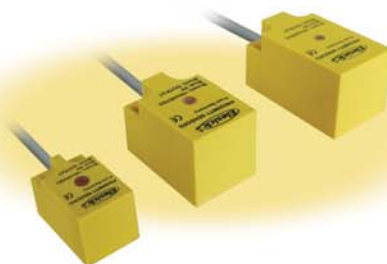


Elesick® Sensors



2012



Elesick® 是一家全球化的公司，在德国和中国设有生产基地，能够及时应对全球快速变化的市场需求。

全球有十多个销售处，确保在全球销售服务和技术支持。



现公司产品已发展到5000多个规格，产品已广泛应用到包括汽车制造、电力、食品饮料、石油化工、冶金、烟草、机械、印刷、造船、采矿、军工等行业，成为深受用户信赖的首选品牌。

我们坚信只有对新产品和解决方案的不断革新，才能够保障客户和合作伙伴的未来利益。



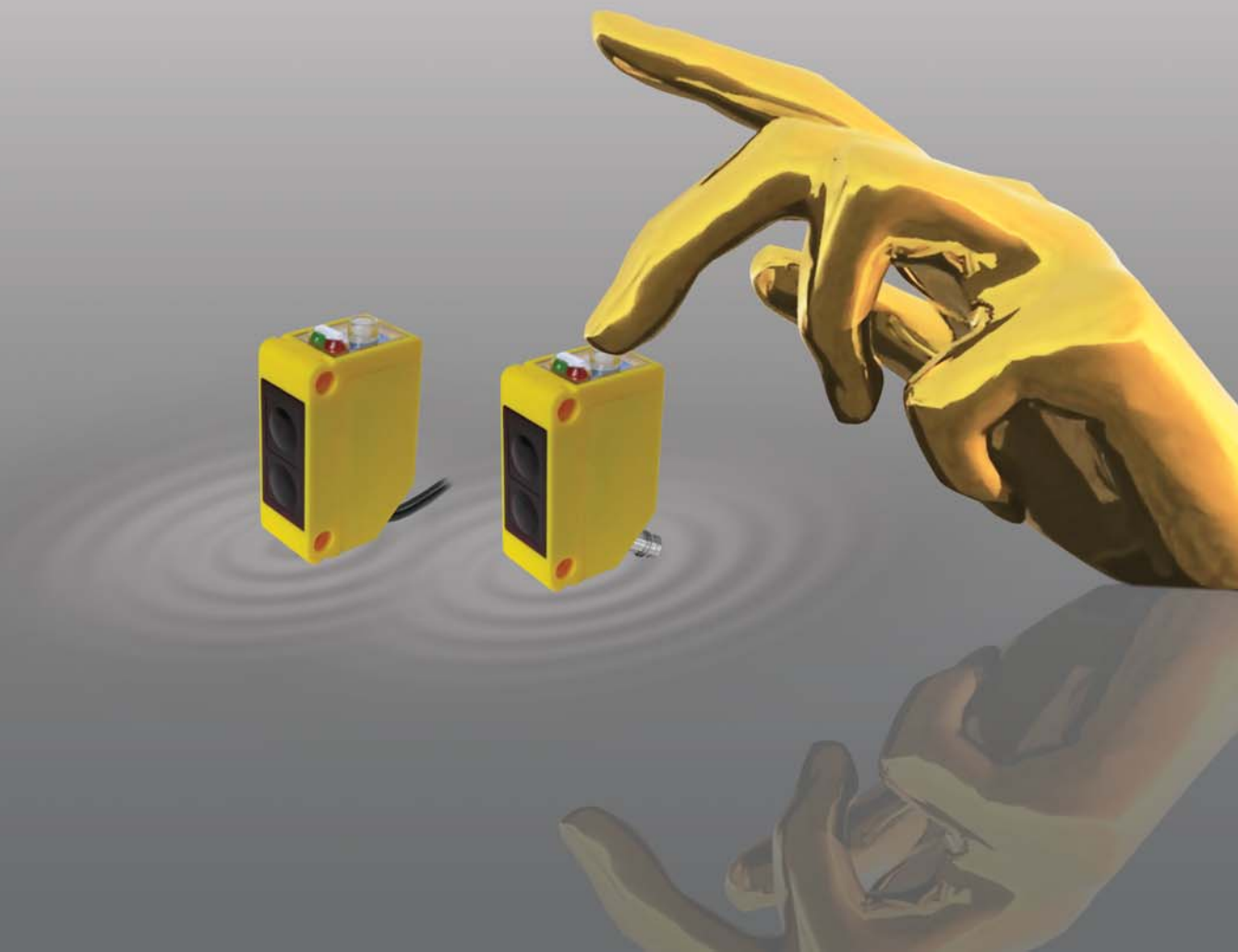


传感器选型目录

TABLE OF CONTENTS

介绍	<ul style="list-style-type: none">■ 工业自动化传感器介绍	02
电感式 接近传感器	<ul style="list-style-type: none">■ 接近传感器选型■ 接近传感器应用术语■ DC 电感式传感器■ AC 电感式传感器■ AC/DC 电感式传感器■ 防爆型 电感式传感器■ 模拟量输出型 电感式传感器■ 金属感应面 电感式传感器■ 抗强磁干扰型 电感式传感器■ 耐高压型 电感式传感器	07 08 A-01 D-01 E-01 F-01 G-01 H-01 I-01 J-01
电容式 接近传感器	<ul style="list-style-type: none">■ 电容式接近传感器	K-01
光电传感器	<ul style="list-style-type: none">■ 光电传感器选型■ 光电传感器应用术语■ 圆柱型光电传感器■ EQ31系列光电传感器■ EQ50系列光电传感器■ EQ80系列光电传感器	L-01 L-02 M-01 N-01 N-03 N-11
安全光幕	<ul style="list-style-type: none">■ EQ28系列安全光幕	O-01
传感器专用连接线	<ul style="list-style-type: none">■ 传感器专用连接线	P-01

EQ31 Series



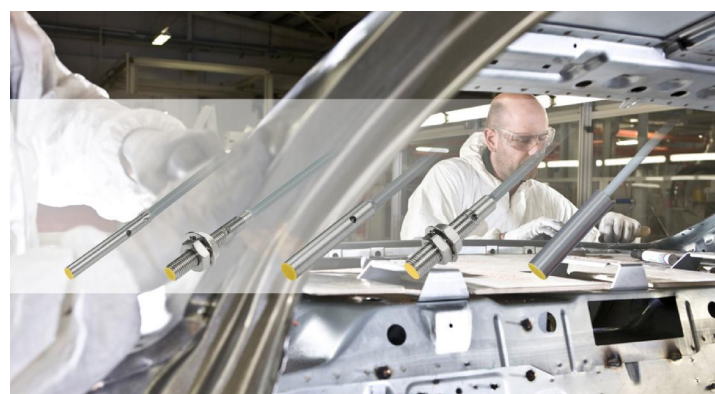
EQ50 Series





超小型接近传感器

产品规格有： $\Phi 3, M4, \Phi 4, M5$ ，这些都是市场上最小的一体化电感式传感器。并且所有的规格都有NPN和PNP型，常开和常闭可以选择。
内置所有的保护功能，如短路保护，过载保护，极性反向保护，过电压保护，EMC保护。



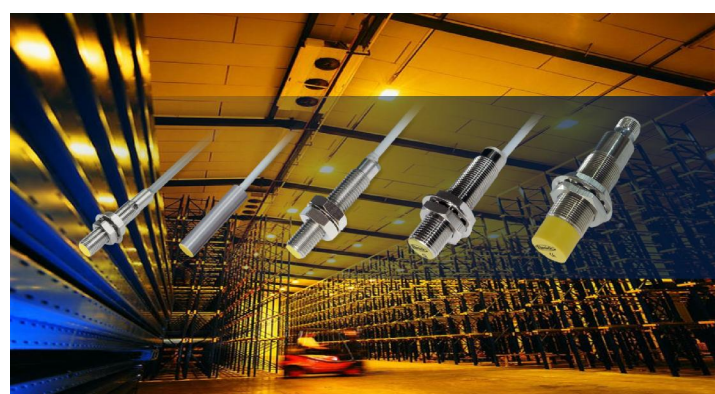
超短型接近传感器

产品规格有： $\Phi 6.5, M8, Q8, M12$ ，产品长度可以做到18mm，并且和其他产品一样有多种输出功能，所有保护功能都内置，如短路保护，过载保护，极性反向保护，过电压保护，EMC保护。



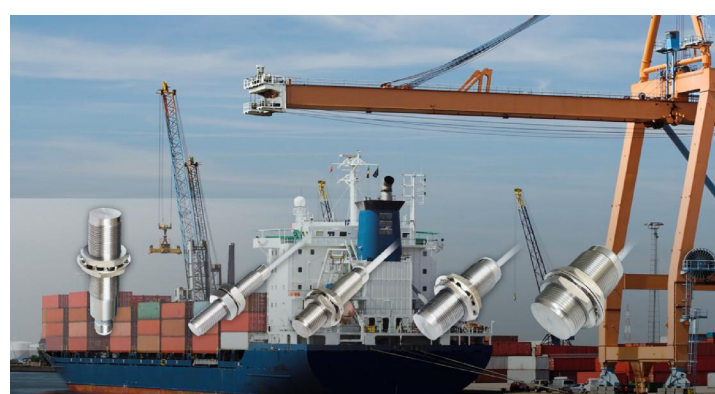
超长检测距离接近传感器

针对于客户要求，我公司加大投入研发出具有超长检测距离的传感器专用线路，现该线路以广泛应用到我公司产品，检测距离可以达到普通距离的三倍，并且产品性能稳定，所有的规格都有NPN和PNP型，常开和常闭可以选择。内置所有的保护功能，如短路保护，过载保护，极性反向保护，过电压保护，EMC保护。



全金属封装型接近传感器

全金属封装 采用包括感应面在内的一体化不锈钢外壳，整个工作期间感应面绝对不受任何液体，气体（不能腐蚀不锈钢）的侵扰。感应面处的材料相对较厚，因此耐压性较好。全不锈钢外壳又使它们比传统传感器更具有抗机械力，因此克服了传统电感式传感器易被撞坏的弱点。其他性能与传统传感器一致，可以全面替换传统电感式传感器。





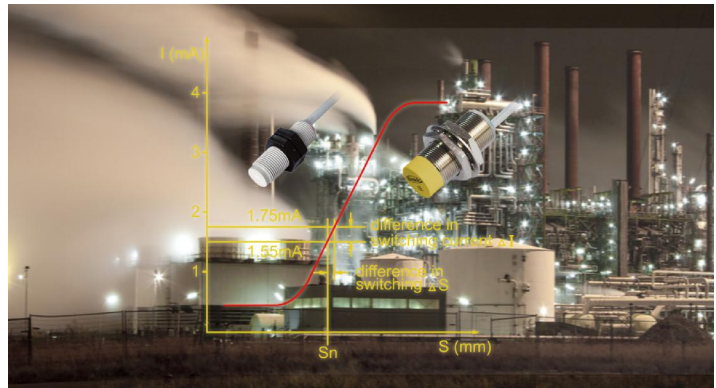
抗强磁干扰型接近传感器

抗强磁干扰系列传感器采用无铁芯的结构，使其具有良好的抗强磁干扰的性能。外壳采用特殊的外壳，如Teflon涂层而可用于强磁的焊接场合，如轧钢厂、汽车生产线、机械加工、压铸机等。
产品规格齐全有：M8,M12,M12,M18,M30和Q型系列。



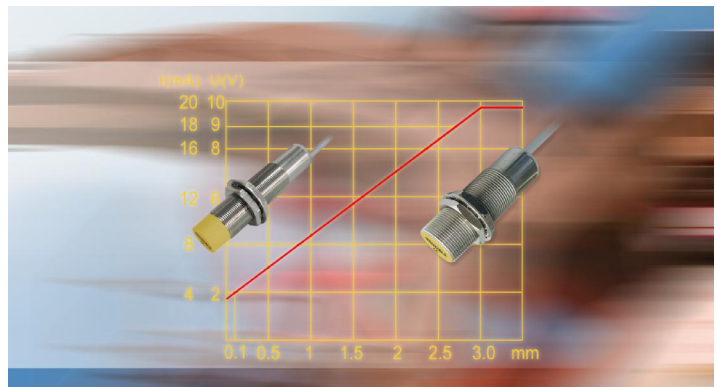
防爆型接近传感器

NAMUR型接近传感器采用本质安全型防爆方法，即工作电压和电流保持在足够低的水平能够应用在防爆炸性的危险场合。
产品规格齐全有：M8,M12,M12,M18,M30和Q型系列。



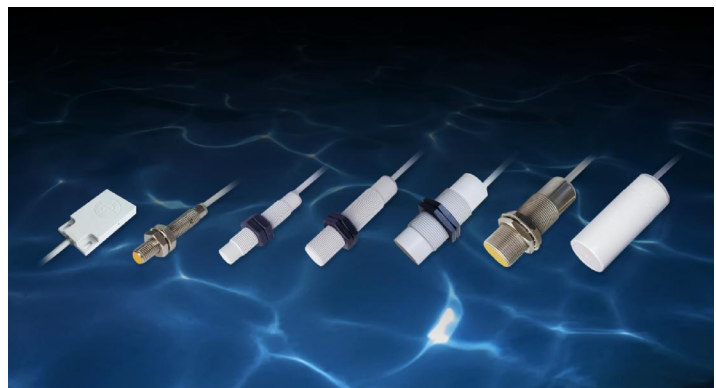
模拟量输出型接近传感器

此系列的传感器能把离金属目标的距离转变成成比例的电流(电压)输出信号。随着检测距离的变化，能在输出端提供0-10V, 0-20mA, 4-20mA的标准模拟信号。
广泛应用于距离测量，厚度测量。



电容型接近传感器

电容式传感器有圆柱型和表面安装型不同外形的产品，交流或直流供电可选。传感器提供1...40mm不同感应距离，所有产品带螺旋电位器，可以用来透过容器检测液体或颗粒状产品。

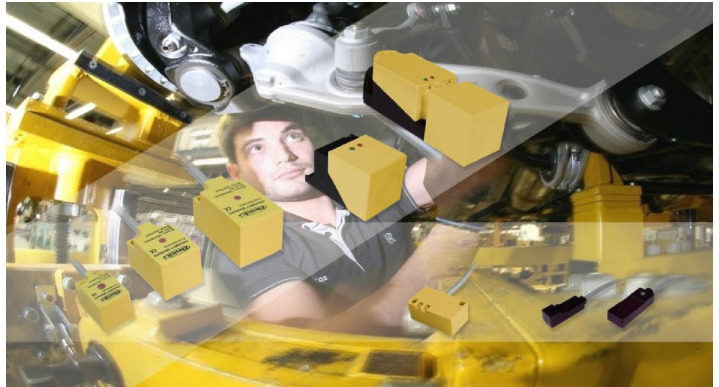




产品简介

Q型接近传感器

外壳材质：塑料PBT；包括Q8, Q10, Q12, Q18, Q25, Q30, Q40, Q40s。有出线，插接件和端子连接方式可选。Q40, Q40s型产品的检测面能够调节至多个方向，完全满足各种现场安装的需要，也是比较流行的外形；通过螺丝钉固定，具有比较大的检测面，检测距离较远。



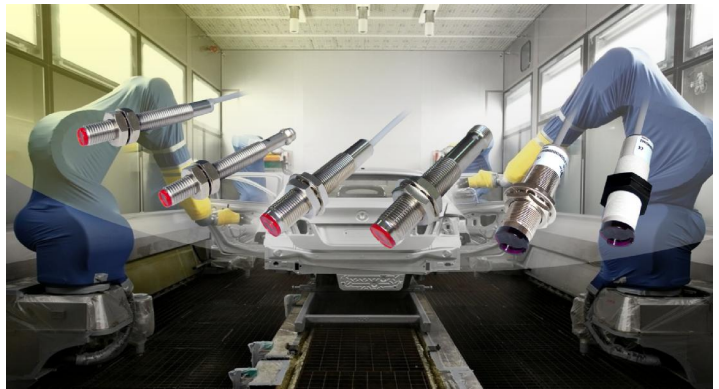
耐高压接近传感器

耐高压接近传感器感应面采用较厚的瓷质材料，整个产品组件安装在不受压的外壳内，有效保护内部元件又能达到较长的检测距离。感应面磁盘处外壳采用热处理技术压紧磁盘，使其达到很好的密封效果。适合运用到动态高压环境中。



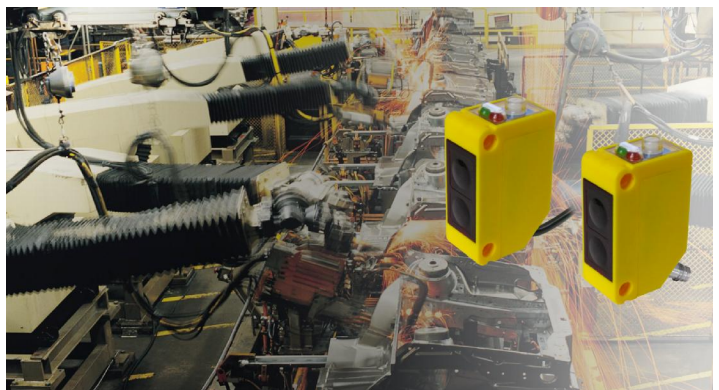
圆柱型光电传感器

圆柱型光电拥有各种型号和尺寸，如M8, M12, M30等。对射型，漫反射型和镜面反射型可选。多种输出可选择。多种距离可以选择，最长检测距离达200米。



EQ31系列紧凑型光电传感器

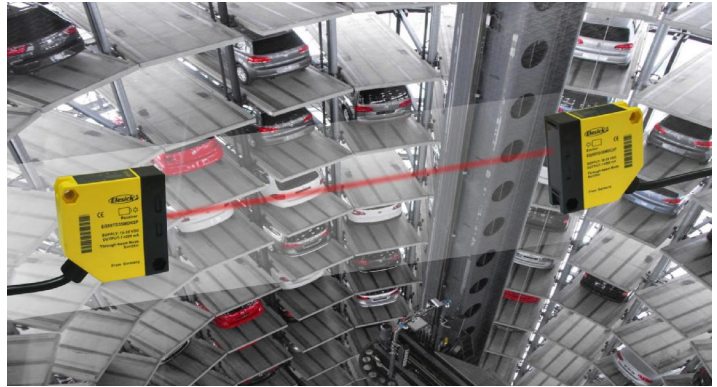
EQ31系列产品外壳最大尺寸只有31MM，可以安装在更小的空间。产品内部线路采用树脂灌封，防水性更好，甚至可以在水中使用。规格齐全：对射型、漫反射型、镜面反射型。感应距离可以根据现场需要定制。





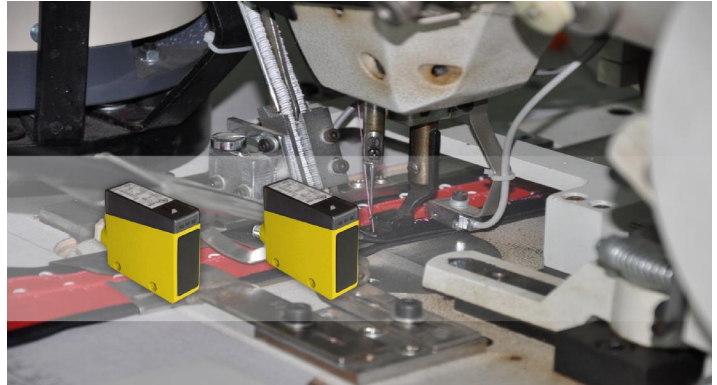
EQ50系列经济型光电传感器

EQ50系列外壳尺寸:50x50x18mm, ABS材质, 硬度高坚固耐用。
 电压供电: DC 10-30V 和 12-240VDC/20-240VAC可选。
 输出: 晶体管输出型和高容量3A 250VAC继电器输出型可选。
 产品内部线路采用树脂灌封, 防水性更好, 甚至可以在水中使用。



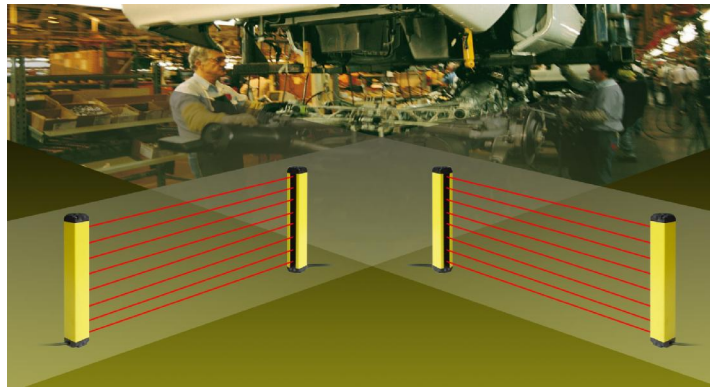
EQ80系列光电传感器

EQ80系列外壳尺寸:81x65x25mm, ABS材质, 硬度高坚固耐用。
 电压供电: DC 10-30V 和 12-240VDC/20-240VAC可选。
 输出: 晶体管输出型和高容量3A250VAC继电器输出型可选。
 具有延时功能, 延时时间0.1s-7s



EQ28系列安全光幕

EQ28系列安全光幕多规格, 多输出, 8至32路可选。
 加厚铝合金外壳设计, 安装更可靠。
 超长7米感应距离。
 采用同步信号控制, 并排安装互不干扰。



传感器专用连接线

传感器专用连接线有M8 Pico-style、M12 Euro-style、M12 Micro-style可选。





YOUR IDEAL PARTNER

你理想的合作伙伴

我们的策略明确且极具挑战性：

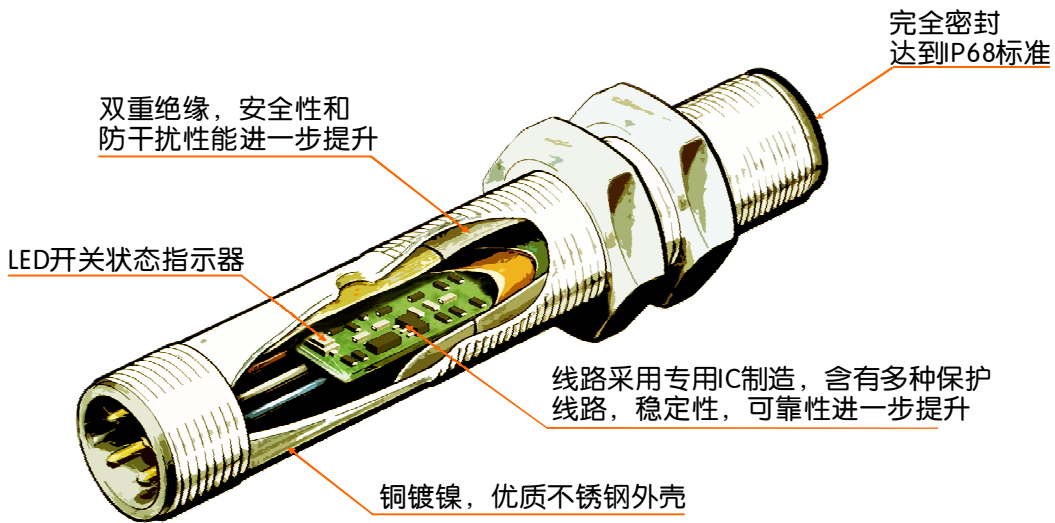
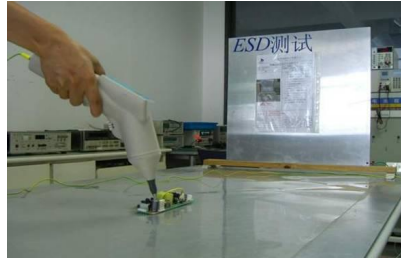
我们要给客户最好、最快捷、最灵活、最可靠的产品。

遵循这一宗旨，我们的产品在全世界确保了工业设备高效、高质量和安全的运行。

严格的质量标准贯彻于传感器的每一个生产过程中，所有产品均达到ISO9001质量标准，其品质和可靠性得到各国工业界的认可，因此被应用于各行各业。



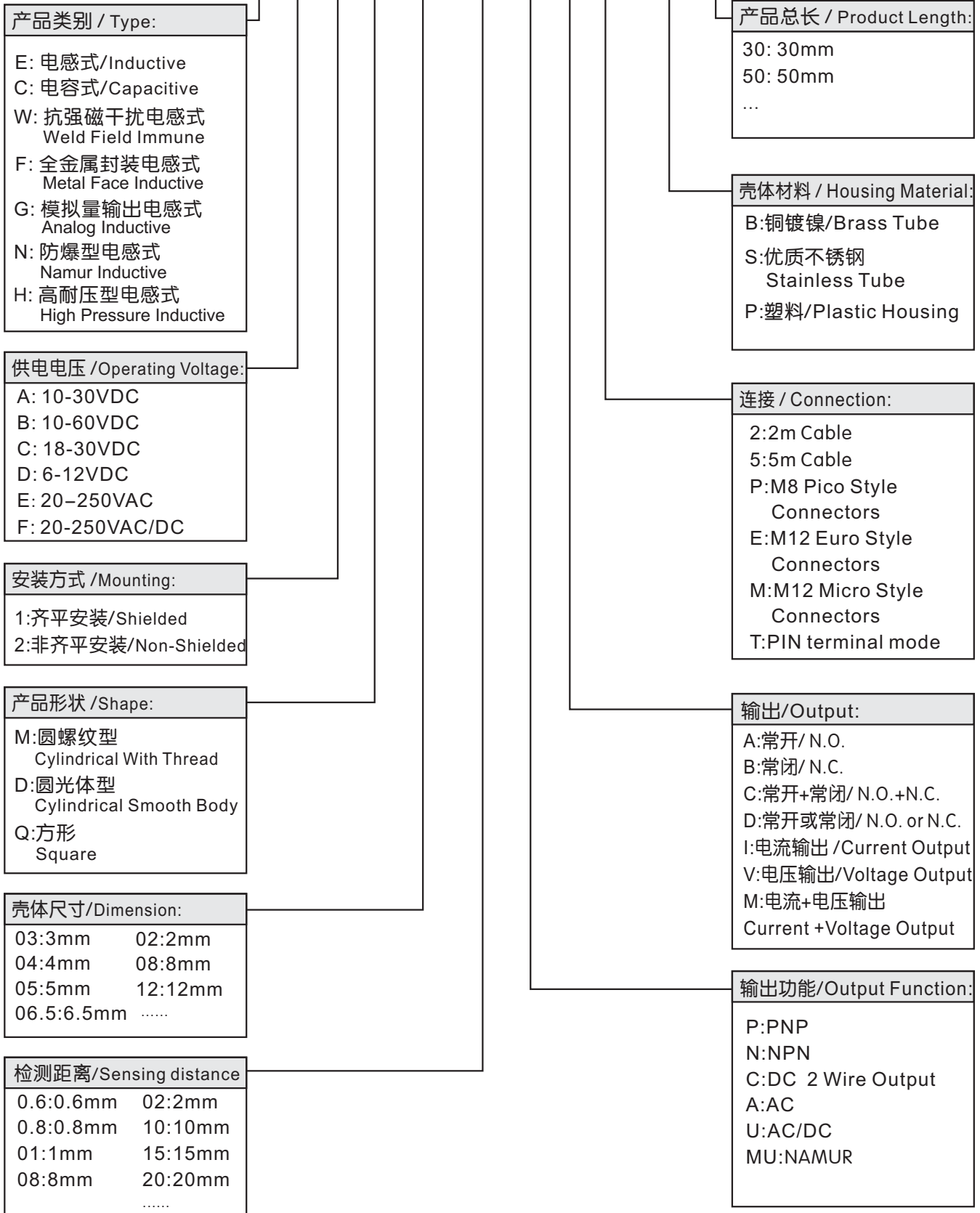
只有高质量的元器件供应商才能列入供应链，在每个产品投入生产之前，还要经过严格检测，在生产过程中均有中间检测，在产品包装出货之前还要对每个产品进行通电高低温老化检测，全面性能检测，记录，分析所有重要参数，生产过程对每个产品进行电脑跟踪，确保品质。



EMC: IMMUNE>3V/m ; EFT>1KV; ESD>8KV
Shock: IEC30647-5-2, Part 7.4.1
Vibration: IEC30647-5-2, Part 7.4.2

接近传感器选型

E A 1 M 12 02 N A 2 - B □



接近传感器术语介绍

接近传感器工作原理

电感式接近传感器主要是利用电路线圈振荡器产生高频磁场，有感应面向外发送。进入这个区域的任何金属物都会吸收能量，被内置电子设备探测并计算出吸收能量的多少，铁、钢、镍、钴等金属能吸收大部分的能量，这些金属能获得最大的检测距离。导电性好的非铁磁金属，如铝吸收能量较少，因此检测距离会比铁衰减25%–45%。

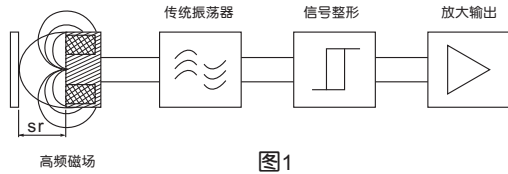


图1

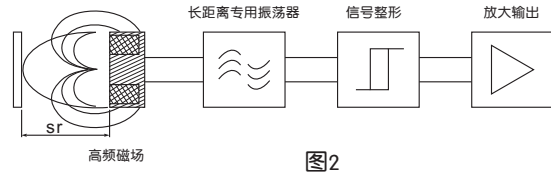


图2

电感式接近传感器内部振荡器分为两种，一种是传统振荡器（如图1），这种传统振荡器产品已广泛应用于市场，但它的缺点也是明显的，不能获得较长的检测距离。现公司研发出可以使检测距离达到普通距离的2到3倍的振荡器，我们称之为长距离专用振荡器（如图2），广泛应用于长距离产品。

标准检测体

接近传感器的检测距离因被检测体的大小、材质的不同而不同，随着被检测物体的增大检测距离加长。而当体积达到某一值时，检测距离不在随检测体的增大而加长，成一固定值。

标准的检测体在CENELEC En50010标准里有规定，材料为铁（FE37），其厚度1mm的正方形。

普通距离

产品尺寸(mm)	检测距离(mm)	Fe37 尺寸(mm)
8	1	8(L)x8(W)x1(H)
8	2	8(L)x8(W)x1(H)
12	2	12(L)x12(W)x1(H)
12	4	12(L)x12(W)x1(H)
18	5	18(L)x18(W)x1(H)
18	8	24(L)x24(W)x1(H)
30	10	30(L)x30(W)x1(H)
30	15	45(L)x45(W)x1(H)

两倍距离

产品尺寸(mm)	检测距离(mm)	Fe37 尺寸(mm)
8	2	8(L)x8(W)x1(H)
8	4	12(L)x12(W)x1(H)
12	4	12(L)x12(W)x1(H)
12	8	24(L)x24(W)x1(H)
18	8	24(L)x24(W)x1(H)
18	16	48(L)x48(W)x1(H)
30	16	48(L)x48(W)x1(H)
30	25	75(L)x75(W)x1(H)

三倍距离

产品尺寸(mm)	检测距离(mm)	Fe37 尺寸(mm)
8	3	9(L)x9(W)x1(H)
8	6	18(L)x18(W)x1(H)
12	6	18(L)x18(W)x1(H)
12	10	30(L)x30(W)x1(H)
18	12	36(L)x36(W)x1(H)
18	20	60(L)x60(W)x1(H)
30	22	66(L)x66(W)x1(H)
30	40	120(L)x120(W)x1(H)

标准检测体

检测体影响传感器感应距离的因素。检测体的材料的性质起了重要作用，这可以用衰减系数来描述。衰减系数是指某一种材料的动作距离相对于铁（FE37）减少了多少。衰减系数越小，则对于某种特定材料的动作距离就越小。对于电容传感器特征参数是相对介电常数。

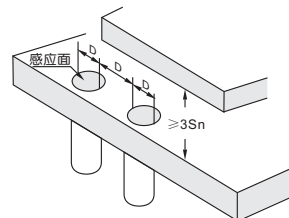
材料	衰减因子
铁	1.0
铜	0.25~0.45
黄铜	0.35~0.50
铝	0.30~0.45
不锈钢	0.60~1.00
镍	0.65~0.75
铸铁	0.93~1.05

产品安装使用

传感器的感应距离会因环境温度变化、电压变动等周围条件的变化稍有变动。因此，为使传感器稳定工作，检测体的最大接近位置需小于感应距离。使用标准检测时，设定实际感应距离应在动作距离的80%以下。此外，在检测体的形状小于标准检测体或使用铁以外的检测体时，因感应距离缩短，故设定实际感应距离也必须相应缩短。详细请参照规格书。

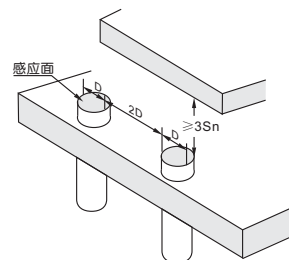
齐平安装

传感器安装时感应面可以和金属表面齐平。开关表面到其对面的金属物体的距离要 $\geq 3S_n$ ，邻近的两个开关间的距离必须 $\geq D$



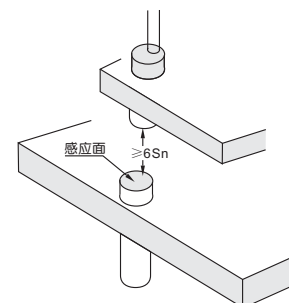
非齐平安装

可以根据它们的头部来鉴别，非齐平式的感应表面周围的区域没有金属外壳。感应表面到金属安装介质的距离必须 $\geq 2S_n$ 。感应表面到对面的金属物体的距离必须 $\geq 3S_n$ ，另外两个邻近的接近开关的距离必须 $\geq 2d$ 。

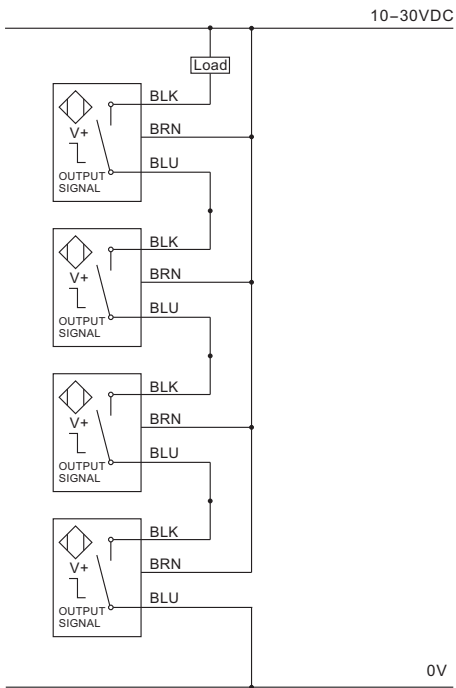


传感器开关相对安装

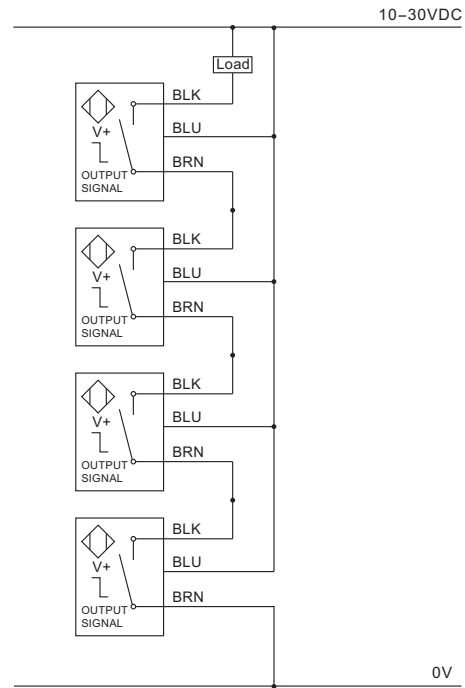
对于相对安装的接近传感器两个感应面之间的最小距离必须大于6倍的检测距离。



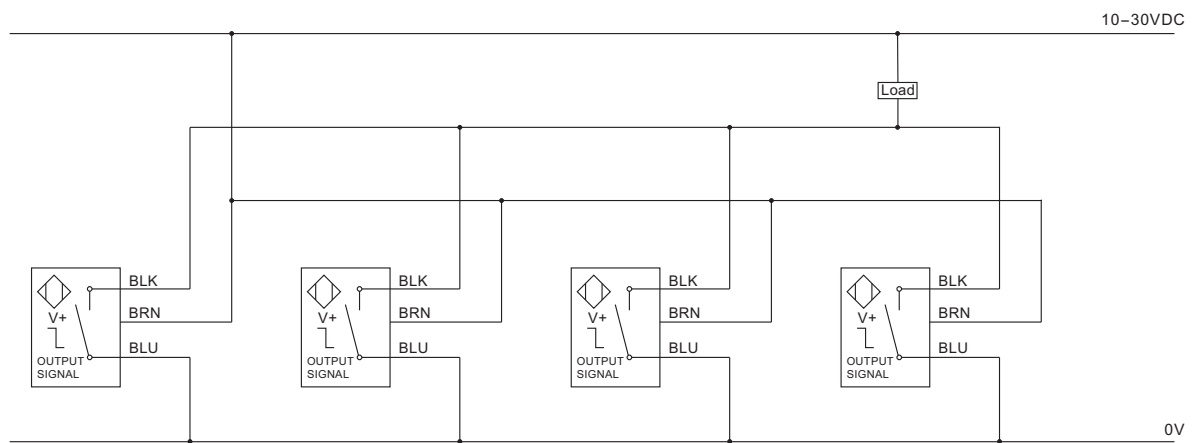
NPN输出型串联使用



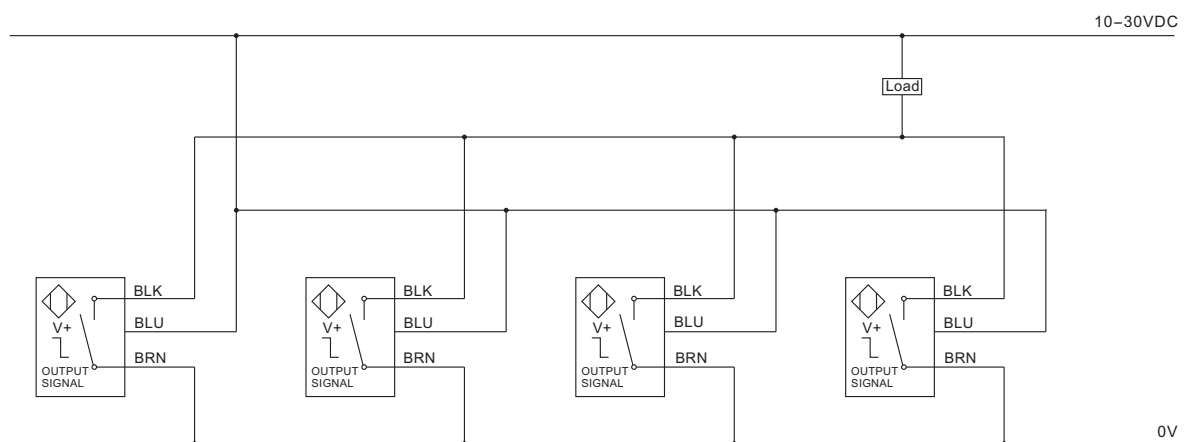
PNP输出型串联使用



NPN输出型并联使用



PNP输出型并联使用



接近传感器技术参数

DC 电感式接近传感器3线、4线式技术参数表

电源电压	10...30 VDC
开关点偏移	1 0%
负载电流	200mA
压降	1.5V
消耗电流	10mA
回差范围	1...10%
重复精度	1%
输出指示	红色 LED 或 黄色 LED
极性保护	yes
浪涌保护	yes
短路保护	yes
环境温度	-25...+70°C
环境湿度	35...95%
防护等级	Ip67
耐高压	1000V/AC 50/60Hz 60s
绝缘阻抗	≥50M Ω (500VDC)
耐振动	复振幅1.5mm 10...50Hz(X,Y,Z方向各2小时)
外壳材料	铜镀镍或不锈钢或PBT
连接方式	2m PVC , PUR电缆或M8, M12 连接器

DC 电感式接近传感器 2线式 技术参数表

电源电压	10...60 VDC
开关点偏移	1 0%
负载电流	100mA
压降	6V
漏电流	0.8mA
回差范围	1...10%
重复精度	1%
输出指示	红色 LED 或 黄色 LED
极性保护	yes
浪涌保护	yes
短路保护	yes
环境温度	-25...+70°C
环境湿度	35...95%
防护等级	Ip67
耐高压	1000V/AC 50/60Hz 60s
绝缘阻抗	≥50M Ω (500VDC)
耐振动	复振幅1.5mm 10...50Hz(X,Y,Z方向各2小时)
外壳材料	铜镀镍或不锈钢或PBT
连接方式	2m PVC , PUR电缆或M8, M12 连接器

AC 电感式接近传感器技术参数表

电源电压	20...250 VAC
开关点偏移	1 0%
负载电流	400mA
压降	8V
消耗电流	5mA
回差范围	1...10%
重复精度	1%
输出指示	红色 LED 或 黄色 LED
极性保护	-
浪涌保护	yes
短路保护	-
环境温度	-25...+70°C
环境湿度	35...95%
防护等级	Ip67
耐高压	1000V/AC 50/60Hz 60s
绝缘阻抗	≥50M Ω (500VDC)
耐振动	复振幅1.5mm 10...50Hz(X,Y,Z方向各2小时)
外壳材料	铜镀镍或不锈钢或PBT
连接方式	2m PVC , PUR电缆或M12 连接器

AC/DC电感式接近传感器 技术参数表

电源电压	20-250VAC/DC
开关点偏移	1 0%
负载电流	AC: < 400mA, DC: < 100mA
压降	8V
漏电流	5mA
回差范围	1...10%
重复精度	1%
输出指示	红色 LED 或 黄色 LED
极性保护	-
浪涌保护	yes
短路保护	-
环境温度	-25...+70°C
环境湿度	35...95%
防护等级	Ip67
耐高压	1000V/AC 50/60Hz 60s
绝缘阻抗	≥50M Ω (500VDC)
耐振动	复振幅1.5mm 10...50Hz(X,Y,Z方向各2小时)
外壳材料	铜镀镍或不锈钢或PBT
连接方式	2m PVC , PUR电缆或M8, M12 连接器

超小圆柱型-D3, M4, D4, M5



特点描述/ Feature Description

- 超小外观适用于狭小安装空间
Small volume for narrowness space
- 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- 外壳材料: 不锈钢
Housing material : Stainless steel
- 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EA1D030.6NA2-S□	D3	0.6mm	●	NPN	N.O.	10-30V	100mA	2KHZ	-25℃~+70℃	2M PUR Cable	1
EA1D030.6NB2-S□	D3	0.6mm	●	NPN	N.C.	10-30V	100mA	2KHZ	-25℃~+70℃	2M PUR Cable	1
EA1D030.6PA2-S□	D3	0.6mm	●	PNP	N.O.	10-30V	100mA	2KHZ	-25℃~+70℃	2M PUR Cable	1
EA1D030.6PB2-S□	D3	0.6mm	●	PNP	N.C.	10-30V	100mA	2KHZ	-25℃~+70℃	2M PUR Cable	1
EA1M030.6NA2-S□	M4	0.6mm	●	NPN	N.O.	10-30V	100mA	2KHZ	-25℃~+70℃	2M PUR Cable	2
EA1M030.6NB2-S□	M4	0.6mm	●	NPN	N.C.	10-30V	100mA	2KHZ	-25℃~+70℃	2M PUR Cable	2
EA1M030.6PA2-S□	M4	0.6mm	●	PNP	N.O.	10-30V	100mA	2KHZ	-25℃~+70℃	2M PUR Cable	2
EA1M030.6PB2-S□	M4	0.6mm	●	PNP	N.C.	10-30V	100mA	2KHZ	-25℃~+70℃	2M PUR Cable	2
EA1D040.8NA2-S□	D4	0.8mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PUR Cable	3
EA1D040.8NB2-S□	D4	0.8mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PUR Cable	3
EA1D040.8PA2-S□	D4	0.8mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PUR Cable	3
EA1D040.8PB2-S□	D4	0.8mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PUR Cable	3
EA1M050.8NA2-S□	M5	0.8mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PUR Cable	4
EA1M050.8NB2-S□	M5	0.8mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PUR Cable	4
EA1M050.8PA2-S□	M5	0.8mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PUR Cable	4
EA1M050.8PB2-S□	M5	0.8mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PUR Cable	4
EA1M050.8NAP-S□	M5	0.8mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	5
EA1M050.8NBP-S□	M5	0.8mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	5
EA1M050.8PAP-S□	M5	0.8mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	5
EA1M050.8PBP-S□	M5	0.8mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	5

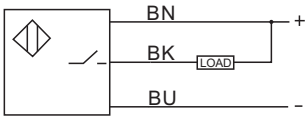
长距离选型/Long Sensing:

EA1D030.8NA2-S□	D3	0.8mm	●	NPN	N.O.	10-30V	100mA	2KHZ	-25℃~+70℃	2M PUR Cable	1
EA1D030.8NB2-S□	D3	0.8mm	●	NPN	N.C.	10-30V	100mA	2KHZ	-25℃~+70℃	2M PUR Cable	1
EA1D030.8PA2-S□	D3	0.8mm	●	PNP	N.O.	10-30V	100mA	2KHZ	-25℃~+70℃	2M PUR Cable	1
EA1D030.8PB2-S□	D3	0.8mm	●	PNP	N.C.	10-30V	100mA	2KHZ	-25℃~+70℃	2M PUR Cable	1
EA1M030.8NA2-S□	M4	0.8mm	●	NPN	N.O.	10-30V	100mA	2KHZ	-25℃~+70℃	2M PUR Cable	2
EA1M030.8NB2-S□	M4	0.8mm	●	NPN	N.C.	10-30V	100mA	2KHZ	-25℃~+70℃	2M PUR Cable	2
EA1M030.8PA2-S□	M4	0.8mm	●	PNP	N.O.	10-30V	100mA	2KHZ	-25℃~+70℃	2M PUR Cable	2
EA1M030.8PB2-S□	M4	0.8mm	●	PNP	N.C.	10-30V	100mA	2KHZ	-25℃~+70℃	2M PUR Cable	2
EA1D041.5NA2-S□	D4	1.5mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PUR Cable	3
EA1D041.5NB2-S□	D4	1.5mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PUR Cable	3
EA1D041.5PA2-S□	D4	1.5mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PUR Cable	3
EA1D041.5PB2-S□	D4	1.5mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PUR Cable	3
EA1M051.5NA2-S□	M5	1.5mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PUR Cable	4
EA1M051.5NB2-S□	M5	1.5mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PUR Cable	4
EA1M051.5PA2-S□	M5	1.5mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PUR Cable	4
EA1M051.5PB2-S□	M5	1.5mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PUR Cable	4
EA1M051.5NAP-S□	M5	1.5mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	5
EA1M051.5NBP-S□	M5	1.5mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	5
EA1M051.5PAP-S□	M5	1.5mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	5
EA1M051.5PBP-S□	M5	1.5mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	5

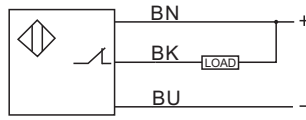
电气接线图 Connection diagram

电缆接线 / Connection diagrams

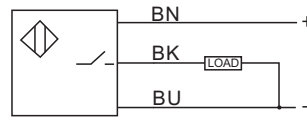
DC 3 Wire NPN-N.O.



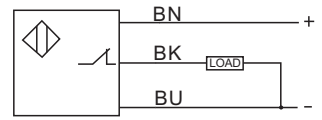
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

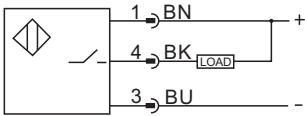


DC 3 Wire PNP-N.C.

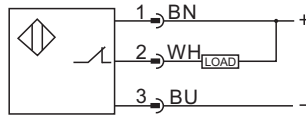


插接件接线 / Connection diagrams

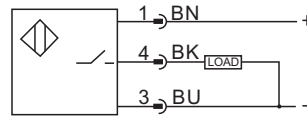
DC 3 Wire NPN-N.O.



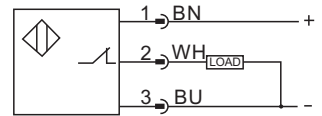
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

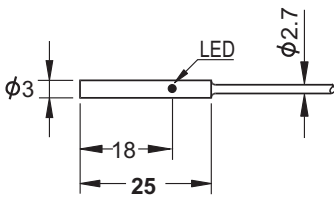


DC 3 Wire PNP-N.C.

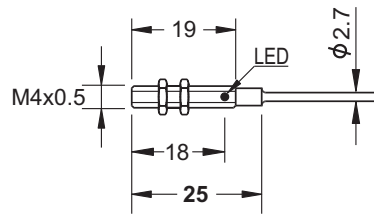


尺寸图 Dimension drawing (unit: mm)

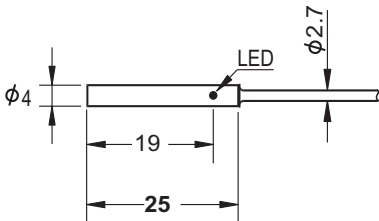
1



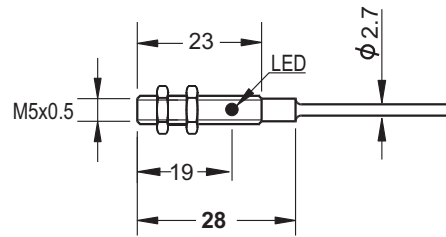
2



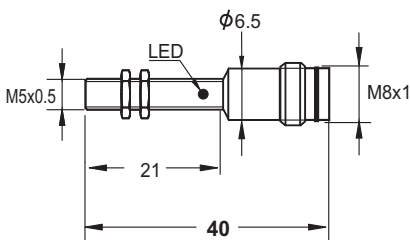
3



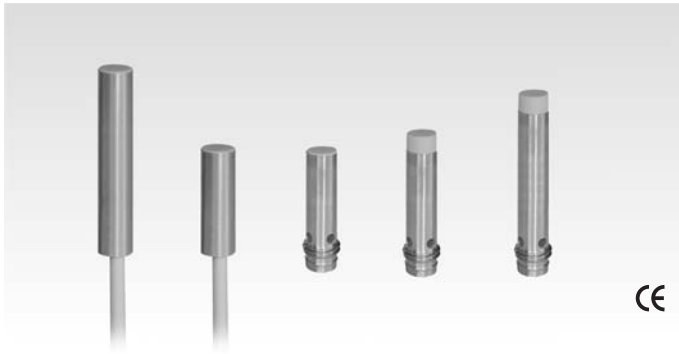
4



5



金属圆柱型3线式-D6.5



特点描述/ Feature Description

- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: 不锈钢
Housing material : Stainless steel
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EA1D6.501NA2-S□	D6.5	1mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1D6.501NB2-S□	D6.5	1mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1D6.501PA2-S□	D6.5	1mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1D6.501PB2-S□	D6.5	1mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA2D6.502NA2-S□	D6.5	2mm	○	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EA2D6.502NB2-S□	D6.5	2mm	○	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EA2D6.502PA2-S□	D6.5	2mm	○	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EA2D6.502PB2-S□	D6.5	2mm	○	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EA1D6.501NAP-S□	D6.5	1mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
EA1D6.501NBP-S□	D6.5	1mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
EA1D6.501PAP-S□	D6.5	1mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
EA1D6.501PBP-S□	D6.5	1mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
EA2D6.502NAP-S□	D6.5	2mm	○	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	4
EA2D6.502NBP-S□	D6.5	2mm	○	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	4
EA2D6.502PAP-S□	D6.5	2mm	○	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	4
EA2D6.502PBP-S□	D6.5	2mm	○	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	4

两倍距离选型/Extended Sensing:

EA1D6.502NA2-S□	D6.5	2mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1D6.502NB2-S□	D6.5	2mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1D6.502PA2-S□	D6.5	2mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1D6.502PB2-S□	D6.5	2mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA2D6.504NA2-S□	D6.5	4mm	○	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA2D6.504NB2-S□	D6.5	4mm	○	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA2D6.504PA2-S□	D6.5	4mm	○	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA2D6.504PB2-S□	D6.5	4mm	○	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA1D6.502NAP-S□	D6.5	2mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
EA1D6.502NBP-S□	D6.5	2mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
EA1D6.502PAP-S□	D6.5	2mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
EA1D6.502PBP-S□	D6.5	2mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
EA2D6.504NAP-S□	D6.5	4mm	○	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	4
EA2D6.504NBP-S□	D6.5	4mm	○	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	4
EA2D6.504PAP-S□	D6.5	4mm	○	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	4
EA2D6.504PBP-S□	D6.5	4mm	○	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	4

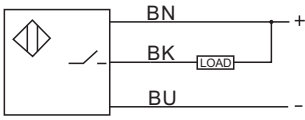
三倍距离选型/Long Sensing:

EA1D6.503NA2-S□	D6.5	3mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1D6.503NB2-S□	D6.5	3mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1D6.503PA2-S□	D6.5	3mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1D6.503PB2-S□	D6.5	3mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA2D6.506NA2-S□	D6.5	6mm	○	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA2D6.506NB2-S□	D6.5	6mm	○	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA2D6.506PA2-S□	D6.5	6mm	○	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA2D6.506PB2-S□	D6.5	6mm	○	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA1D6.503NAP-S□	D6.5	3mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	3
EA1D6.503NBP-S□	D6.5	3mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	3
EA1D6.503PAP-S□	D6.5	3mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	3
EA1D6.503PBP-S□	D6.5	3mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	3
EA2D6.506NAP-S□	D6.5	6mm	○	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	M8 Pico style	4
EA2D6.506NBP-S□	D6.5	6mm	○	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M8 Pico style	4
EA2D6.506PAP-S□	D6.5	6mm	○	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	M8 Pico style	4
EA2D6.506PBP-S□	D6.5	6mm	○	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M8 Pico style	4

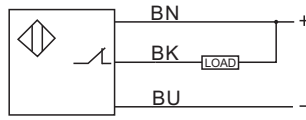
电气接线图 Connection diagram

电缆接线 / Connection diagrams

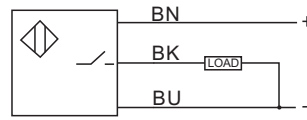
DC 3 Wire NPN-N.O.



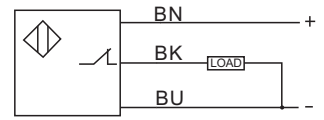
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

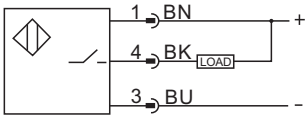


DC 3 Wire PNP-N.C.

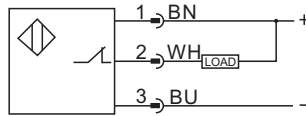


插插件接线 / Connection diagrams

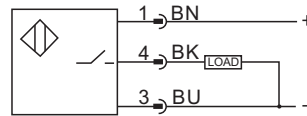
DC 3 Wire NPN-N.O.



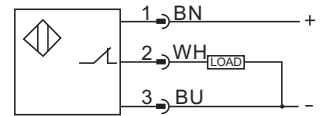
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

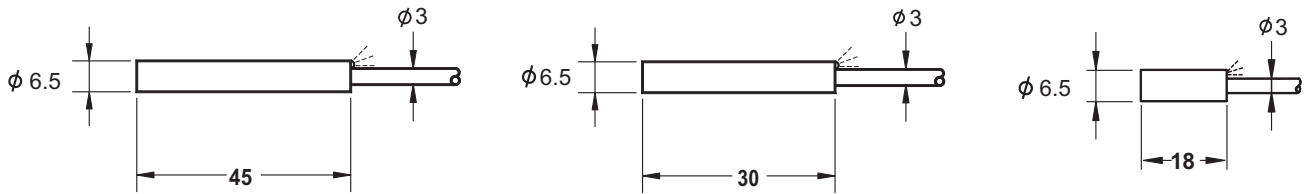


DC 3 Wire PNP-N.C.

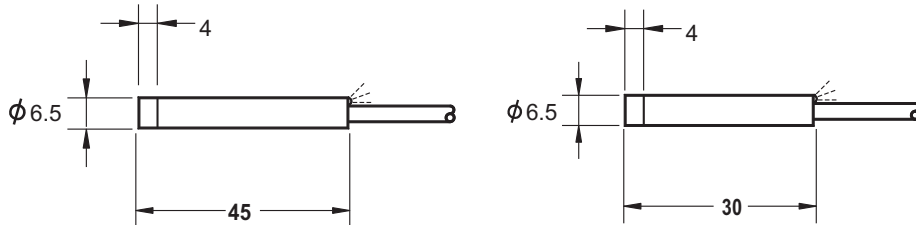


尺寸图 Dimension drawing (unit: mm)

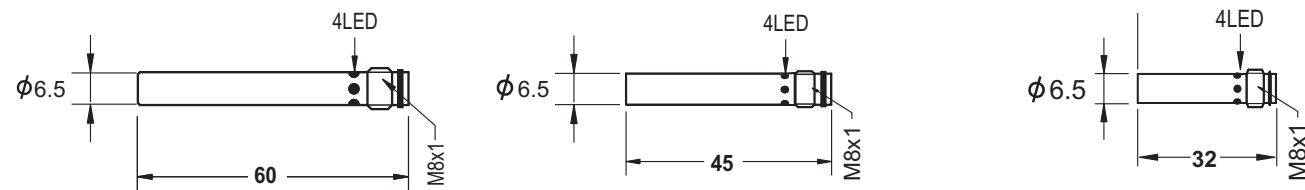
1



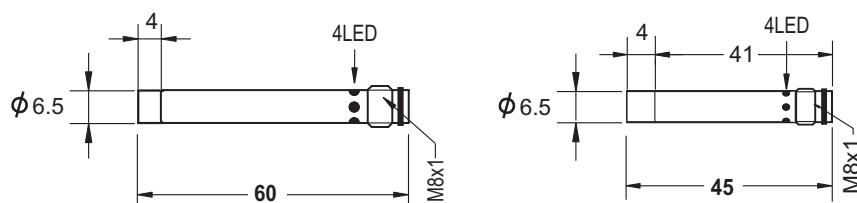
2



3



4



金属圆柱型 3线式-M8



特点描述/ Feature Description

- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: 不锈钢或铜镀镍
Housing material : Stainless steel or Nickel plated brass
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)



普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EA1M0801NA2-S □	M8	1mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1M0801NB2-S □	M8	1mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1M0801PA2-S □	M8	1mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1M0801PB2-S □	M8	1mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA2M0802NA2-S □	M8	2mm	○	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EA2M0802NB2-S □	M8	2mm	○	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EA2M0802PA2-S □	M8	2mm	○	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EA2M0802PB2-S □	M8	2mm	○	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EA1M0801NAP-S □	M8	1mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
EA1M0801NBP-S □	M8	1mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
EA1M0801PAP-S □	M8	1mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
EA1M0801PBP-S □	M8	1mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
EA2M0802NAP-S □	M8	2mm	○	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	4
EA2M0802NBP-S □	M8	2mm	○	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	4
EA2M0802PAP-S □	M8	2mm	○	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	4
EA2M0802PBP-S □	M8	2mm	○	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	4

两倍距离选型/Extended Sensing:

EA1M0802NA2-S □	M8	2mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1M0802NB2-S □	M8	2mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1M0802PA2-S □	M8	2mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1M0802PB2-S □	M8	2mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA2M0804NA2-S □	M8	4mm	○	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA2M0804NB2-S □	M8	4mm	○	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA2M0804PA2-S □	M8	4mm	○	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA2M0804PB2-S □	M8	4mm	○	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA1M0802NAP-S □	M8	2mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
EA1M0802NBP-S □	M8	2mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
EA1M0802PAP-S □	M8	2mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
EA1M0802PBP-S □	M8	2mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
EA2M0804NAP-S □	M8	4mm	○	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	4
EA2M0804NBP-S □	M8	4mm	○	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	4
EA2M0804PAP-S □	M8	4mm	○	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	4
EA2M0804PBP-S □	M8	4mm	○	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	4

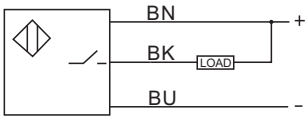
三倍距离选型/Long Sensing:

EA1M0803NA2-S □	M8	3mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1M0803NB2-S □	M8	3mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1M0803PA2-S □	M8	3mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1M0803PB2-S □	M8	3mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA2M0806NA2-S □	M8	6mm	○	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA2M0806NB2-S □	M8	6mm	○	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA2M0806PA2-S □	M8	6mm	○	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA2M0806PB2-S □	M8	6mm	○	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA1M0803NAP-S □	M8	3mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	3
EA1M0803NBP-S □	M8	3mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	3
EA1M0803PAP-S □	M8	3mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	3
EA1M0803PBP-S □	M8	3mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	3
EA2M0806NAP-S □	M8	6mm	○	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	M8 Pico style	4
EA2M0806NBP-S □	M8	6mm	○	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M8 Pico style	4
EA2M0806PAP-S □	M8	6mm	○	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	M8 Pico style	4
EA2M0806PBP-S □	M8	6mm	○	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M8 Pico style	4

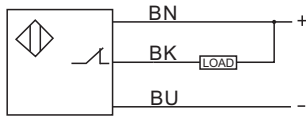
电气接线图 Connection diagram

电缆接线 / Connection diagrams

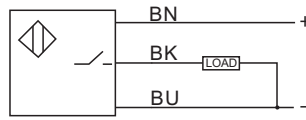
DC 3 Wire NPN-N.O.



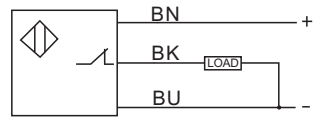
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

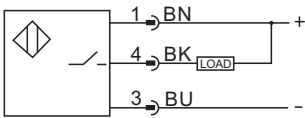


DC 3 Wire PNP-N.C.

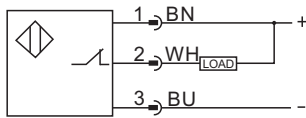


插接件接线 / Connection diagrams

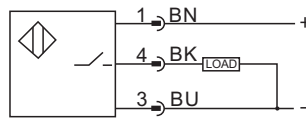
DC 3 Wire NPN-N.O.



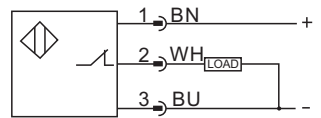
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

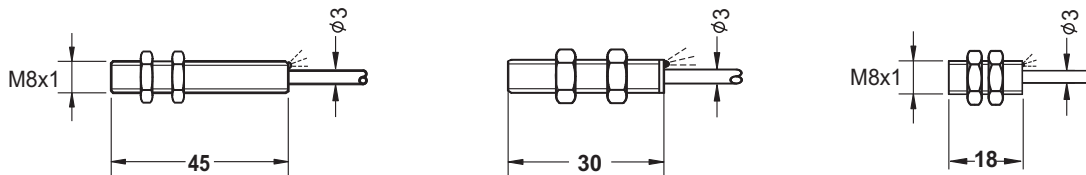


DC 3 Wire PNP-N.C.

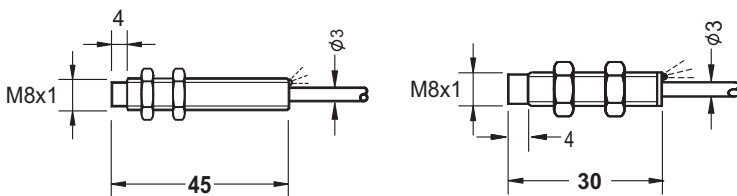


尺寸图 Dimension drawing (unit: mm)

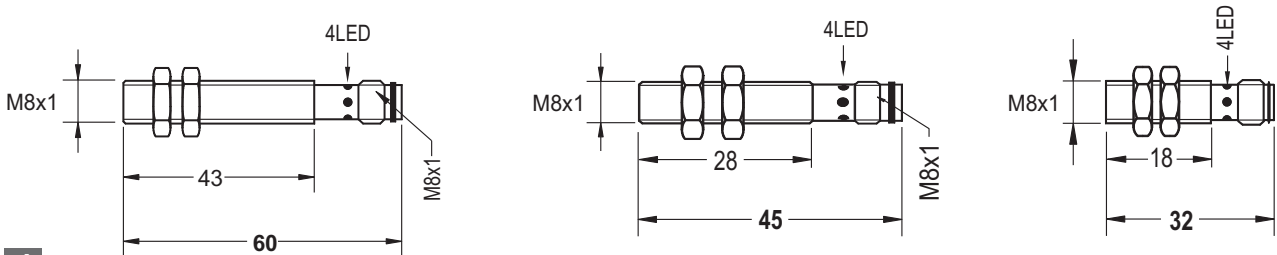
1



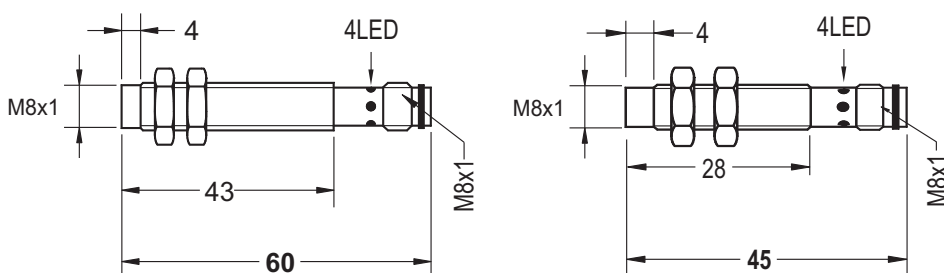
2



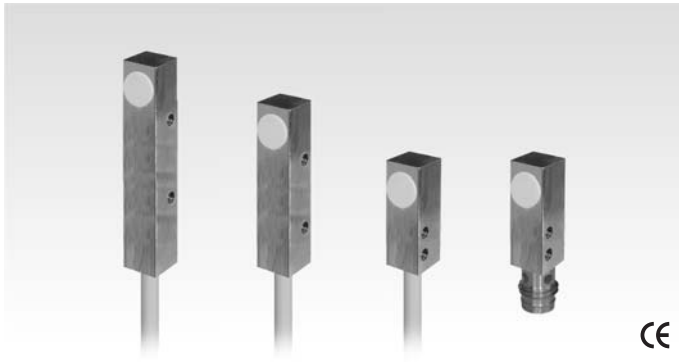
3



4



金属 Q型 3线式-Q8



特点描述/ Feature Description

- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: 铜镀镍
Housing material : Nickel plated brass
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EA1Q0801NA2-S □	Q8	1mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q0801NB2-S □	Q8	1mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q0801PA2-S □	Q8	1mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q0801PB2-S □	Q8	1mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q0801NAP-S □	Q8	1mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	2
EA1Q0801NBP-S □	Q8	1mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	2
EA1Q0801PAP-S □	Q8	1mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	2
EA1Q0801PBP-S □	Q8	1mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	2

两倍距离选型/Extended Sensing:

EA1Q0802NA2-S □	Q8	2mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q0802NB2-S □	Q8	2mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q0802PA2-S □	Q8	2mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q0802PB2-S □	Q8	2mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q0802NAP-S □	Q8	2mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	2
EA1Q0802NBP-S □	Q8	2mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	2
EA1Q0802PAP-S □	Q8	2mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	2
EA1Q0802PBP-S □	Q8	2mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	2

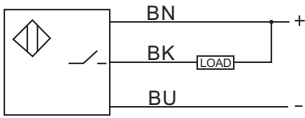
三倍距离选型/Long Sensing:

EA1Q0803NA2-S □	Q8	3mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q0803NB2-S □	Q8	3mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q0803PA2-S □	Q8	3mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q0803PB2-S □	Q8	3mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q0803NAP-S □	Q8	3mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	2
EA1Q0803NBP-S □	Q8	3mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	2
EA1Q0803PAP-S □	Q8	3mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	2
EA1Q0803PBP-S □	Q8	3mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	2

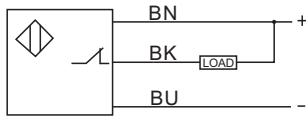
电气接线图 Connection diagram

电缆接线 / Connection diagrams

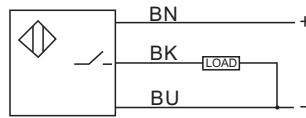
DC 3 Wire NPN-N.O.



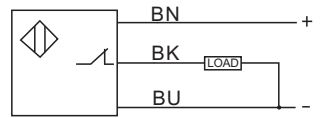
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

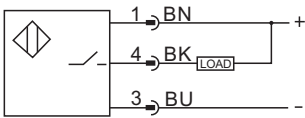


DC 3 Wire PNP-N.C.

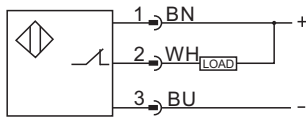


插接件接线 / Connection diagrams

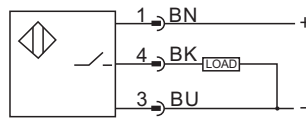
DC 3 Wire NPN-N.O.



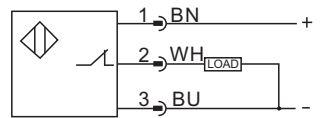
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

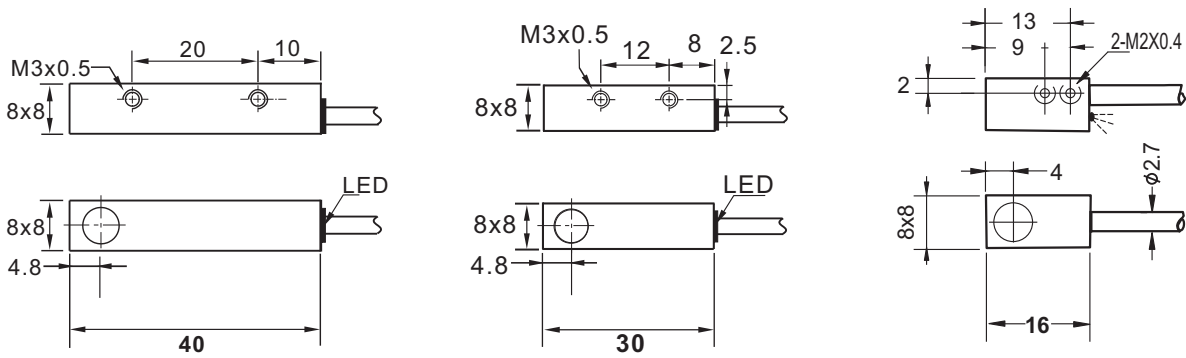


DC 3 Wire PNP-N.C.

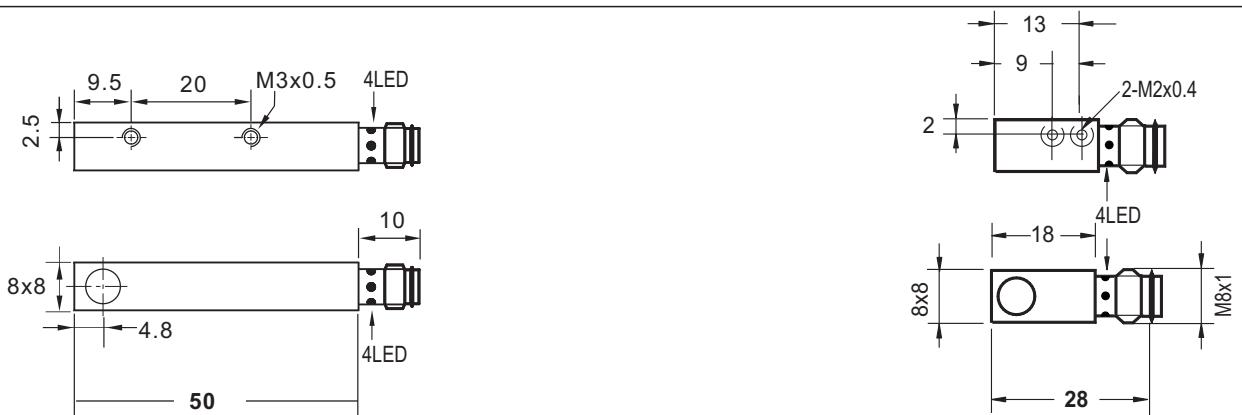


尺寸图 Dimension drawing(unit: mm)

1



2



金属圆柱型 3线式-M12



特点描述/ Feature Description

- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: 不锈钢或铜镀镍
Housing material : Stainless steel or Nickel plated brass
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EA1M1202NA2-B□	M12	2mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1M1202NB2-B□	M12	2mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1M1202PA2-B□	M12	2mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1M1202PB2-B□	M12	2mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA2M1204NA2-B□	M12	4mm	○	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA2M1204NB2-B□	M12	4mm	○	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA2M1204PA2-B□	M12	4mm	○	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA2M1204PB2-B□	M12	4mm	○	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA1M1202NAE-B□	M12	2mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M12 Euro style	3
EA1M1202NBE-B□	M12	2mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M12 Euro style	3
EA1M1202PAE-B□	M12	2mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M12 Euro style	3
EA1M1202PBE-B□	M12	2mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M12 Euro style	3
EA2M1204NAE-B□	M12	4mm	○	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	4
EA2M1204NBE-B□	M12	4mm	○	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	4
EA2M1204PAE-B□	M12	4mm	○	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	4
EA2M1204PBE-B□	M12	4mm	○	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	4

两倍距离选型/Extended Sensing:

EA1M1204NA2-B□	M12	4mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1M1204NB2-B□	M12	4mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1M1204PA2-B□	M12	4mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1M1204PB2-B□	M12	4mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA2M1208NA2-B□	M12	8mm	○	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA2M1208NB2-B□	M12	8mm	○	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA2M1208PA2-B□	M12	8mm	○	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA2M1208PB2-B□	M12	8mm	○	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA1M1204NAE-B□	M12	4mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
EA1M1204NBE-B□	M12	4mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
EA1M1204PAE-B□	M12	4mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
EA1M1204PBE-B□	M12	4mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
EA2M1208NAE-B□	M12	8mm	○	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4
EA2M1208NBE-B□	M12	8mm	○	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4
EA2M1208PAE-B□	M12	8mm	○	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4
EA2M1208PBE-B□	M12	8mm	○	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4

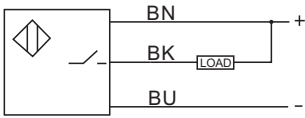
三倍距离选型/Long Sensing:

EA1M1206NA2-B□	M12	6mm	●	NPN	N.O.	10-30V	200mA	800HZ	-25℃~+70℃	2M PVC Cable	1
EA1M1206NB2-B□	M12	6mm	●	NPN	N.C.	10-30V	200mA	800HZ	-25℃~+70℃	2M PVC Cable	1
EA1M1206PA2-B□	M12	6mm	●	PNP	N.O.	10-30V	200mA	800HZ	-25℃~+70℃	2M PVC Cable	1
EA1M1206PB2-B□	M12	6mm	●	PNP	N.C.	10-30V	200mA	800HZ	-25℃~+70℃	2M PVC Cable	1
EA2M1210NA2-B□	M12	10mm	○	NPN	N.O.	10-30V	200mA	400HZ	-25℃~+70℃	2M PVC Cable	2
EA2M1210NB2-B□	M12	10mm	○	NPN	N.C.	10-30V	200mA	400HZ	-25℃~+70℃	2M PVC Cable	2
EA2M1210PA2-B□	M12	10mm	○	PNP	N.O.	10-30V	200mA	400HZ	-25℃~+70℃	2M PVC Cable	2
EA2M1210PB2-B□	M12	10mm	○	PNP	N.C.	10-30V	200mA	400HZ	-25℃~+70℃	2M PVC Cable	2
EA1M1206NAE-B□	M12	6mm	●	NPN	N.O.	10-30V	200mA	800HZ	-25℃~+70℃	M12 Euro style	3
EA1M1206NBE-B□	M12	6mm	●	NPN	N.C.	10-30V	200mA	800HZ	-25℃~+70℃	M12 Euro style	3
EA1M1206PAE-B□	M12	6mm	●	PNP	N.O.	10-30V	200mA	800HZ	-25℃~+70℃	M12 Euro style	3
EA1M1206PBE-B□	M12	6mm	●	PNP	N.C.	10-30V	200mA	800HZ	-25℃~+70℃	M12 Euro style	3
EA2M1210NAE-B□	M12	10mm	○	NPN	N.O.	10-30V	200mA	400HZ	-25℃~+70℃	M12 Euro style	4
EA2M1210NBE-B□	M12	10mm	○	NPN	N.C.	10-30V	200mA	400HZ	-25℃~+70℃	M12 Euro style	4
EA2M1210PAE-B□	M12	10mm	○	PNP	N.O.	10-30V	200mA	400HZ	-25℃~+70℃	M12 Euro style	4
EA2M1210PBE-B□	M12	10mm	○	PNP	N.C.	10-30V	200mA	400HZ	-25℃~+70℃	M12 Euro style	4

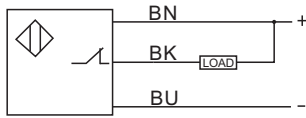
电气接线图 Connection diagram

电缆接线 / Connection diagrams

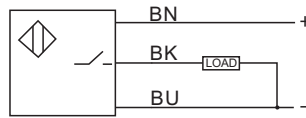
DC 3 Wire NPN-N.O.



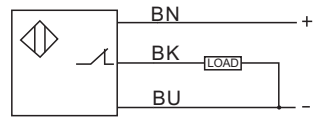
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

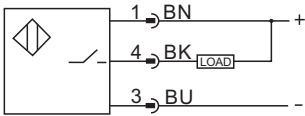


DC 3 Wire PNP-N.C.

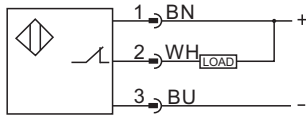


插接件接线 / Connection diagrams

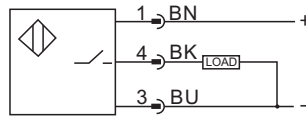
DC 3 Wire NPN-N.O.



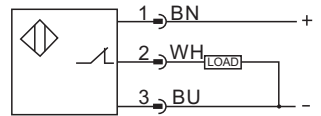
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

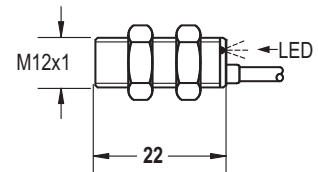
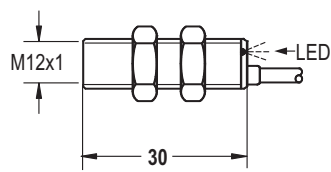
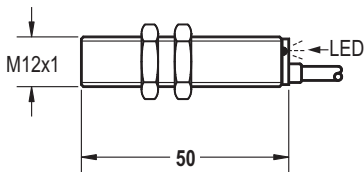


DC 3 Wire PNP-N.C.

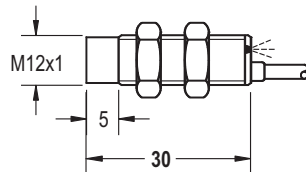
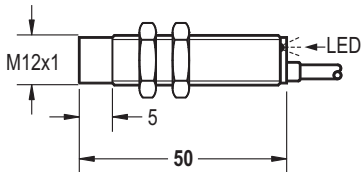


尺寸图 Dimension drawing (unit: mm)

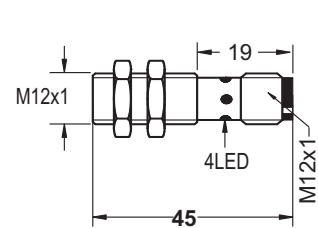
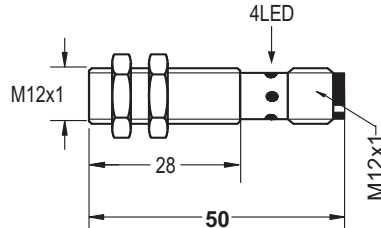
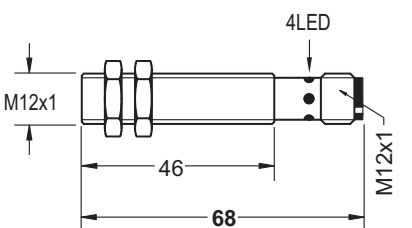
1



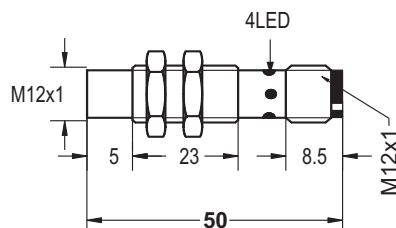
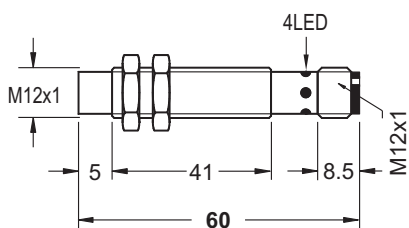
2



3



4



金属圆柱型 3线式-M18



特点描述/ Feature Description

- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: 不锈钢或铜镀镍
Housing material : Stainless steel or Nickel plated brass
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)



普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EA1M1805NA2-B□	M18	5mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1M1805NB2-B□	M18	5mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1M1805PA2-B□	M18	5mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1M1805PB2-B□	M18	5mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA2M1808NA2-B□	M18	8mm	○	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA2M1808NB2-B□	M18	8mm	○	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA2M1808PA2-B□	M18	8mm	○	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA2M1808PB2-B□	M18	8mm	○	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA1M1805NAE-B□	M18	5mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
EA1M1805NBE-B□	M18	5mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
EA1M1805PAE-B□	M18	5mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
EA1M1805PBE-B□	M18	5mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
EA2M1808NAE-B□	M18	8mm	○	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4
EA2M1808NBE-B□	M18	8mm	○	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4
EA2M1808PAE-B□	M18	8mm	○	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4
EA2M1808PBE-B□	M18	8mm	○	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4

两倍距离选型/Extended Sensing:

EA1M1808NA2-B□	M18	8mm	●	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	1
EA1M1808NB2-B□	M18	8mm	●	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	1
EA1M1808PA2-B□	M18	8mm	●	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	1
EA1M1808PB2-B□	M18	8mm	●	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	1
EA2M1816NA2-B□	M18	16mm	○	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
EA2M1816NB2-B□	M18	16mm	○	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
EA2M1816PA2-B□	M18	16mm	○	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
EA2M1816PB2-B□	M18	16mm	○	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
EA1M1808NAE-B□	M18	8mm	●	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	3
EA1M1808NBE-B□	M18	8mm	●	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	3
EA1M1808PAE-B□	M18	8mm	●	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	3
EA1M1808PBE-B□	M18	8mm	●	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	3
EA2M1816NAE-B□	M18	16mm	○	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	4
EA2M1816NBE-B□	M18	16mm	○	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	4
EA2M1816PAE-B□	M18	16mm	○	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	4
EA2M1816PBE-B□	M18	16mm	○	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	4

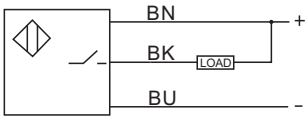
三倍距离选型/Long Sensing:

EA1M1812NA2-B□	M18	12mm	●	NPN	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	1
EA1M1812NB2-B□	M18	12mm	●	NPN	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	1
EA1M1812PA2-B□	M18	12mm	●	PNP	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	1
EA1M1812PB2-B□	M18	12mm	●	PNP	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	1
EA2M1820NA2-B□	M18	20mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
EA2M1820NB2-B□	M18	20mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
EA2M1820PA2-B□	M18	20mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
EA2M1820PB2-B□	M18	20mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
EA1M1812NAE-B□	M18	12mm	●	NPN	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	3
EA1M1812NBE-B□	M18	12mm	●	NPN	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	3
EA1M1812PAE-B□	M18	12mm	●	PNP	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	3
EA1M1812PBE-B□	M18	12mm	●	PNP	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	3
EA2M1820NAE-B□	M18	20mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
EA2M1820NBE-B□	M18	20mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
EA2M1820PAE-B□	M18	20mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
EA2M1820PBE-B□	M18	20mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4

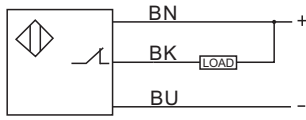
电气接线图 Connection diagram

电缆接线 / Connection diagrams

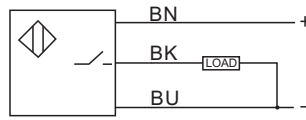
DC 3 Wire NPN-N.O.



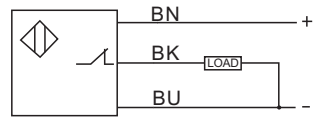
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

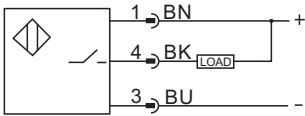


DC 3 Wire PNP-N.C.

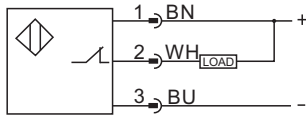


插接件接线 / Connection diagrams

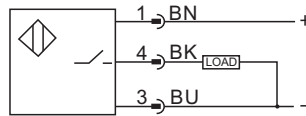
DC 3 Wire NPN-N.O.



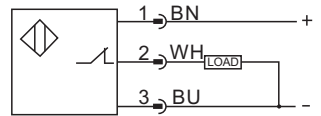
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

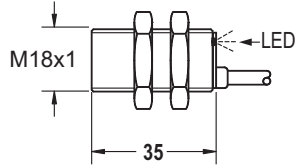
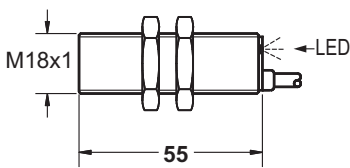


DC 3 Wire PNP-N.C.

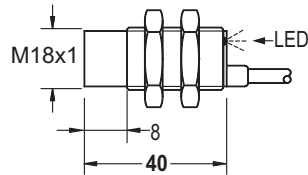
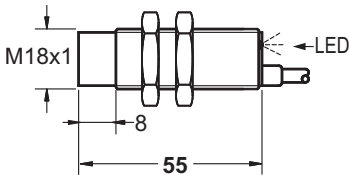


尺寸图 Dimension drawing (unit: mm)

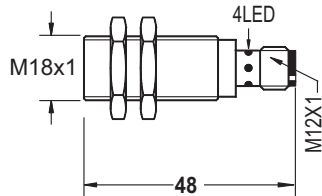
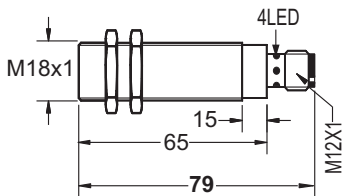
1



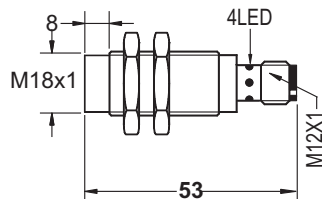
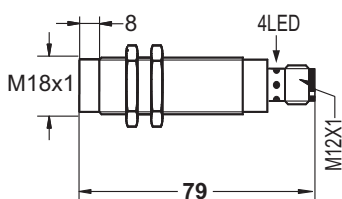
2



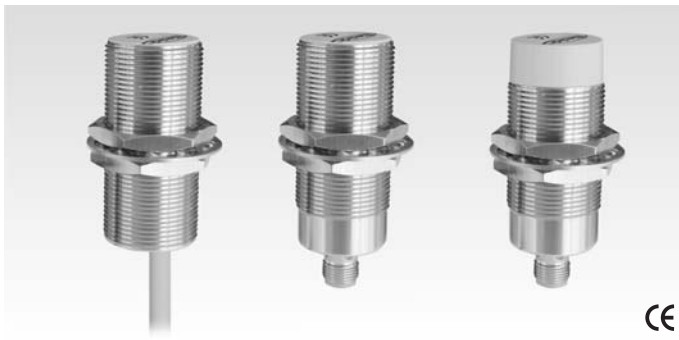
3



4



金属圆柱型 3线式-M30



特点描述/ Feature Description

- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: 不锈钢或铜镀镍
Housing material: Stainless steel or Nickel plated brass
- ◆ 防护等级 IP67(IEC)
Protection degree: IP67 (IEC)

普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EA1M3010NA2-B□	M30	10mm	●	NPN	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	1
EA1M3010NB2-B□	M30	10mm	●	NPN	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	1
EA1M3010PA2-B□	M30	10mm	●	PNP	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	1
EA1M3010PB2-B□	M30	10mm	●	PNP	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	1
EA2M3015NA2-B□	M30	15mm	○	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
EA2M3015NB2-B□	M30	15mm	○	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
EA2M3015PA2-B□	M30	15mm	○	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
EA2M3015PB2-B□	M30	15mm	○	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
EA1M3010NAE-B□	M30	10mm	●	NPN	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	3
EA1M3010NBE-B□	M30	10mm	●	NPN	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	3
EA1M3010PAE-B□	M30	10mm	●	PNP	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	3
EA1M3010PBE-B□	M30	10mm	●	PNP	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	3
EA2M3015NAE-B□	M30	15mm	○	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	4
EA2M3015NBE-B□	M30	15mm	○	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	4
EA2M3015PAE-B□	M30	15mm	○	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	4
EA2M3015PBE-B□	M30	15mm	○	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	4

两倍距离选型/Extended Sensing:

EA1M3016NA2-B□	M30	16mm	●	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	1
EA1M3016NB2-B□	M30	16mm	●	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	1
EA1M3016PA2-B□	M30	16mm	●	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	1
EA1M3016PB2-B□	M30	16mm	●	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	1
EA2M3025NA2-B□	M30	25mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
EA2M3025NB2-B□	M30	25mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
EA2M3025PA2-B□	M30	25mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
EA2M3025PB2-B□	M30	25mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
EA1M3016NAE-B□	M30	16mm	●	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	3
EA1M3016NBE-B□	M30	16mm	●	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	3
EA1M3016PAE-B□	M30	16mm	●	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	3
EA1M3016PBE-B□	M30	16mm	●	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	3
EA2M3025NAE-B□	M30	25mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
EA2M3025NBE-B□	M30	25mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
EA2M3025PAE-B□	M30	25mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
EA2M3025PBE-B□	M30	25mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4

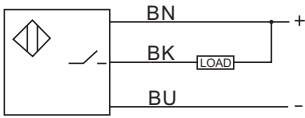
长距离选型/Long Sensing:

EA1M3022NA2-B□	M30	22mm	●	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	1
EA1M3022NB2-B□	M30	22mm	●	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	1
EA1M3022PA2-B□	M30	22mm	●	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	1
EA1M3022PB2-B□	M30	22mm	●	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	1
EA2M3040NA2-B□	M30	40mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
EA2M3040NB2-B□	M30	40mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
EA2M3040PA2-B□	M30	40mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
EA2M3040PB2-B□	M30	40mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
EA1M3022NAE-B□	M30	22mm	●	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	3
EA1M3022NBE-B□	M30	22mm	●	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	3
EA1M3022PAE-B□	M30	22mm	●	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	3
EA1M3022PBE-B□	M30	22mm	●	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	3
EA2M3040NAE-B□	M30	40mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
EA2M3040NBE-B□	M30	40mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
EA2M3040PAE-B□	M30	40mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
EA2M3040PBE-B□	M30	40mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4

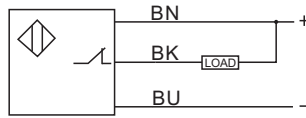
电气接线图 Connection diagram

电缆接线 / Connection diagrams

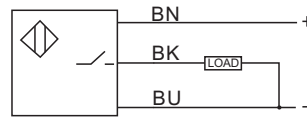
DC 3 Wire NPN-N.O.



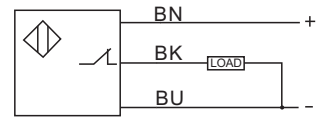
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

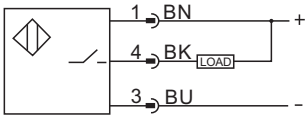


DC 3 Wire PNP-N.C.

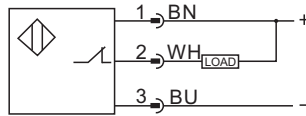


插接件接线 / Connection diagrams

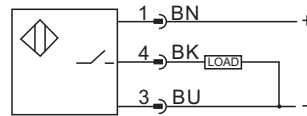
DC 3 Wire NPN-N.O.



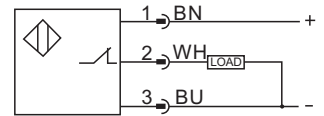
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

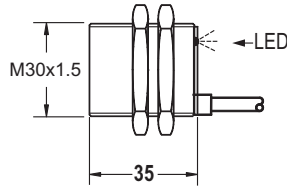
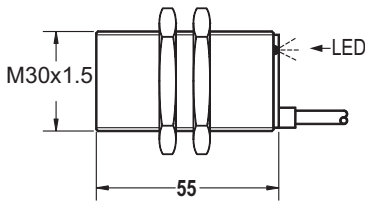


DC 3 Wire PNP-N.C.

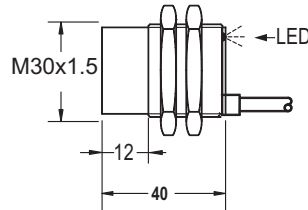
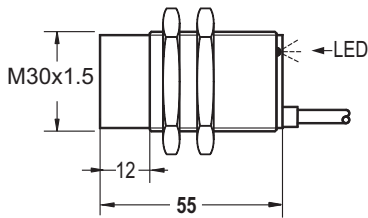


尺寸图 Dimension drawing (unit: mm)

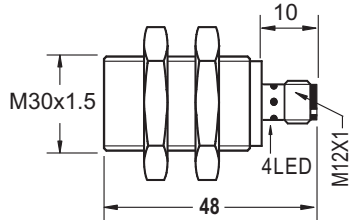
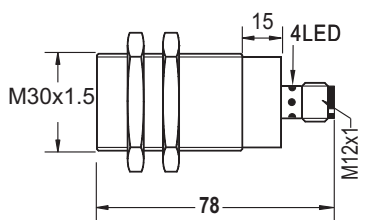
1



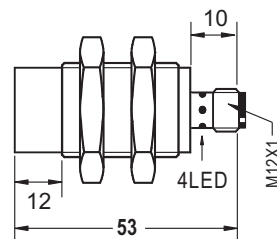
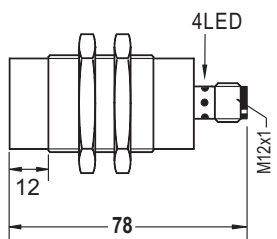
2



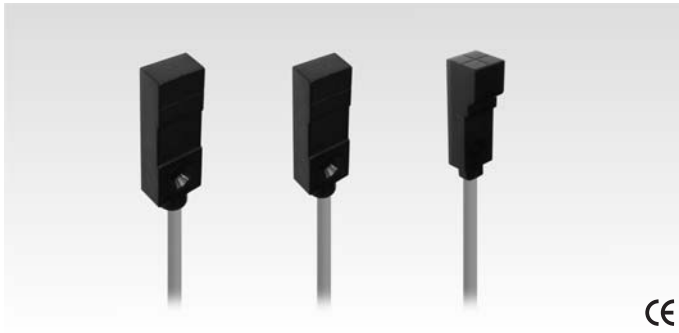
3



4



塑料 Q型 3线式-Q8,Q10,Q12



特点描述/ Feature Description

- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: Polycarbonate
Housing material : Polycarbonate
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

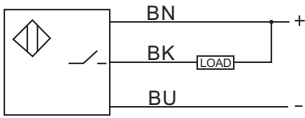
普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EA2Q081.5NA2F-P	Q8F	1.5mm	●	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	1
EA2Q081.5NB2F-P	Q8F	1.5mm	●	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	1
EA2Q081.5PA2F-P	Q8F	1.5mm	●	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	1
EA2Q081.5PB2F-P	Q8F	1.5mm	●	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	1
EA2Q081.5NA2T-P	Q8T	1.5mm	●	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA2Q081.5NB2T-P	Q8T	1.5mm	●	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA2Q081.5PA2T-P	Q8T	1.5mm	●	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA2Q081.5PB2T-P	Q8T	1.5mm	●	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA2Q1002NA2F-P	Q10F	2mm	●	NPN	N.O.	10-30V	200mA	250HZ	-25℃~+70℃	2M PVC Cable	3
EA2Q1002NB2F-P	Q10F	2mm	●	NPN	N.C.	10-30V	200mA	250HZ	-25℃~+70℃	2M PVC Cable	3
EA2Q1002PA2F-P	Q10F	2mm	●	PNP	N.O.	10-30V	200mA	250HZ	-25℃~+70℃	2M PVC Cable	3
EA2Q1002PB2F-P	Q10F	2mm	●	PNP	N.C.	10-30V	200mA	250HZ	-25℃~+70℃	2M PVC Cable	3
EA2Q1202NA2F-P	Q12F	2mm	●	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	4
EA2Q1202NB2F-P	Q12F	2mm	●	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	4
EA2Q1202PA2F-P	Q12F	2mm	●	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	4
EA2Q1202PB2F-P	Q12F	2mm	●	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	4
EA2Q1203NA2F-P	Q12F	3mm	●	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	4
EA2Q1203NB2F-P	Q12F	3mm	●	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	4
EA2Q1203PA2F-P	Q12F	3mm	●	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	4
EA2Q1203PB2F-P	Q12F	3mm	●	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	4

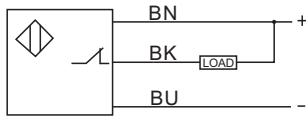
电气接线图 Connection diagram

电缆接线 / Connection diagrams

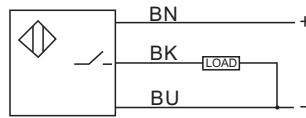
DC 3 Wire NPN-N.O.



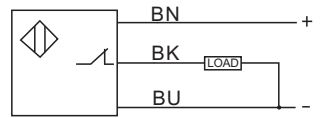
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

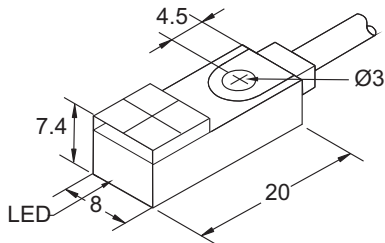


DC 3 Wire PNP-N.C.

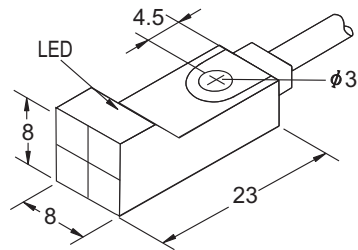


尺寸图 Dimension drawing(unit: mm)

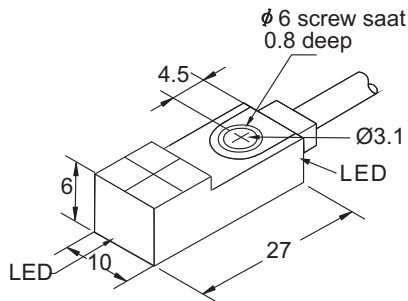
1 Q8F



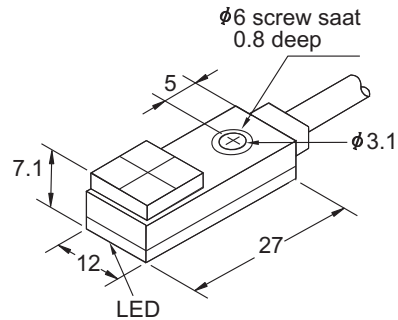
2 Q8T



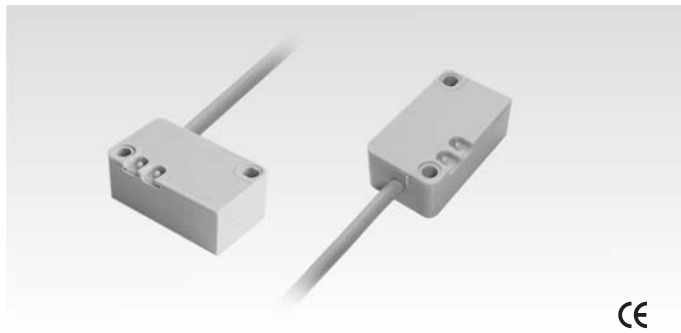
3 Q10F



4 Q12F



塑料 Q型 3线式-Q28



特点描述/ Feature Description

- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: PBT
Housing material : PBT
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)



普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EA1Q2801NA2-P	Q28	1mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q2801NB2-P	Q28	1mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q2801PA2-P	Q28	1mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q2801PB2-P	Q28	1mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA2Q2802NA2-P	Q28	2mm	○	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA2Q2802NB2-P	Q28	2mm	○	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA2Q2802PA2-P	Q28	2mm	○	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA2Q2802PB2-P	Q28	2mm	○	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q28X01NA2-P	Q28X	1mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EA1Q28X01NB2-P	Q28X	1mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EA1Q28X01PA2-P	Q28X	1mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EA1Q28X01PB2-P	Q28X	1mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EA2Q28X02NA2-P	Q28X	2mm	○	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EA2Q28X02NB2-P	Q28X	2mm	○	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EA2Q28X02PA2-P	Q28X	2mm	○	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EA2Q28X02PB2-P	Q28X	2mm	○	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2

两倍距离选型/Extended Sensing:

EA1Q2802NA2-P	Q28	2mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q2802NB2-P	Q28	2mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q2802PA2-P	Q28	2mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q2802PB2-P	Q28	2mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA2Q2804NA2-P	Q28	4mm	○	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA2Q2804NB2-P	Q28	4mm	○	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA2Q2804PA2-P	Q28	4mm	○	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA2Q2804PB2-P	Q28	4mm	○	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q28X02NA2-P	Q28X	2mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EA1Q28X02NB2-P	Q28X	2mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EA1Q28X02PA2-P	Q28X	2mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EA1Q28X02PB2-P	Q28X	2mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EA2Q28X04NA2-P	Q28X	4mm	○	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA2Q28X04NB2-P	Q28X	4mm	○	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA2Q28X04PA2-P	Q28X	4mm	○	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA2Q28X04PB2-P	Q28X	4mm	○	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2

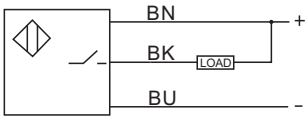
三倍距离选型/Long Sensing:

EA1Q2803NA2-P	Q28	3mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q2803NB2-P	Q28	3mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q2803PA2-P	Q28	3mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q2803PB2-P	Q28	3mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA2Q2806NA2-P	Q28	6mm	○	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	1
EA2Q2806NB2-P	Q28	6mm	○	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	1
EA2Q2806PA2-P	Q28	6mm	○	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	1
EA2Q2806PB2-P	Q28	6mm	○	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	1
EA1Q28X03NA2-P	Q28X	3mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA1Q28X03NB2-P	Q28X	3mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA1Q28X03PA2-P	Q28X	3mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA1Q28X03PB2-P	Q28X	3mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA2Q28X06NA2-P	Q28X	6mm	○	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA2Q28X06NB2-P	Q28X	6mm	○	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA2Q28X06PA2-P	Q28X	6mm	○	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA2Q28X06PB2-P	Q28X	6mm	○	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2

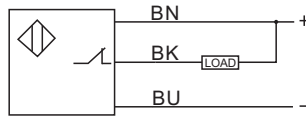
电气接线图 Connection diagram

电缆接线 / Connection diagrams

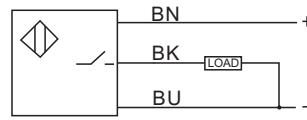
DC 3 Wire NPN-N.O.



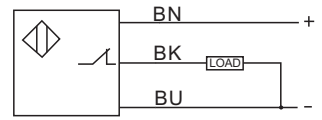
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

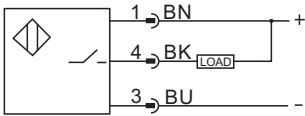


DC 3 Wire PNP-N.C.

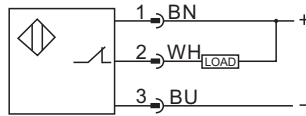


插接件接线 / Connection diagrams

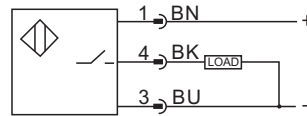
DC 3 Wire NPN-N.O.



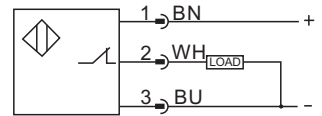
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

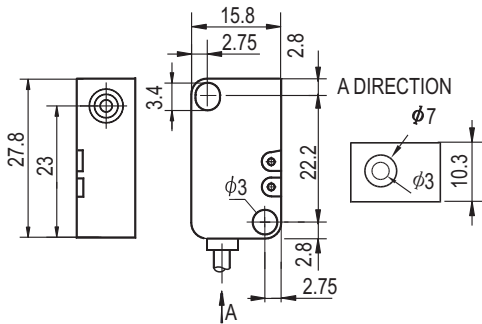


DC 3 Wire PNP-N.C.

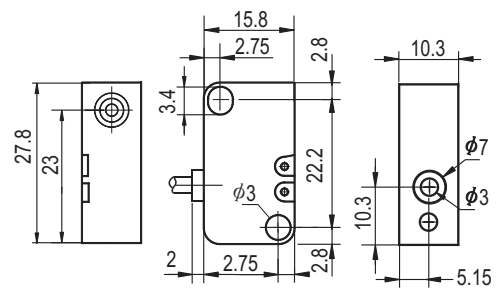


尺寸图 Dimension drawing (unit: mm)

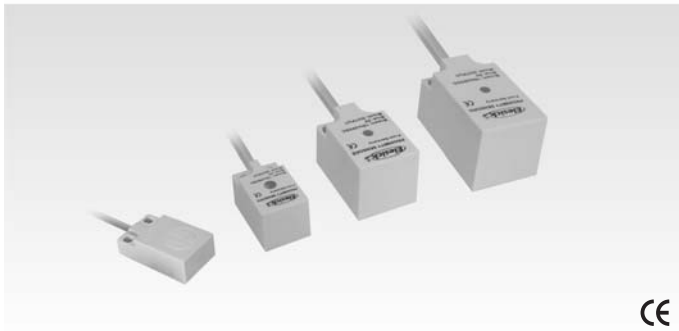
1 Q28



2 Q28X



塑料 Q型 3线式-Q18C,Q18,Q25,Q30



特点描述/ Feature Description

- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: PBT
Housing material : PBT
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)



普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EA2Q18C05NA2-P	Q18C	5mm	○	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA2Q18C05NB2-P	Q18C	5mm	○	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA2Q18C05PA2-P	Q18C	5mm	○	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA2Q18C05PB2-P	Q18C	5mm	○	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q1805NA2-P	Q18	5mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA1Q1805NB2-P	Q18	5mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA1Q1805PA2-P	Q18	5mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA1Q1805PB2-P	Q18	5mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA2Q1808NA2-P	Q18	8mm	○	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA2Q1808NB2-P	Q18	8mm	○	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA2Q1808PA2-P	Q18	8mm	○	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA2Q1808PB2-P	Q18	8mm	○	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
EA1Q2508NA2-P	Q25	8mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	3
EA1Q2508NB2-P	Q25	8mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	3
EA1Q2508PA2-P	Q25	8mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	3
EA1Q2508PB2-P	Q25	8mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	3
EA2Q2510NA2-P	Q25	10mm	○	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	3
EA2Q2510NB2-P	Q25	10mm	○	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	3
EA2Q2510PA2-P	Q25	10mm	○	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	3
EA2Q2510PB2-P	Q25	10mm	○	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	3
EA1Q3010NA2-P	Q30	10mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	4
EA1Q3010NB2-P	Q30	10mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	4
EA1Q3010PA2-P	Q30	10mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	4
EA1Q3010PB2-P	Q30	10mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	4
EA2Q3015NA2-P	Q30	15mm	○	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	4
EA2Q3015NB2-P	Q30	15mm	○	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	4
EA2Q3015PA2-P	Q30	15mm	○	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	4
EA2Q3015PB2-P	Q30	15mm	○	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	4

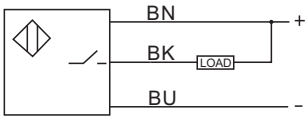
两倍距离选型/Extended Sensing:

EA1Q2510NA2-P	Q25	10mm	●	NPN	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	2
EA1Q2510NB2-P	Q25	10mm	●	NPN	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	2
EA1Q2510PA2-P	Q25	10mm	●	PNP	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	2
EA1Q2510PB2-P	Q25	10mm	●	PNP	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	2
EA2Q2515NA2-P	Q25	15mm	○	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
EA2Q2515NB2-P	Q25	15mm	○	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
EA2Q2515PA2-P	Q25	15mm	○	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
EA2Q2515PB2-P	Q25	15mm	○	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
EA1Q3016NA2-P	Q30	16mm	●	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	3
EA1Q3016NB2-P	Q30	16mm	●	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	3
EA1Q3016PA2-P	Q30	16mm	●	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	3
EA1Q3016PB2-P	Q30	16mm	●	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	3
EA2Q2525NA2-P	Q30	25mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	3
EA2Q2525NB2-P	Q30	25mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	3
EA2Q2525PA2-P	Q30	25mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	3
EA2Q2525PB2-P	Q30	25mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	3

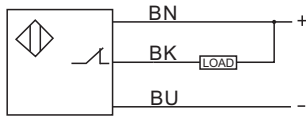
电气接线图 Connection diagram

电缆接线 / Connection diagrams

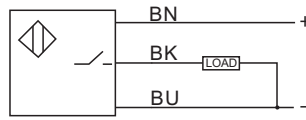
DC 3 Wire NPN-N.O.



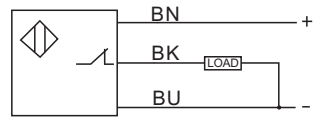
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

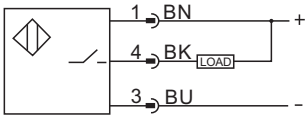


DC 3 Wire PNP-N.C.

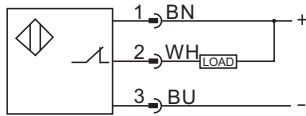


插接件接线 / Connection diagrams

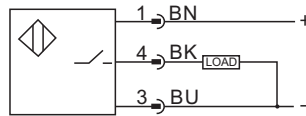
DC 3 Wire NPN-N.O.



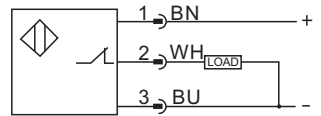
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

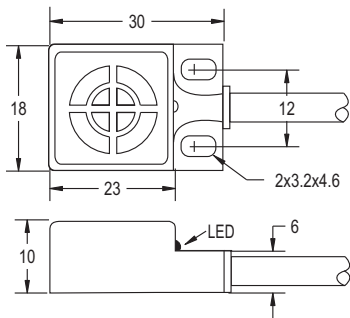


DC 3 Wire PNP-N.C.

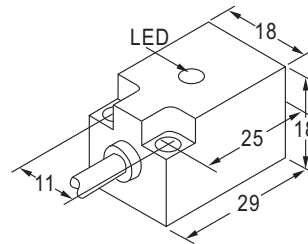


尺寸图 Dimension drawing (unit: mm)

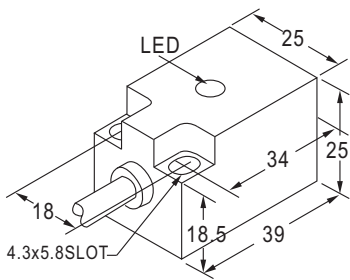
1 Q18C



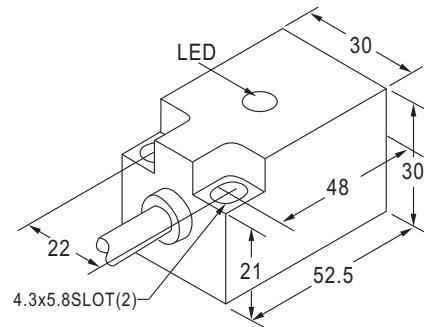
2 Q18



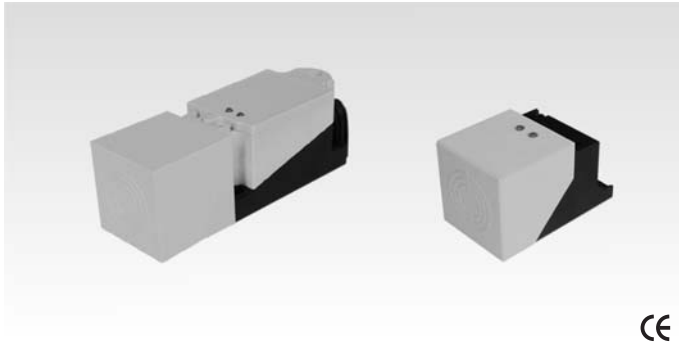
3 Q25



4 Q30



塑料 Q型 3线式-Q40S,Q40



特点描述/ Feature Description

- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: PBT
Housing material : PBT
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

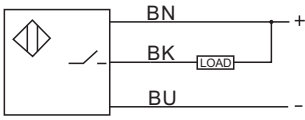
普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EA1Q40S15NAE-P	Q40S	15mm	●	NPN	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	1
EA1Q40S15NBE-P	Q40S	15mm	●	NPN	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	1
EA1Q40S15PAE-P	Q40S	15mm	●	PNP	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	1
EA1Q40S15PBE-P	Q40S	15mm	●	PNP	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	1
EA2Q40S20NAE-P	Q40S	20mm	○	NPN	N.O.	10-30V	200mA	200HZ	-25℃~+70℃	M12 Euro style	1
EA2Q40S20NBE-P	Q40S	20mm	○	NPN	N.C.	10-30V	200mA	200HZ	-25℃~+70℃	M12 Euro style	1
EA2Q40S20PAE-P	Q40S	20mm	○	PNP	N.O.	10-30V	200mA	200HZ	-25℃~+70℃	M12 Euro style	1
EA2Q40S20PBE-P	Q40S	20mm	○	PNP	N.C.	10-30V	200mA	200HZ	-25℃~+70℃	M12 Euro style	1
EA2Q40S30NAE-P	Q40S	30mm	○	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	1
EA2Q40S30NBE-P	Q40S	30mm	○	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	1
EA2Q40S30PAE-P	Q40S	30mm	○	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	1
EA2Q40S30PBE-P	Q40S	30mm	○	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	1
EA1Q4015NAT-P	Q40	15mm	●	NPN	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	Terminal mode	2
EA1Q4015NBT-P	Q40	15mm	●	NPN	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	Terminal mode	2
EA1Q4015PAT-P	Q40	15mm	●	PNP	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	Terminal mode	2
EA1Q4015PBT-P	Q40	15mm	●	PNP	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	Terminal mode	2
EA2Q4020NAT-P	Q40	20mm	○	NPN	N.O.	10-30V	200mA	200HZ	-25℃~+70℃	Terminal mode	2
EA2Q4020NBT-P	Q40	20mm	○	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	Terminal mode	2
EA2Q4020PAT-P	Q40	20mm	○	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	Terminal mode	2
EA2Q4020PBT-P	Q40	20mm	○	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	Terminal mode	2
EA2Q4030NAT-P	Q40	30mm	○	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	Terminal mode	2
EA2Q4030NBT-P	Q40	30mm	○	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	Terminal mode	2
EA2Q4030PAT-P	Q40	30mm	○	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	Terminal mode	2
EA2Q4030PBT-P	Q40	30mm	○	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	Terminal mode	2
EA1Q4015NAE-P	Q40	15mm	●	NPN	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	3
EA1Q4015NBE-P	Q40	15mm	●	NPN	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	3
EA1Q4015PAE-P	Q40	15mm	●	PNP	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	3
EA1Q4015PBE-P	Q40	15mm	●	PNP	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	3
EA2Q4020NAE-P	Q40	20mm	○	NPN	N.O.	10-30V	200mA	200HZ	-25℃~+70℃	M12 Euro style	3
EA2Q4020NBE-P	Q40	20mm	○	NPN	N.C.	10-30V	200mA	200HZ	-25℃~+70℃	M12 Euro style	3
EA2Q4020PAE-P	Q40	20mm	○	PNP	N.O.	10-30V	200mA	200HZ	-25℃~+70℃	M12 Euro style	3
EA2Q4020PBE-P	Q40	20mm	○	PNP	N.C.	10-30V	200mA	200HZ	-25℃~+70℃	M12 Euro style	3
EA2Q4030NAE-P	Q40	30mm	○	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	3
EA2Q4030NBE-P	Q40	30mm	○	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	3
EA2Q4030PAE-P	Q40	30mm	○	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	3
EA2Q4030PBE-P	Q40	30mm	○	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	3

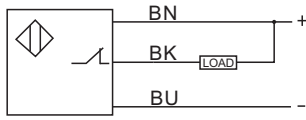
电气接线图 Connection diagram

电缆接线 / Connection diagrams

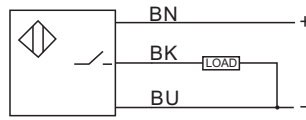
DC 3 Wire NPN-N.O.



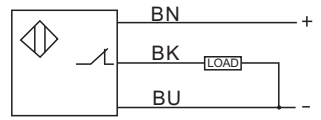
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

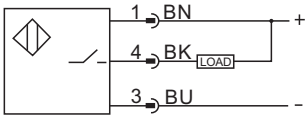


DC 3 Wire PNP-N.C.

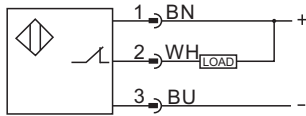


插接件接线 / Connection diagrams

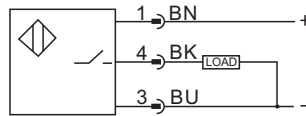
DC 3 Wire NPN-N.O.



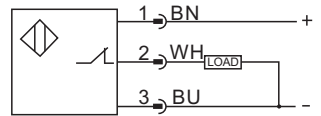
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

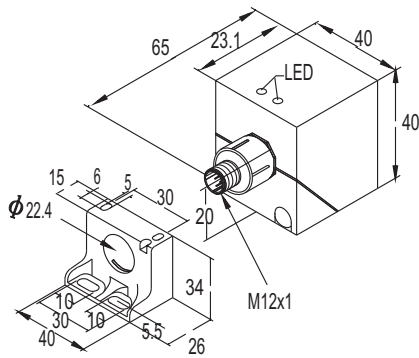


DC 3 Wire PNP-N.C.

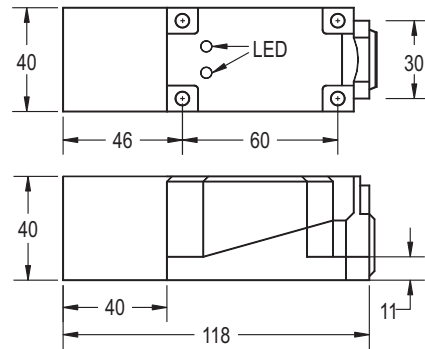


尺寸图 Dimension drawing (unit: mm)

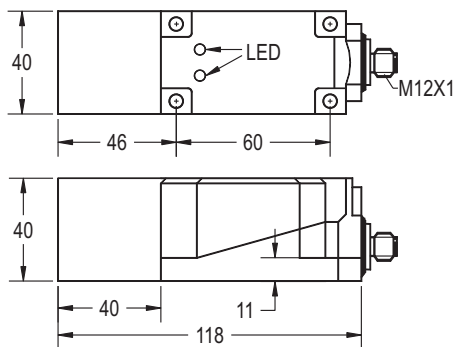
1



2



3



DC 两线式-D6.5,M8,M12



特点描述/ Feature Description

- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: 不锈钢或铜镀镍
Housing material : Stainless steel or Nickel plated brass
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

普通距离选型/Normal Sensing:

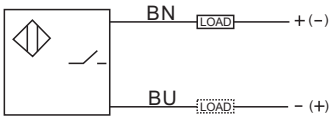
型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EB1D6.501CA2-S□	D6.5	1mm	●	-	N.O.	10-60V	100mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EB1D6.501CB2-S□	D6.5	1mm	●	-	N.C.	10-60V	100mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EB2D6.502CA2-S□	D6.5	2mm	○	-	N.O.	10-60V	100mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EB2D6.502CB2-S□	D6.5	2mm	○	-	N.C.	10-60V	100mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EB1D6.501CAP-S□	D6.5	1mm	●	-	N.O.	10-60V	100mA	2KHZ	-25℃~+70℃	M8 Pico style	3
EB1D6.501CBP-S□	D6.5	1mm	●	-	N.C.	10-60V	100mA	2KHZ	-25℃~+70℃	M8 Pico style	3
EB2D6.502CAP-S□	D6.5	2mm	○	-	N.O.	10-60V	100mA	2KHZ	-25℃~+70℃	M8 Pico style	4
EB2D6.502CBP-S□	D6.5	2mm	○	-	N.C.	10-60V	100mA	2KHZ	-25℃~+70℃	M8 Pico style	4
EB1M0801CA2-S□	M8	1mm	●	-	N.O.	10-60V	100mA	2KHZ	-25℃~+70℃	2M PVC Cable	5
EB1M0801CB2-S□	M8	1mm	●	-	N.C.	10-60V	100mA	2KHZ	-25℃~+70℃	2M PVC Cable	5
EB2M0802CA2-S□	M8	2mm	○	-	N.O.	10-60V	100mA	2KHZ	-25℃~+70℃	2M PVC Cable	6
EB2M0802CB2-S□	M8	2mm	○	-	N.C.	10-60V	100mA	2KHZ	-25℃~+70℃	2M PVC Cable	6
EB1M0801CAP-S□	M8	1mm	●	-	N.O.	10-60V	100mA	2KHZ	-25℃~+70℃	M8 Pico style	7
EB1M0801CBP-S□	M8	1mm	●	-	N.C.	10-60V	100mA	2KHZ	-25℃~+70℃	M8 Pico style	7
EB2M0802CAP-S□	M8	2mm	○	-	N.O.	10-60V	100mA	2KHZ	-25℃~+70℃	M8 Pico style	8
EB2M0802CBP-S□	M8	2mm	○	-	N.C.	10-60V	100mA	2KHZ	-25℃~+70℃	M8 Pico style	8
EB1M1202CA2-B□	M12	2mm	●	-	N.O.	10-60V	100mA	2KHZ	-25℃~+70℃	2M PVC Cable	9
EB1M1202CB2-B□	M12	2mm	●	-	N.C.	10-60V	100mA	2KHZ	-25℃~+70℃	2M PVC Cable	9
EB2M1204CA2-B□	M12	4mm	○	-	N.O.	10-60V	100mA	1KHZ	-25℃~+70℃	2M PVC Cable	10
EB2M1204CB2-B□	M12	4mm	○	-	N.C.	10-60V	100mA	1KHZ	-25℃~+70℃	2M PVC Cable	10
EB1M1202CAE-B□	M12	2mm	●	-	N.O.	10-60V	100mA	2KHZ	-25℃~+70℃	M12 Euro style	11
EB1M1202CBE-B□	M12	2mm	●	-	N.C.	10-60V	100mA	2KHZ	-25℃~+70℃	M12 Euro style	11
EB2M1204CAE-B□	M12	4mm	○	-	N.O.	10-60V	100mA	1KHZ	-25℃~+70℃	M12 Euro style	12
EB2M1204CBE-B□	M12	4mm	○	-	N.C.	10-60V	100mA	1KHZ	-25℃~+70℃	M12 Euro style	12

两倍距离选型/Extended Sensing:

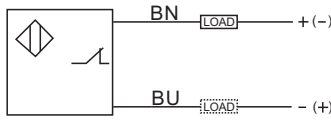
EB1M1204CA2-B□	M12	4mm	●	-	N.O.	10-60V	100mA	1KHZ	-25℃~+70℃	2M PVC Cable	9
EB1M1204CB2-B□	M12	4mm	●	-	N.C.	10-60V	100mA	1KHZ	-25℃~+70℃	2M PVC Cable	9
EB2M1208CA2-B□	M12	8mm	○	-	N.O.	10-60V	100mA	500HZ	-25℃~+70℃	2M PVC Cable	10
EB2M1208CB2-B□	M12	8mm	○	-	N.C.	10-60V	100mA	500HZ	-25℃~+70℃	2M PVC Cable	10
EB1M1204CAE-B□	M12	4mm	●	-	N.O.	10-60V	100mA	1KHZ	-25℃~+70℃	M12 Euro style	11
EB1M1204CBE-B□	M12	4mm	●	-	N.C.	10-60V	100mA	1KHZ	-25℃~+70℃	M12 Euro style	11
EB2M1208CAE-B□	M12	8mm	○	-	N.O.	10-60V	100mA	500HZ	-25℃~+70℃	M12 Euro style	12
EB2M1208CBE-B□	M12	8mm	○	-	N.C.	10-60V	100mA	500HZ	-25℃~+70℃	M12 Euro style	12

电缆接线 / Connection diagrams

DC 2 Wire N.O.

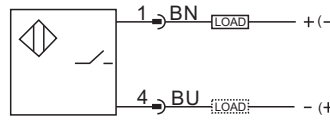


DC 2 Wire N.C.

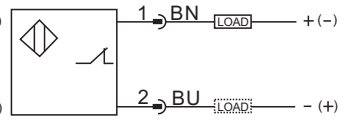


插件接线 / Connection diagrams

DC 2 Wire N.O.

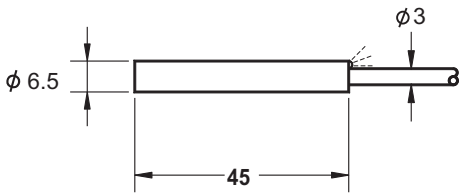


DC 2 Wire N.C.

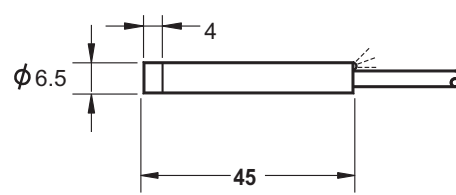


尺寸图 Dimension drawing(unit: mm)

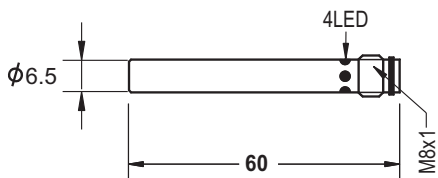
1



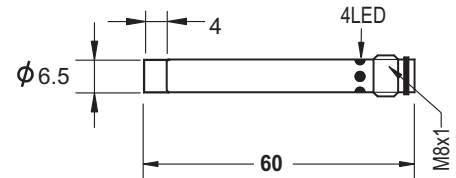
2



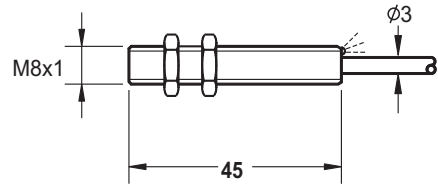
3



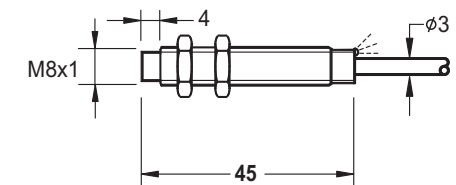
4



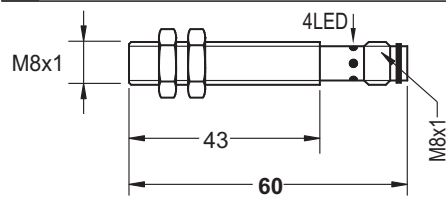
5



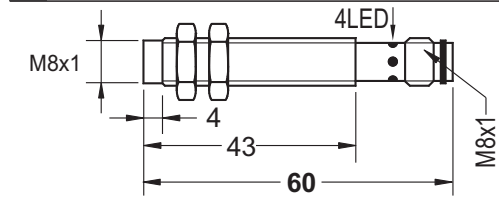
6



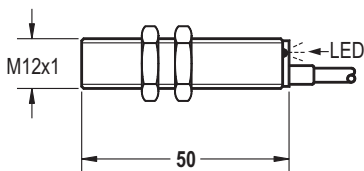
7



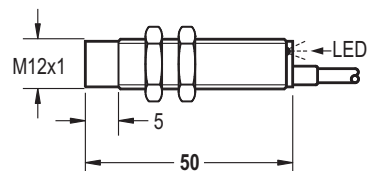
8



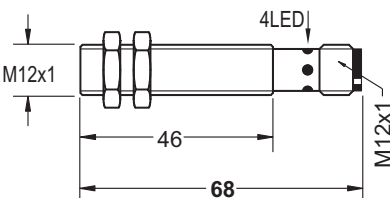
9



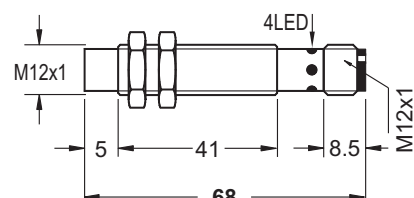
10



11



12



DC 两线式-M18,M30



特点描述/ Feature Description

- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: 不锈钢或铜镀镍
Housing material : Stainless steel or Nickel plated brass
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

普通距离选型/Normal Sensing:

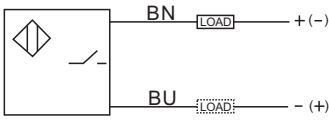
型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EB1M1805CA2-B□	M18	5mm	●	-	N.O.	10-60V	100mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EB1M1805CB2-B□	M18	5mm	●	-	N.C.	10-60V	100mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EB2M1808CA2-B□	M18	8mm	○	-	N.O.	10-60V	100mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EB2M1808CB2-B□	M18	8mm	○	-	N.C.	10-60V	100mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EB1M1805CAE-B□	M18	5mm	●	-	N.O.	10-60V	100mA	1KHZ	-25℃~+70℃	M12 Euro style	3
EB1M1805CBE-B□	M18	5mm	●	-	N.C.	10-60V	100mA	1KHZ	-25℃~+70℃	M12 Euro style	3
EB2M1808CAE-B□	M18	8mm	○	-	N.O.	10-60V	100mA	500HZ	-25℃~+70℃	M12 Euro style	4
EB2M1808CBE-B□	M18	8mm	○	-	N.C.	10-60V	100mA	500HZ	-25℃~+70℃	M12 Euro style	4
EB1M3010CA2-B□	M30	10mm	●	-	N.O.	10-60V	100mA	1KHZ	-25℃~+70℃	2M PVC Cable	5
EB1M3010CB2-B□	M30	10mm	●	-	N.C.	10-60V	100mA	1KHZ	-25℃~+70℃	2M PVC Cable	5
EB2M3015CA2-B□	M30	15mm	○	-	N.O.	10-60V	100mA	500HZ	-25℃~+70℃	2M PVC Cable	6
EB2M3015CB2-B□	M30	15mm	○	-	N.C.	10-60V	100mA	500HZ	-25℃~+70℃	2M PVC Cable	6
EB1M3010CAE-B□	M30	10mm	●	-	N.O.	10-60V	100mA	1KHZ	-25℃~+70℃	M12 Euro style	7
EB1M3010CBE-B□	M30	10mm	●	-	N.C.	10-60V	100mA	1KHZ	-25℃~+70℃	M12 Euro style	7
EB2M3015CAE-B□	M30	15mm	○	-	N.O.	10-60V	100mA	500HZ	-25℃~+70℃	M12 Euro style	8
EB2M3015CBE-B□	M30	15mm	○	-	N.C.	10-60V	100mA	500HZ	-25℃~+70℃	M12 Euro style	8

两倍距离选型/Extended Sensing:

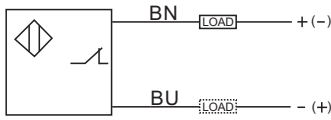
EB1M1808CA2-B□	M18	8mm	●	-	N.O.	10-60V	100mA	500HZ	-25℃~+70℃	2M PVC Cable	1
EB1M1808CB2-B□	M18	8mm	●	-	N.C.	10-60V	100mA	500HZ	-25℃~+70℃	2M PVC Cable	1
EB2M1816CA2-B□	M18	16mm	○	-	N.O.	10-60V	100mA	150HZ	-25℃~+70℃	2M PVC Cable	2
EB2M1816CB2-B□	M18	16mm	○	-	N.C.	10-60V	100mA	150HZ	-25℃~+70℃	2M PVC Cable	2
EB1M1808CAE-B□	M18	8mm	●	-	N.O.	10-60V	100mA	500HZ	-25℃~+70℃	M12 Euro style	3
EB1M1808CBE-B□	M18	8mm	●	-	N.C.	10-60V	100mA	500HZ	-25℃~+70℃	M12 Euro style	3
EB2M1816CAE-B□	M18	16mm	○	-	N.O.	10-60V	100mA	150HZ	-25℃~+70℃	M12 Euro style	4
EB2M1816CBE-B□	M18	16mm	○	-	N.C.	10-60V	100mA	150HZ	-25℃~+70℃	M12 Euro style	4
EB1M3016CA2-B□	M30	16mm	●	-	N.O.	10-60V	100mA	150HZ	-25℃~+70℃	2M PVC Cable	5
EB1M3016CB2-B□	M30	16mm	●	-	N.C.	10-60V	100mA	150HZ	-25℃~+70℃	2M PVC Cable	5
EB2M3025CA2-B□	M30	25mm	○	-	N.O.	10-60V	100mA	100HZ	-25℃~+70℃	2M PVC Cable	6
EB2M3025CB2-B□	M30	25mm	○	-	N.C.	10-60V	100mA	100HZ	-25℃~+70℃	2M PVC Cable	6
EB1M3016CAE-B□	M30	16mm	●	-	N.O.	10-60V	100mA	150HZ	-25℃~+70℃	M12 Euro style	7
EB1M3016CBE-B□	M30	16mm	●	-	N.C.	10-60V	100mA	150HZ	-25℃~+70℃	M12 Euro style	7
EB2M3025CAE-B□	M30	25mm	○	-	N.O.	10-60V	100mA	100HZ	-25℃~+70℃	M12 Euro style	8
EB2M3025CBE-B□	M30	25mm	○	-	N.C.	10-60V	100mA	100HZ	-25℃~+70℃	M12 Euro style	8

电缆接线 / Connection diagrams

DC 2 Wire N.O.

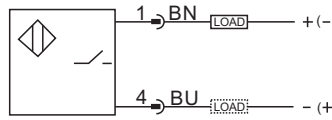


DC 2 Wire N.C.

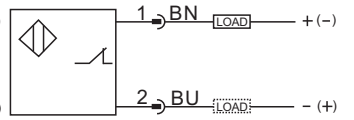


插接件接线 / Connection diagrams

DC 2 Wire N.O.

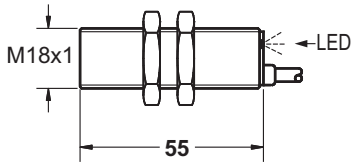


DC 2 Wire N.C.

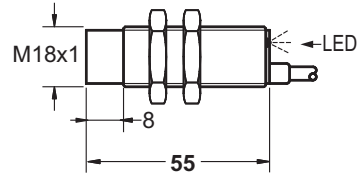


尺寸图 Dimension drawing(unit: mm)

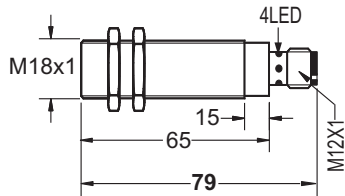
1



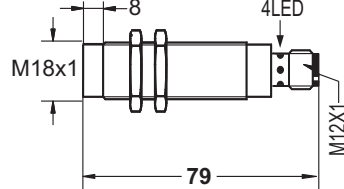
2



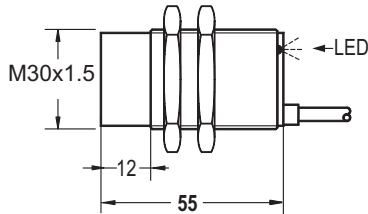
3



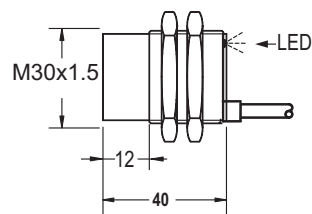
4



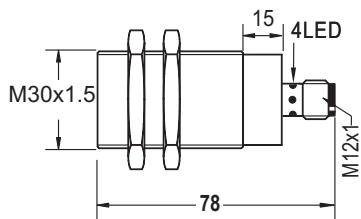
5



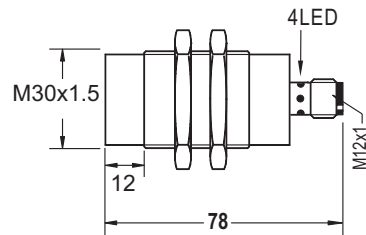
6



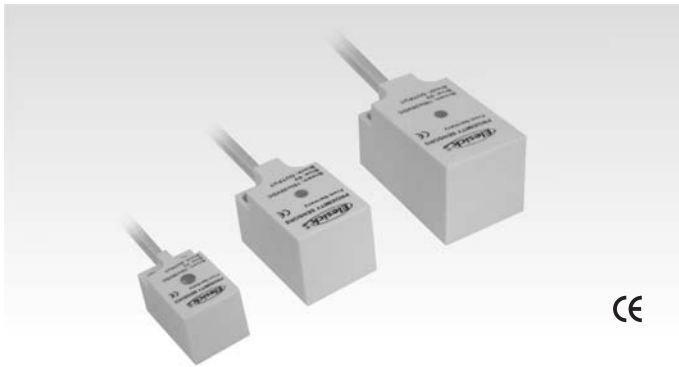
7



8



塑料 Q型 2线式-Q18,Q25,Q30



特点描述/ Feature Description

- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: PBT
Housing material : PBT
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EB1Q1805CA2-P	Q18	5mm	●	-	N.O.	10-60V	100mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EB1Q1805CB2-P	Q18	5mm	●	-	N.C.	10-60V	100mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EB2Q1808CA2-P	Q18	8mm	○	-	N.O.	10-60V	100mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EB2Q1808CB2-P	Q18	8mm	○	-	N.C.	10-60V	100mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EB1Q2507CA2-P	Q25	7mm	●	-	N.O.	10-60V	100mA	1KHZ	-25℃~+70℃	2M PVC Cable	3
EB1Q2507CB2-P	Q25	7mm	●	-	N.C.	10-60V	100mA	1KHZ	-25℃~+70℃	2M PVC Cable	3
EB2Q2510CA2-P	Q25	10mm	○	-	N.O.	10-60V	100mA	500HZ	-25℃~+70℃	2M PVC Cable	4
EB2Q2510CB2-P	Q25	10mm	○	-	N.C.	10-60V	100mA	500HZ	-25℃~+70℃	2M PVC Cable	4
EB1Q3010CA2-P	Q30	10mm	●	-	N.O.	10-60V	100mA	300HZ	-25℃~+70℃	2M PVC Cable	5
EB1Q3010CB2-P	Q30	10mm	●	-	N.C.	10-60V	100mA	300HZ	-25℃~+70℃	2M PVC Cable	5
EB2Q2515CA2-P	Q30	15mm	○	-	N.O.	10-60V	100mA	150HZ	-25℃~+70℃	2M PVC Cable	6
EB2Q2515CB2-P	Q30	15mm	○	-	N.C.	10-60V	100mA	150HZ	-25℃~+70℃	2M PVC Cable	6

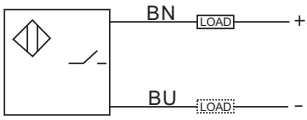
两倍距离选型/Extended Sensing:

EB1Q2510CA2-P	Q25	10mm	●	-	N.O.	10-60V	100mA	300HZ	-25℃~+70℃	2M PVC Cable	3
EB1Q2510CB2-P	Q25	10mm	●	-	N.C.	10-60V	100mA	300HZ	-25℃~+70℃	2M PVC Cable	3
EB2Q2515CA2-P	Q25	15mm	○	-	N.O.	10-60V	100mA	150HZ	-25℃~+70℃	2M PVC Cable	4
EB2Q2515CB2-P	Q25	15mm	○	-	N.C.	10-60V	100mA	150HZ	-25℃~+70℃	2M PVC Cable	4
EB1Q3016CA2-P	Q30	16mm	●	-	N.O.	10-60V	100mA	150HZ	-25℃~+70℃	2M PVC Cable	5
EB1Q3016CB2-P	Q30	16mm	●	-	N.C.	10-60V	100mA	150HZ	-25℃~+70℃	2M PVC Cable	5
EB2Q2525CA2-P	Q30	25mm	○	-	N.O.	10-60V	100mA	100HZ	-25℃~+70℃	2M PVC Cable	6
EB2Q2525CB2-P	Q30	25mm	○	-	N.C.	10-60V	100mA	100HZ	-25℃~+70℃	2M PVC Cable	6

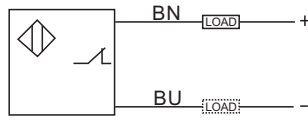
电气接线图 Connection diagram

电缆接线 / Connection diagrams

DC 2 Wire N.O.

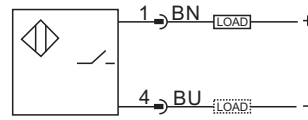


DC 2 Wire N.C.

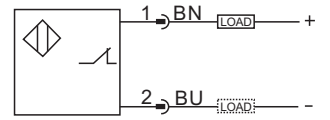


插接件接线 / Connection diagrams

DC 2 Wire N.O.

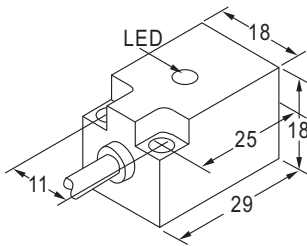


DC 2 Wire N.C.

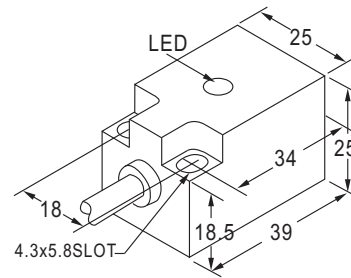


尺寸图 Dimension drawing(unit: mm)

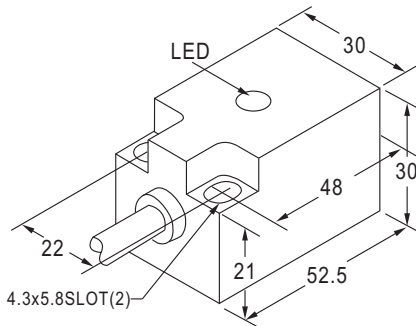
1 Q18



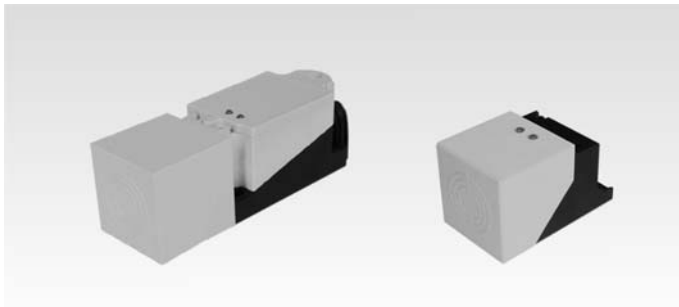
2 Q25



3 Q30



塑料 Q型 2线式-Q40S,Q40



特点描述/ Feature Description

- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: PBT
Housing material : PBT
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

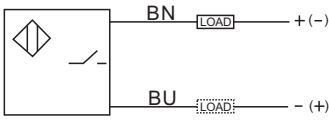
普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EB1Q40S15CAE-P	Q40S	15mm	●	-	N.O.	10-60V	100mA	100HZ	-25℃~+70℃	M12 Euro style	1
EB1Q40S15CBE-P	Q40S	15mm	●	-	N.C.	10-60V	100mA	100HZ	-25℃~+70℃	M12 Euro style	1
EB2Q40S20CAE-P	Q40S	20mm	○	-	N.O.	10-60V	100mA	100HZ	-25℃~+70℃	M12 Euro style	1
EB2Q40S20CBE-P	Q40S	20mm	○	-	N.C.	10-60V	100mA	100HZ	-25℃~+70℃	M12 Euro style	1
EB2Q40S30CAE-P	Q40S	30mm	○	-	N.O.	10-60V	100mA	100HZ	-25℃~+70℃	M12 Euro style	1
EB2Q40S30CBE-P	Q40S	30mm	○	-	N.C.	10-60V	100mA	100HZ	-25℃~+70℃	M12 Euro style	1
EB1Q40S15CAT-P	Q40	15mm	●	-	N.O.	10-60V	100mA	100HZ	-25℃~+70℃	Terminal mode	2
EB1Q40S15CBT-P	Q40	15mm	●	-	N.C.	10-60V	100mA	100HZ	-25℃~+70℃	Terminal mode	2
EB2Q40S20CAT-P	Q40	20mm	○	-	N.O.	10-60V	100mA	100HZ	-25℃~+70℃	Terminal mode	2
EB2Q40S20CBT-P	Q40	20mm	○	-	N.C.	10-60V	100mA	100HZ	-25℃~+70℃	Terminal mode	2
EB2Q40S30CAT-P	Q40	30mm	○	-	N.O.	10-60V	100mA	100HZ	-25℃~+70℃	Terminal mode	2
EB2Q40S30CBT-P	Q40	30mm	○	-	N.C.	10-60V	100mA	100HZ	-25℃~+70℃	Terminal mode	2
EB1Q40S15CAE-P	Q40	15mm	●	-	N.O.	10-60V	100mA	100HZ	-25℃~+70℃	M12 Euro style	3
EB1Q40S15CBE-P	Q40	15mm	●	-	N.C.	10-60V	100mA	100HZ	-25℃~+70℃	M12 Euro style	3
EB2Q40S20CAE-P	Q40	20mm	○	-	N.O.	10-60V	100mA	100HZ	-25℃~+70℃	M12 Euro style	3
EB2Q40S20CBE-P	Q40	20mm	○	-	N.C.	10-60V	100mA	100HZ	-25℃~+70℃	M12 Euro style	3
EB2Q40S30CAE-P	Q40	30mm	○	-	N.O.	10-60V	100mA	100HZ	-25℃~+70℃	M12 Euro style	3
EB2Q40S30CBE-P	Q40	30mm	○	-	N.C.	10-60V	100mA	100HZ	-25℃~+70℃	M12 Euro style	3

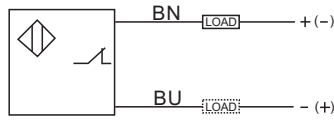
电气接线图 Connection diagram

电缆接线 / Connection diagrams

DC 2 Wire N.O.

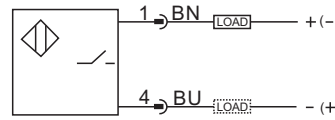


DC 2 Wire N.C.

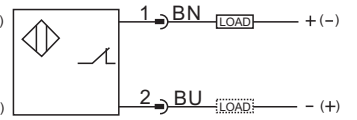


插接件接线 / Connection diagrams

DC 2 Wire N.O.

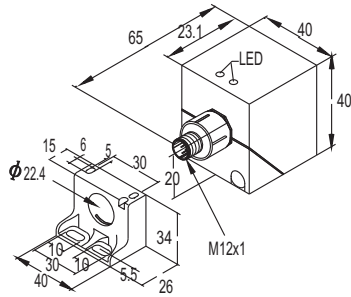


DC 2 Wire N.C.

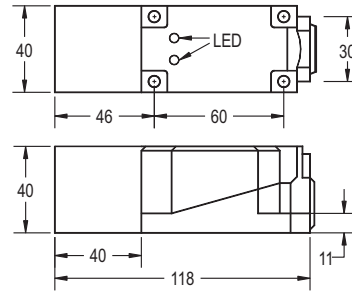


尺寸图 Dimension drawing(unit: mm)

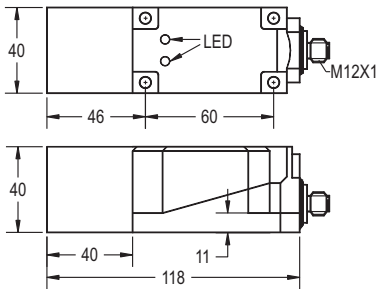
1



2



3



金属圆柱型 4线式-D6.5,M8,M12



特点描述/ Feature Description

- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: 不锈钢或铜镀镍
Housing material : Stainless steel or Nickel plated brass
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

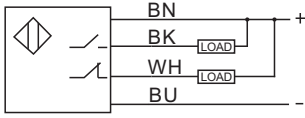
普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EA1D6.501NK2-S□	D6.5	1mm	●	NPN	N.O.&N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA1D6.501PK2-S□	D6.5	1mm	●	PNP	N.O.&N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
EA2D6.502NK2-S□	D6.5	2mm	○	NPN	N.O.&N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EA2D6.502PK2-S□	D6.5	2mm	○	PNP	N.O.&N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
EA1D6.501NKP-S□	D6.5	1mm	●	NPN	N.O.&N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
EA1D6.501PKP-S□	D6.5	1mm	●	PNP	N.O.&N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
EA2D6.502NKP-S□	D6.5	2mm	○	NPN	N.O.&N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	4
EA2D6.502PKP-S□	D6.5	2mm	○	PNP	N.O.&N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	4
EA1M0801NK2-B□	M8	1mm	●	NPN	N.O.&N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	5
EA1M0801PK2-B□	M8	1mm	●	PNP	N.O.&N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	5
EA2M0802NK2-B□	M8	2mm	○	NPN	N.O.&N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	6
EA2M0802PK2-B□	M8	2mm	○	PNP	N.O.&N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	6
EA1M0801NKP-B□	M8	1mm	●	NPN	N.O.&N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	7
EA1M0801PKP-B□	M8	1mm	●	PNP	N.O.&N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	7
EA2M0802NKP-B□	M8	2mm	○	NPN	N.O.&N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	8
EA2M0802PKP-B□	M8	2mm	○	PNP	N.O.&N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	8
EA1M1202NK2-B□	M12	2mm	●	NPN	N.O.&N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	9
EA1M1202PK2-B□	M12	2mm	●	PNP	N.O.&N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	9
EA2M1204NK2-B□	M12	4mm	○	NPN	N.O.&N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	10
EA2M1204PK2-B□	M12	4mm	○	PNP	N.O.&N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	10
EA1M1202NKE-B□	M12	2mm	●	NPN	N.O.&N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M12 Euro style	11
EA1M1202PKE-B□	M12	2mm	●	PNP	N.O.&N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M12 Euro style	11
EA2M1204NKE-B□	M12	4mm	○	NPN	N.O.&N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	12
EA2M1204PKE-B□	M12	4mm	○	PNP	N.O.&N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	12

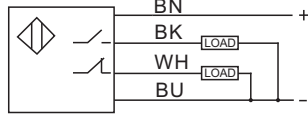
电气接线图 Connection diagram

电缆接线 / Connection diagrams

DC 4 Wire NPN-N.O.& N.C.

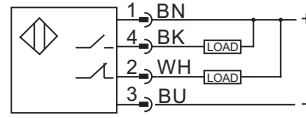


DC 4 Wire PNP-N.O.& N.C.

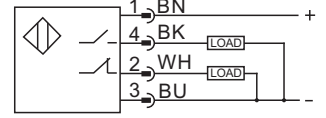


插接件接线 / Connection diagrams

DC 4 Wire NPN-N.O.& N.C.

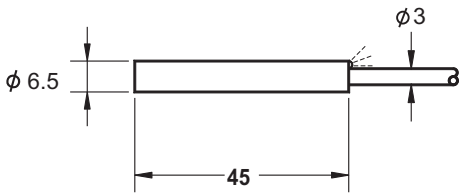


DC 4 Wire PNP-N.O.& N.C.

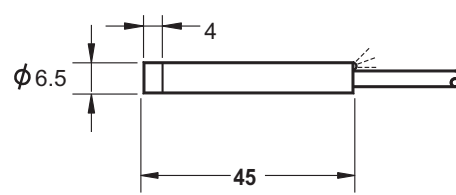


尺寸图 Dimension drawing (unit: mm)

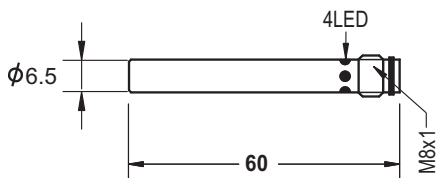
1



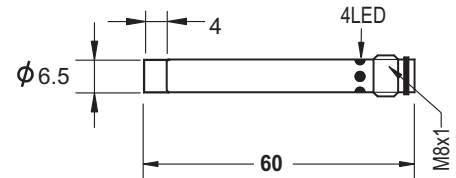
2



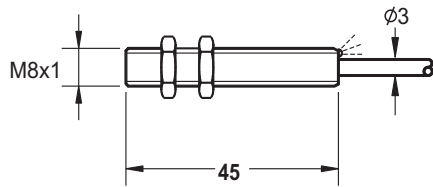
3



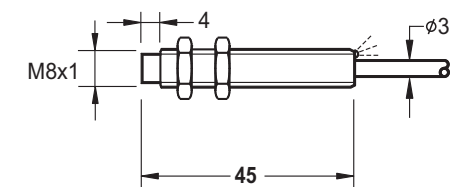
4



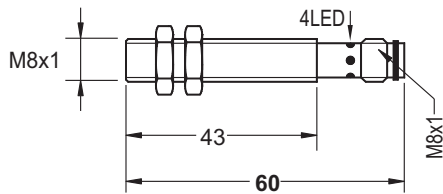
5



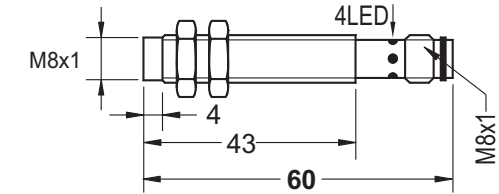
6



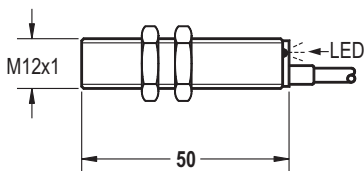
7



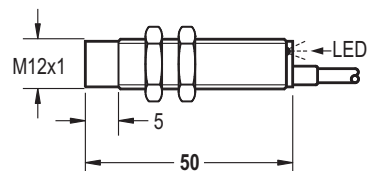
8



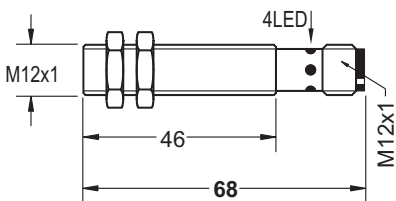
9



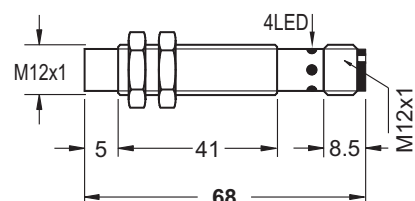
10



11



12



金属圆柱型 4线式-M18,M30



特点描述/ Feature Description

- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: 不锈钢或铜镀镍
Housing material : Stainless steel or Nickel plated brass
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EA1M1805NK2-B□	M18	5mm	●	NPN	N.O.&N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1M1805PK2-B□	M18	5mm	●	PNP	N.O.&N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA2M1808NK2-B□	M18	8mm	○	NPN	N.O.&N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA2M1808PK2-B□	M18	8mm	○	PNP	N.O.&N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA1M1805NKE-B□	M18	5mm	●	NPN	N.O.&N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
EA1M1805PKE-B□	M18	5mm	●	PNP	N.O.&N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
EA2M1808NKE-B□	M18	8mm	○	NPN	N.O.&N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4
EA2M1808PKE-B□	M18	8mm	○	PNP	N.O.&N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4
EA1M3010NK2-B□	M30	10mm	●	NPN	N.O.&N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	5
EA1M3010PK2-B□	M30	10mm	●	PNP	N.O.&N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	5
EA2M3015NK2-B□	M30	15mm	○	NPN	N.O.&N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	6
EA2M3015PK2-B□	M30	15mm	○	PNP	N.O.&N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	6
EA1M3010NKE-B□	M30	10mm	●	NPN	N.O.&N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	7
EA1M3010PKE-B□	M30	10mm	●	PNP	N.O.&N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	7
EA2M3015NKE-B□	M30	15mm	○	NPN	N.O.&N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	8
EA2M3015PKE-B□	M30	15mm	○	PNP	N.O.&N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	8

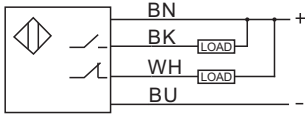
两倍距离选型/Extended Sensing:

EA1M1808NK2-B□	M18	8mm	●	NPN	N.O.&N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	1
EA1M1808PK2-B□	M18	8mm	●	PNP	N.O.&N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	1
EA2M1816NK2-B□	M18	16mm	○	NPN	N.O.&N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
EA2M1816PK2-B□	M18	16mm	○	PNP	N.O.&N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
EA1M1808NKE-B□	M18	8mm	●	NPN	N.O.&N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	3
EA1M1808PKE-B□	M18	8mm	●	PNP	N.O.&N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	3
EA2M1816NKE-B□	M18	16mm	○	NPN	N.O.&N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	4
EA2M1816PKE-B□	M18	16mm	○	PNP	N.O.&N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	4
EA1M3016NK2-B□	M30	16mm	●	NPN	N.O.&N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	5
EA1M3016PK2-B□	M30	16mm	●	PNP	N.O.&N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	5
EA2M3025NK2-B□	M30	25mm	○	NPN	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	6
EA2M3025PK2-B□	M30	25mm	○	PNP	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	6
EA1M3016NKE-B□	M30	16mm	●	NPN	N.O.&N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	7
EA1M3016PKE-B□	M30	16mm	●	PNP	N.O.&N.C.	10-60V	200mA	150HZ	-25℃~+70℃	M12 Euro style	7
EA2M3025NKE-B□	M30	25mm	○	NPN	N.O.&N.C.	10-60V	200mA	100HZ	-25℃~+70℃	M12 Euro style	8
EA2M3025PKE-B□	M30	25mm	○	PNP	N.O.&N.C.	10-60V	200mA	100HZ	-25℃~+70℃	M12 Euro style	8

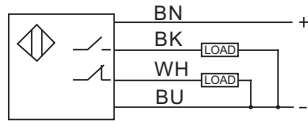
电气接线图 Connection diagram

电缆接线 / Connection diagrams

DC 4 Wire NPN-N.O.& N.C.

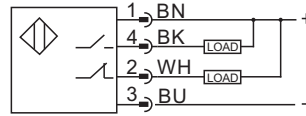


DC 4 Wire PNP-N.O.& N.C.

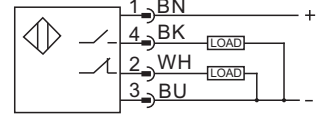


插接件接线 / Connection diagrams

DC 4 Wire NPN-N.O.& N.C.

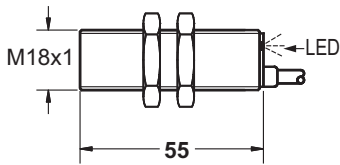


DC 4 Wire PNP-N.O.& N.C.

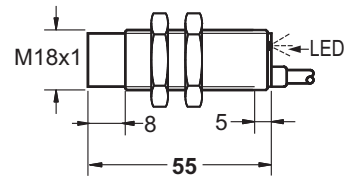


尺寸图 Dimension drawing(unit: mm)

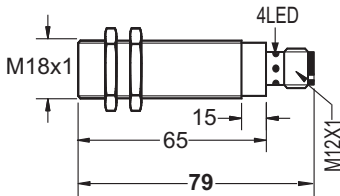
1



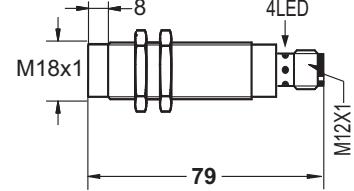
2



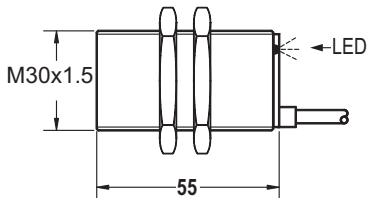
3



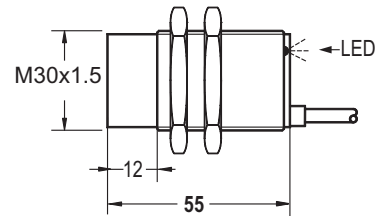
4



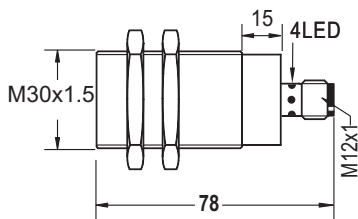
5



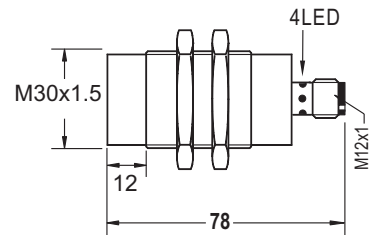
6



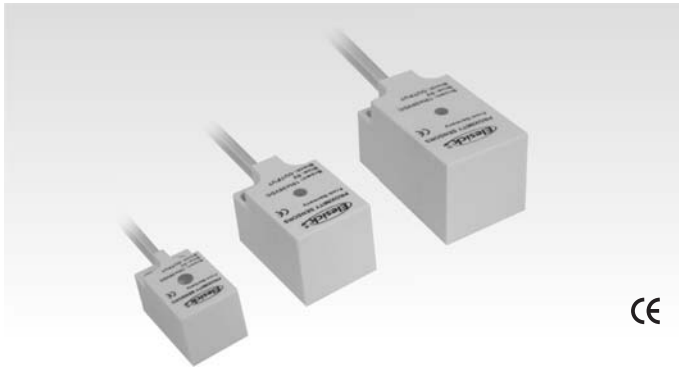
7



8



塑料 Q型 4线式-Q18,Q25,Q30



特点描述/ Feature Description

- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: PBT
Housing material : PBT
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

普通距离选型/Normal Sensing:

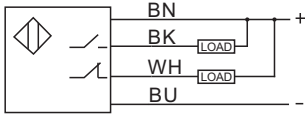
型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EA1Q1805NK2-P	Q18	5mm	●	NPN	N.O.&N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA1Q1805PK2-P	Q18	5mm	●	PNP	N.O.&N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
EA2Q1808NK2-P	Q18	8mm	○	NPN	N.O.&N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA2Q1808PK2-P	Q18	8mm	○	PNP	N.O.&N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
EA1Q2507NK2-P	Q25	7mm	●	NPN	N.O.&N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	3
EA1Q2507PK2-P	Q25	7mm	●	PNP	N.O.&N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	3
EA2Q2510NK2-P	Q25	10mm	○	NPN	N.O.&N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	4
EA2Q2510PK2-P	Q25	10mm	○	PNP	N.O.&N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	4
EA1Q3010NK2-P	Q25	10mm	●	NPN	N.O.&N.C.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	5
EA1Q3010PK2-P	Q25	10mm	●	PNP	N.O.&N.C.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	5
EA2Q2515NK2-P	Q25	15mm	○	NPN	N.O.&N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	6
EA2Q2515PK2-P	Q25	15mm	○	PNP	N.O.&N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	6

两倍距离选型/Extended Sensing:

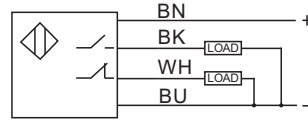
EA1Q2510NK2-P	Q25	10mm	●	NPN	N.O.&N.C.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	3
EA1Q2510PK2-P	Q25	10mm	●	PNP	N.O.&N.C.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	3
EA2Q2515NK2-P	Q25	15mm	○	NPN	N.O.&N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	4
EA2Q2515PK2-P	Q25	15mm	○	PNP	N.O.&N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	4
EA1Q3016NK2-P	Q25	16mm	●	NPN	N.O.&N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	5
EA1Q3016PK2-P	Q25	16mm	●	PNP	N.O.&N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	5
EA2Q2525NK2-P	Q25	25mm	○	NPN	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	6
EA2Q2525PK2-P	Q25	25mm	○	PNP	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	6

电缆接线 / Connection diagrams

DC 4 Wire NPN-N.O.& N.C.

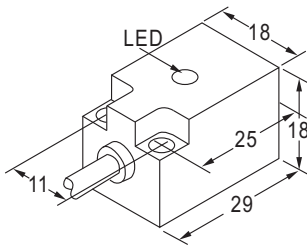


DC 4 Wire PNP-N.O.& N.C.

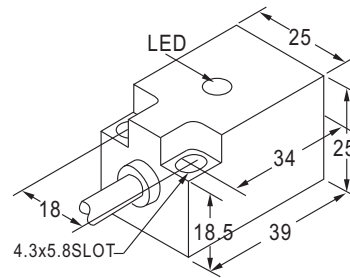


尺寸图 Dimension drawing(unit: mm)

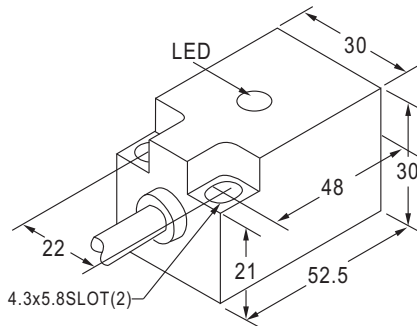
1 Q18



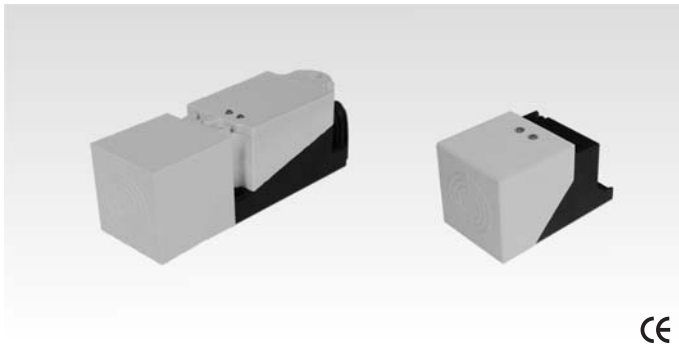
2 Q25



3 Q30



塑料 Q型 4线式-Q40S,Q40



特点描述/ Feature Description

- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: PBT
Housing material : PBT
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

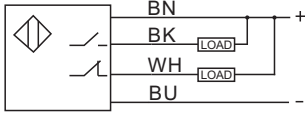
普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EA1Q40S15NKE-P	Q40S	15mm	●	NPN	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	1
EA1Q40S15PKE-P	Q40S	15mm	●	PNP	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	1
EA2Q40S20NKE-P	Q40S	20mm	○	NPN	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	1
EA2Q40S20PKE-P	Q40S	20mm	○	PNP	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	1
EA2Q40S30NKE-P	Q40S	30mm	○	NPN	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	1
EA2Q40S30PKE-P	Q40S	30mm	○	PNP	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	1
EA1Q40S15NKT-P	Q40	15mm	●	NPN	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	Terminal mode	2
EA1Q40S15PKT-P	Q40	15mm	●	PNP	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	Terminal mode	2
EA2Q40S20NKT-P	Q40	20mm	○	NPN	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	Terminal mode	2
EA2Q40S20PKT-P	Q40	20mm	○	PNP	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	Terminal mode	2
EA2Q40S30NKT-P	Q40	30mm	○	NPN	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	Terminal mode	2
EA2Q40S30PKT-P	Q40	30mm	○	PNP	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	Terminal mode	2
EA1Q40S15NKE-P	Q40	15mm	●	NPN	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	3
EA1Q40S15PKE-P	Q40	15mm	●	PNP	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	3
EA2Q40S20NKE-P	Q40	20mm	○	NPN	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	3
EA2Q40S20PKE-P	Q40	20mm	○	PNP	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	3
EA2Q40S30NKE-P	Q40	30mm	○	NPN	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	3
EA2Q40S30PKE-P	Q40	30mm	○	PNP	N.O.&N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	3

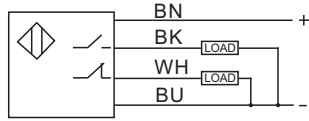
电气接线图 Connection diagram

电缆接线 / Connection diagrams

DC 4 Wire NPN-N.O.& N.C.

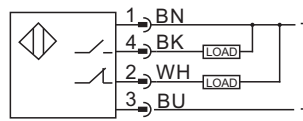


DC 4 Wire PNP-N.O.& N.C.

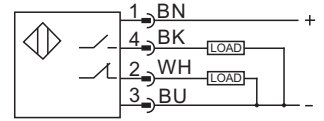


插接件接线 / Connection diagrams

DC 4 Wire NPN-N.O.& N.C.

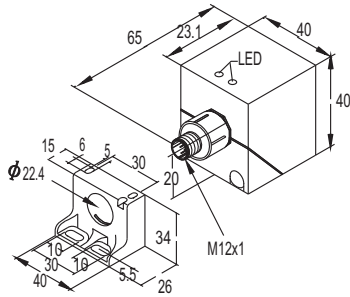


DC 4 Wire PNP-N.O.& N.C.

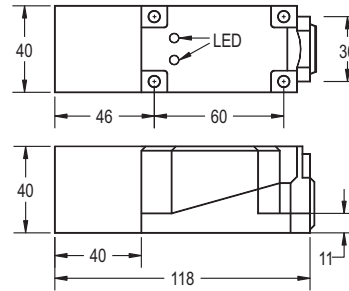


尺寸图 Dimension drawing(unit: mm)

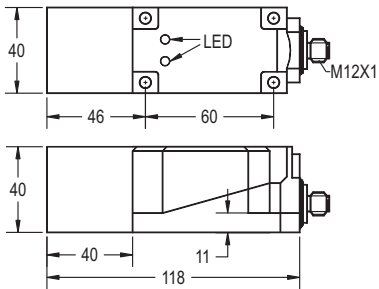
1



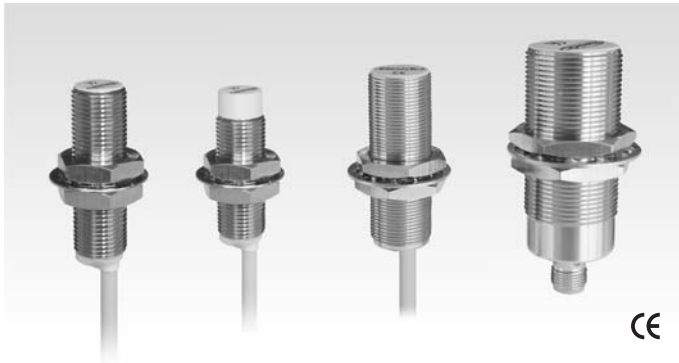
2



3



金属圆柱型 20~250VAC-M12,M18,M30



特点描述/ Feature Description

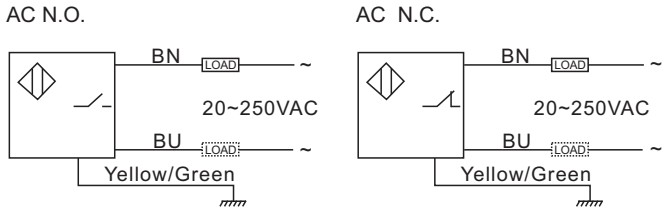
- ◆ 电源电压: 20~250VAC
Power supply:20~250VAC
- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 外壳材料: 不锈钢或铜镀镍
Housing material : Stainless steel or Nickel plated brass
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

普通距离选型/Normal Sensing:

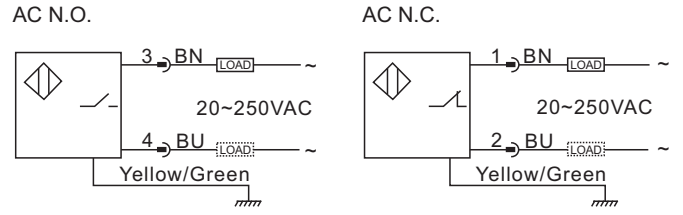
型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EE1M1202AA2-B □	M12	2mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	1
EE1M1202AB2-B □	M12	2mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	1
EE2M1204AA2-B □	M12	4mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	2
EE2M1204AB2-B □	M12	4mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	2
EE1M1202AAE-B □	M12	2mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	3
EE1M1202ABE-B □	M12	2mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	3
EE2M1204AAE-B □	M12	4mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	4
EE2M1204ABE-B □	M12	4mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	4
EE1M1805AA2-B □	M18	5mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	5
EE1M1805AB2-B □	M18	5mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	5
EE2M1808AA2-B □	M18	8mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	6
EE2M1808AB2-B □	M18	8mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	6
EE1M1805AAE-B □	M18	5mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	7
EE1M1805ABE-B □	M18	5mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	7
EE2M1808AAE-B □	M18	8mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	8
EE2M1808ABE-B □	M18	8mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	8
EE1M3010AA2-B □	M30	10mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	5
EE1M3010AB2-B □	M30	10mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	5
EE2M3015AA2-B □	M30	15mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	6
EE2M3015AB2-B □	M30	15mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	6
EE1M3010AAE-B □	M30	10mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	7
EE1M3010ABE-B □	M30	10mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	7
EE2M3015AAE-B □	M30	15mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	8
EE2M3015ABE-B □	M30	15mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	8

电气接线图 Connection diagram

电缆接线 / Connection diagrams

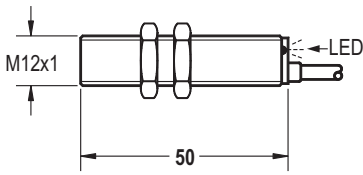


插接件接线 / Connection diagrams

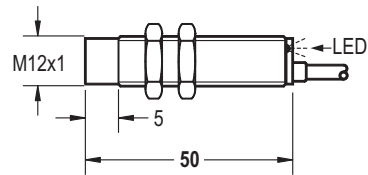


尺寸图 Dimension drawing(unit: mm)

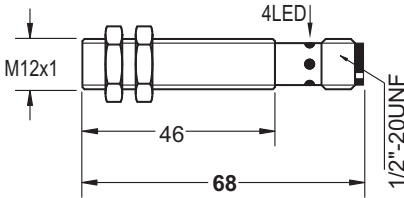
1



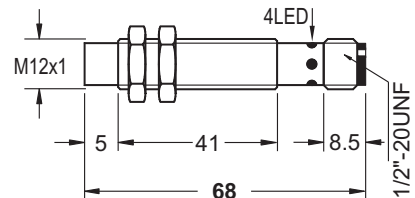
2



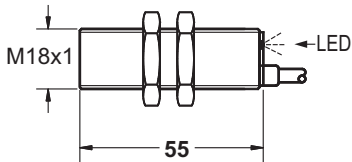
3



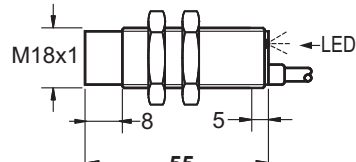
4



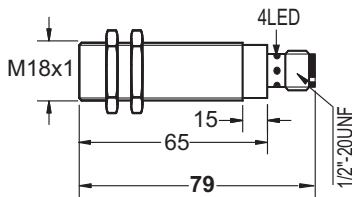
5



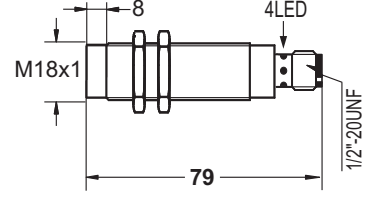
6



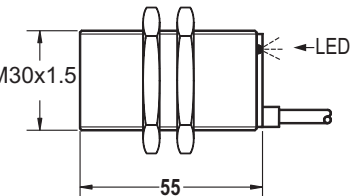
7



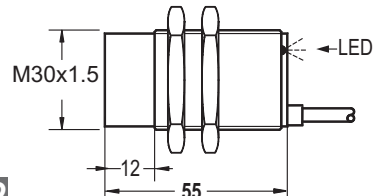
8



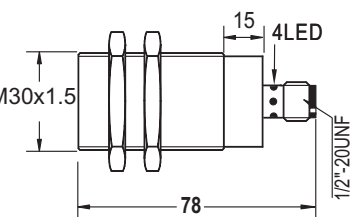
9



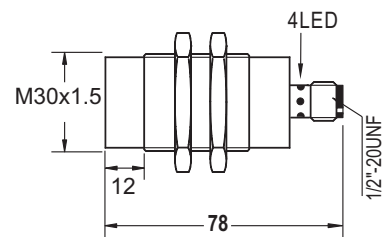
10



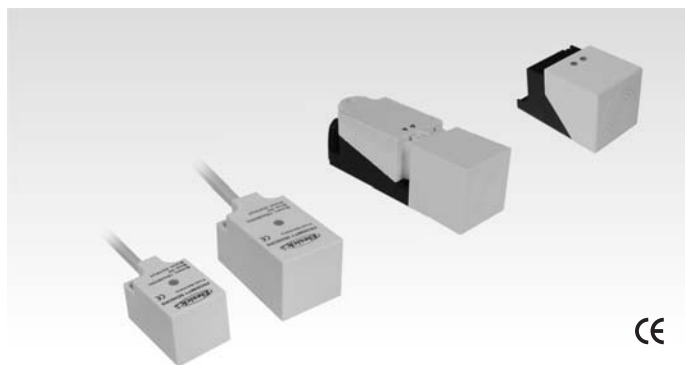
11



12



塑料 Q型 20~250VAC-Q25,Q30,Q40S,Q40



CE

特点描述/ Feature Description

- ◆ 电源电压: 20~250VAC
Power supply:20~250VAC
- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 外壳材料: PBT
Housing material : PBT
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

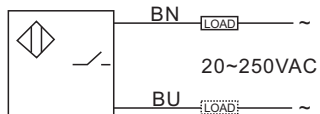
普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EE1Q2507AA2-P	Q25	7mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	1
EE1Q2507AB2-P	Q25	7mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	1
EE2Q2510AA2-P	Q25	10mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	1
EE2Q2510AB2-P	Q25	10mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	1
EE1Q3010AA2-P	Q30	10mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	2
EE1Q3010AB2-P	Q30	10mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	2
EE2Q3015AA2-P	Q30	15mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	2
EE2Q3015AB2-P	Q30	15mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	2
EE1Q40S15AAE-P	Q40s	15mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	3
EE1Q40S15ABE-P	Q40s	15mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	3
EE2Q40S20AAE-P	Q40s	20mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	3
EE2Q40S20ABE-P	Q40s	20mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	3
EE2Q40S30AAE-P	Q40s	30mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	3
EE2Q40S30ABE-P	Q40s	30mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	3
EE1Q4015AAT-P	Q40	15mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	Terminal mode	4
EE1Q4015ABT-P	Q40	15mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	Terminal mode	4
EE1Q4015ADT-P	Q40	15mm	●	AC	N.O.or N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	Terminal mode	4
EE2Q4020AAT-P	Q40	20mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	Terminal mode	4
EE2Q4020ABT-P	Q40	20mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	Terminal mode	4
EE2Q4020ADT-P	Q40	20mm	○	AC	N.O.or N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	Terminal mode	4
EE2Q4030AAT-P	Q40	30mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	Terminal mode	4
EE2Q4030ABT-P	Q40	30mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	Terminal mode	4
EE2Q4030ADT-P	Q40	30mm	○	AC	N.O.or N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	Terminal mode	4
EE1Q4015AAE-P	Q40	15mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	5
EE1Q4015ABE-P	Q40	15mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	5
EE2Q4020AAE-P	Q40	20mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	5
EE2Q4020ABE-P	Q40	20mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	5
EE2Q4030AAE-P	Q40	30mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	5
EE2Q4030ABE-P	Q40	30mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	5

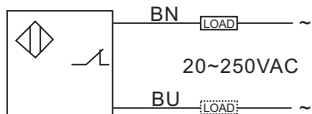
电气接线图 Connection diagram

电缆接线 / Connection diagrams

AC N.O.

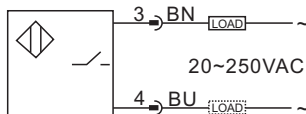


AC N.C.

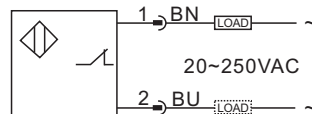


插接件接线 / Connection diagrams

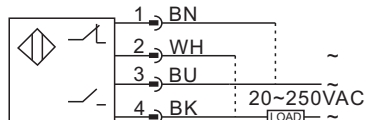
AC N.O.



AC N.C.

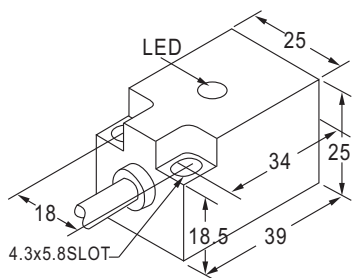


AC N.O. or N.C.

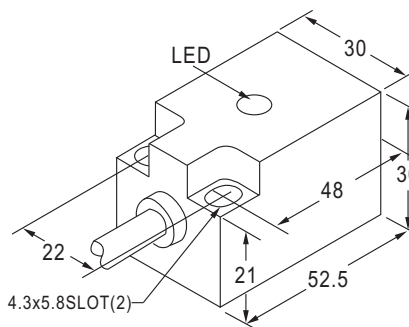


尺寸图 Dimension drawing(unit: mm)

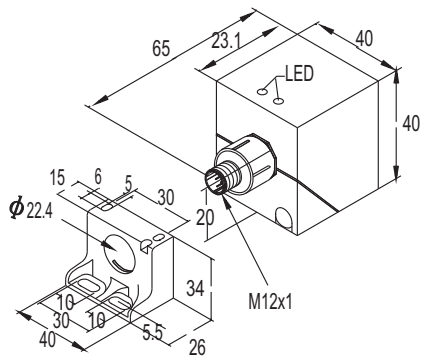
1 Q25



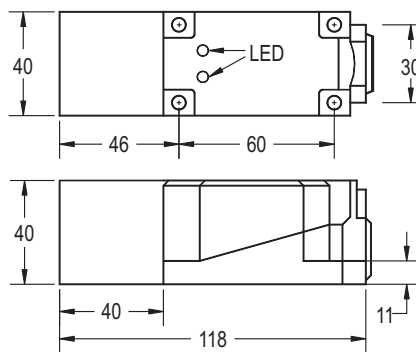
2 Q30



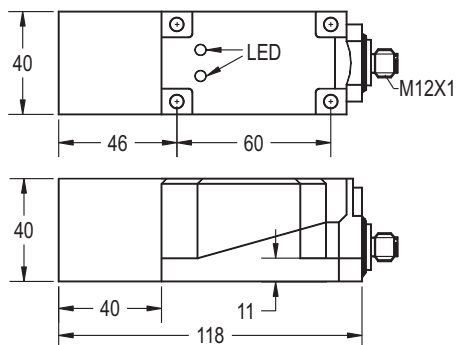
3 Q40s



4 Q40



5 Q40





特点描述/ Feature Description

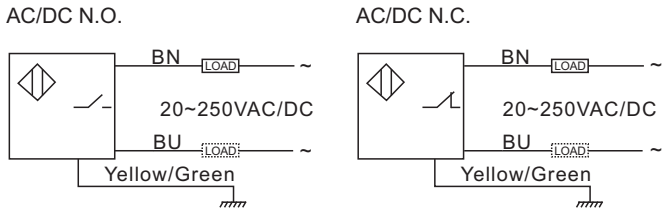
- ◆ 电源电压：20~250VAC/DC
Power supply:20~250VAC/DC
- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 外壳材料：不锈钢或铜镀镍
Housing material : Stainless steel or Nickel plated brass
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

普通距离选型/Normal Sensing:

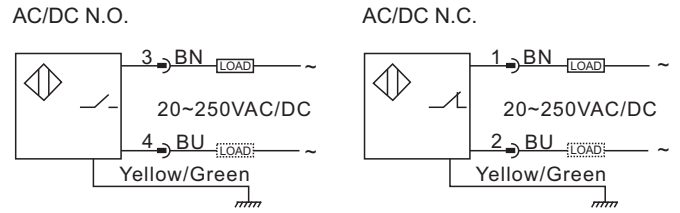
型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EF1M1202UA2-B □	M12	2mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	1
EF1M1202UC2-B □	M12	2mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	1
EF2M1204UA2-B □	M12	4mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	2
EF2M1204UC2-B □	M12	4mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	2
EF1M1202UAE-B □	M12	2mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	3
EF1M1202UCE-B □	M12	2mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	3
EF2M1204UAE-B □	M12	4mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	4
EF2M1204UCE-B □	M12	4mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	4
EF1M1805UA2-B □	M18	5mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	5
EF1M1805UC2-B □	M18	5mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	5
EF2M1808UA2-B □	M18	8mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	6
EF2M1808UC2-B □	M18	8mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	6
EF1M1805UAE-B □	M18	5mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	7
EF1M1805UCE-B □	M18	5mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	7
EF2M1808UAE-B □	M18	8mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	8
EF2M1808UCE-B □	M18	8mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	8
EF1M3010UA2-B □	M30	10mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	9
EF1M3010UC2-B □	M30	10mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	9
EF2M3015UA2-B □	M30	15mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	10
EF2M3015UC2-B □	M30	15mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	10
EF1M3010UAE-B □	M30	10mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	11
EF1M3010UCE-B □	M30	10mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	11
EF2M3015UAE-B □	M30	15mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	12
EF2M3015UCE-B □	M30	15mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	12

电气接线图 Connection diagram

电缆接线 / Connection diagrams

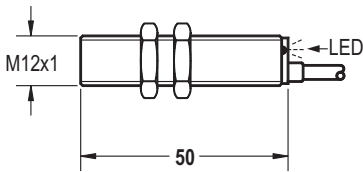


插插件接线 / Connection diagrams

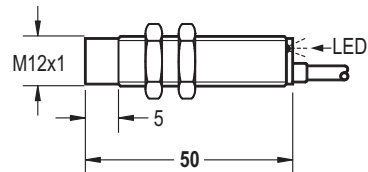


尺寸图 Dimension drawing(unit: mm)

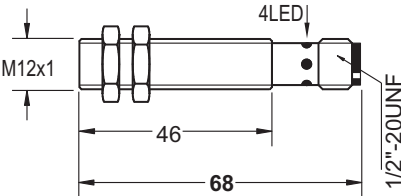
1



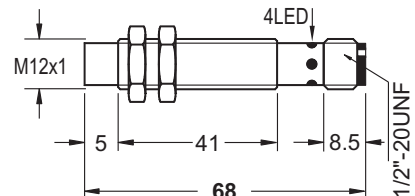
2



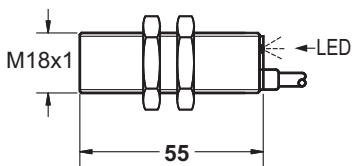
3



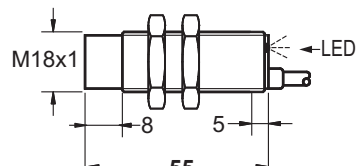
4



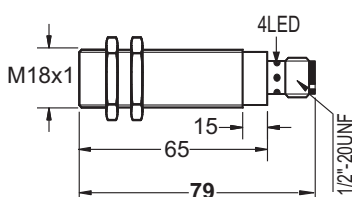
5



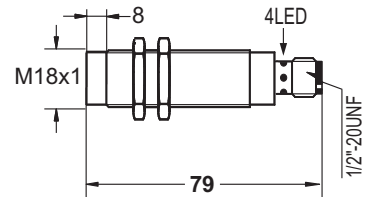
6



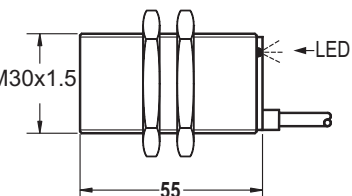
7



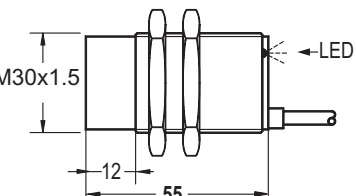
8



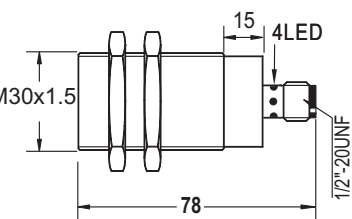
9



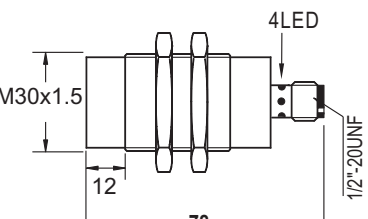
10



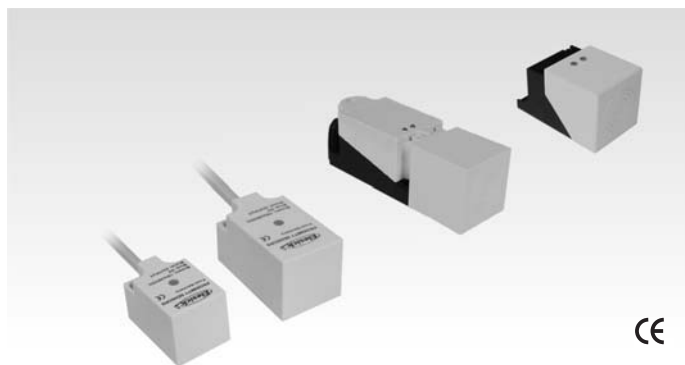
11



12



Q型 20~250VAC/DC-Q25,Q30,Q40S,Q40



特点描述/ Feature Description

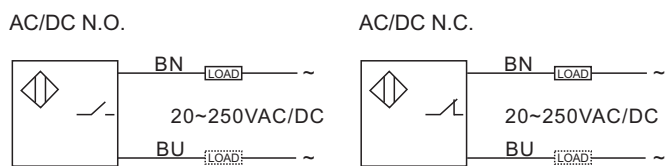
- ◆ 电源电压: 20~250VAC/DC
Power supply: 20~250VAC/DC
- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 外壳材料: PBT
Housing material: PBT
- ◆ 防护等级 IP67(IEC)
Protection degree: IP67 (IEC)

普通距离选型/Normal Sensing:

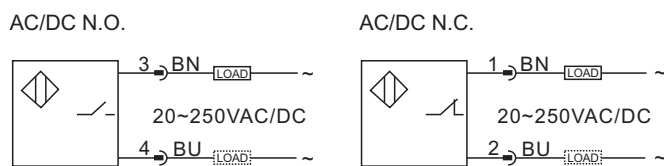
型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
EF1Q2507UA2-P	Q25	7mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	1
EF1Q2507UB2-P	Q25	7mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	1
EF2Q2510UA2-P	Q25	10mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	1
EF2Q2510UB2-P	Q25	10mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	1
EF1Q3010UA2-P	Q30	10mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	2
EF1Q3010UB2-P	Q30	10mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	2
EF2Q3015UA2-P	Q30	15mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	2
EF2Q3015UB2-P	Q30	15mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	2
EF1Q40S15UAE-P	Q40s	15mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	3
EF1Q40S15UBE-P	Q40s	15mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	3
EF2Q40S20UAE-P	Q40s	20mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	3
EF2Q40S20UBE-P	Q40s	20mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	3
EF2Q40S30UAE-P	Q40s	30mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	3
EF2Q40S30UBE-P	Q40s	30mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	3
EF1Q4015UAT-P	Q40	15mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	Terminal mode	4
EF1Q4015UBT-P	Q40	15mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	Terminal mode	4
EF1Q4015UDT-P	Q40	15mm	●	AC/DC	N.O. or N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	Terminal mode	4
EF2Q4020UAT-P	Q40	20mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	Terminal mode	4
EF2Q4020UBT-P	Q40	20mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	Terminal mode	4
EF2Q4020UDT-P	Q40	20mm	○	AC/DC	N.O. or N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	Terminal mode	4
EF2Q4030UAT-P	Q40	30mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	Terminal mode	4
EF2Q4030UBT-P	Q40	30mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	Terminal mode	4
EF2Q4030UDT-P	Q40	30mm	○	AC/DC	N.O. or N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	Terminal mode	4
EE1Q4015UAE-P	Q40	15mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	5
EE1Q4015UBE-P	Q40	15mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	5
EE2Q4020UAE-P	Q40	20mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	5
EE2Q4020UBE-P	Q40	20mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	5
EE2Q4030UAE-P	Q40	30mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	5
EE2Q4030UBE-P	Q40	30mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	5

电气接线图 Connection diagram

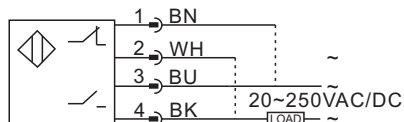
电缆接线 / Connection diagrams



插接件接线 / Connection diagrams

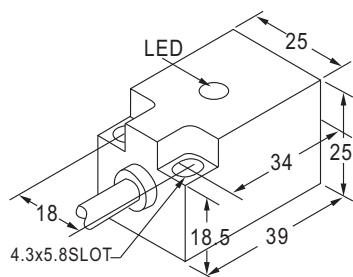


AC/DC N.O. or N.C.

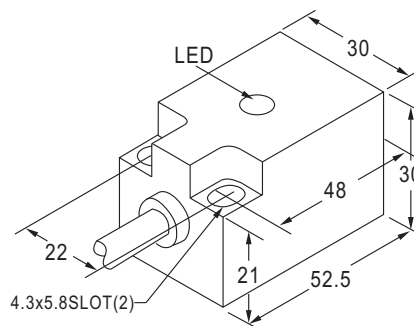


尺寸图 Dimension drawing (unit: mm)

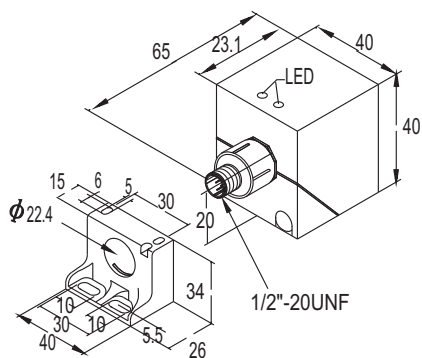
1 Q25



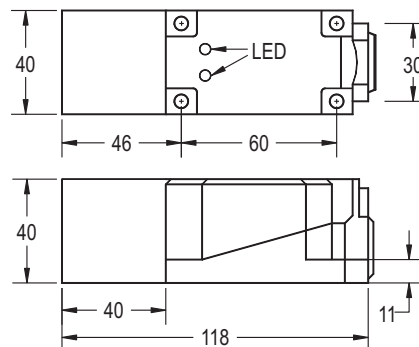
2 Q30



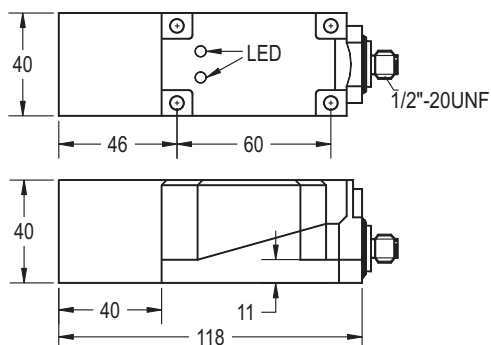
3 Q40s

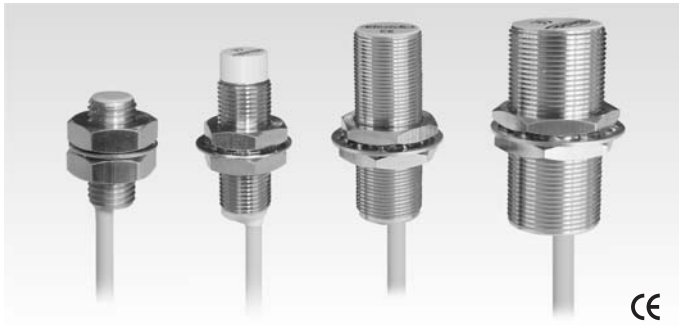


4 Q40



5 Q40





特点描述/ Feature Description

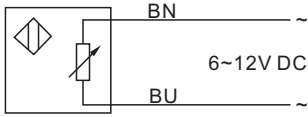
- 电源电压: 6-12V
Power supply:6-12V
- 能检测各种金属物体
Detect various metal material
- 外壳材料: 不锈钢或铜镀镍或 PBT
Housing material : Stainless steel or Nickel plated brass or PBT
- 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

普通距离选型/Normal Sensing:

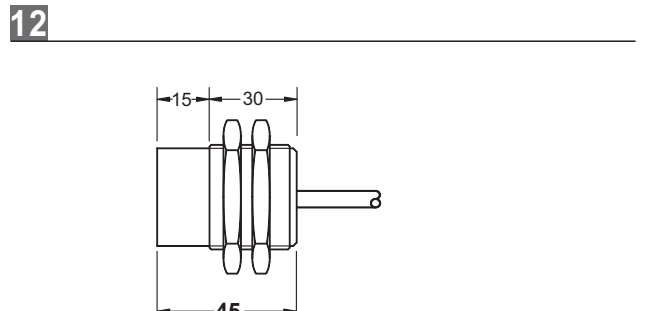
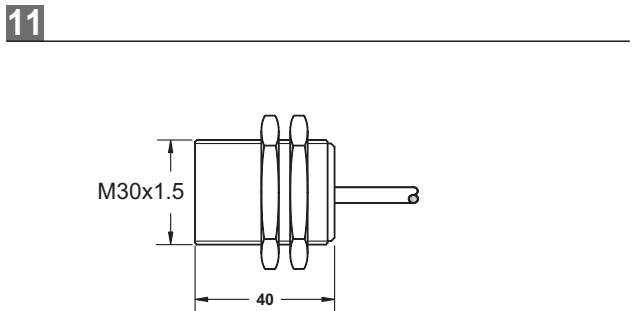
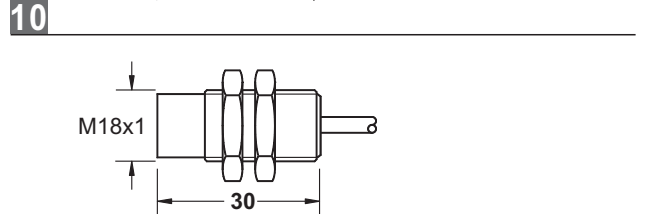
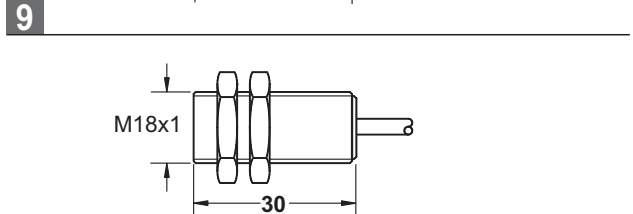
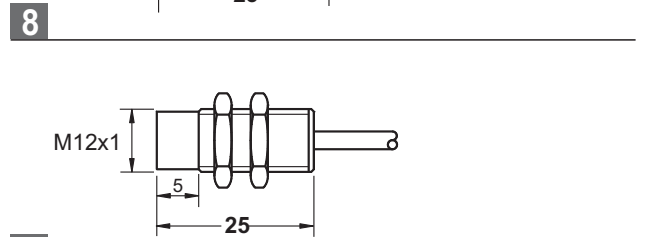
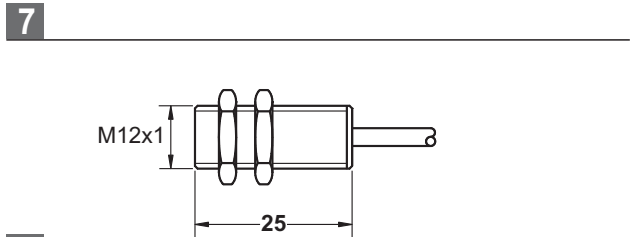
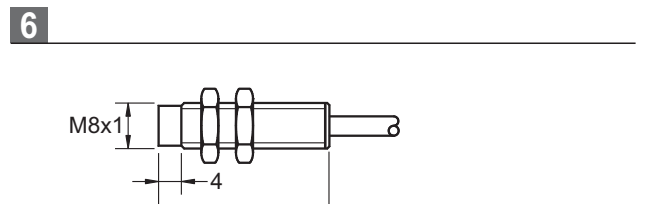
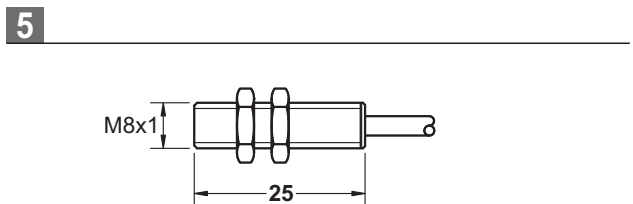
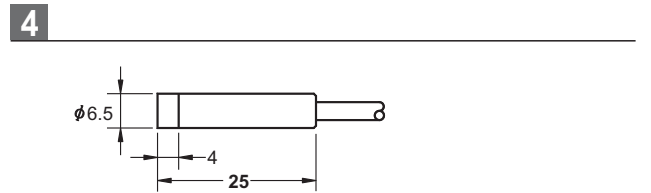
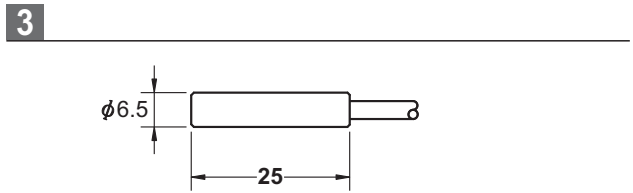
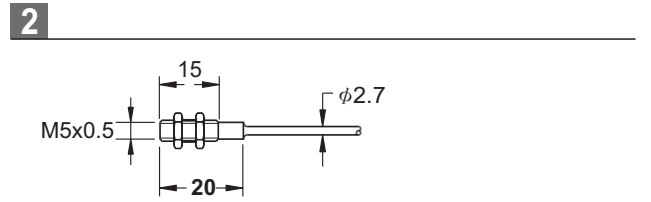
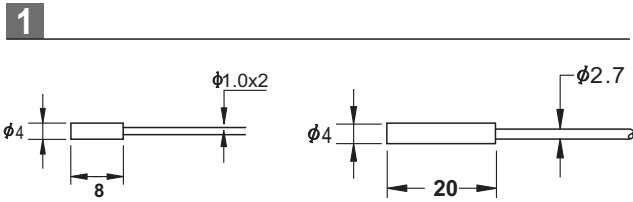
型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
ND1D040.6MU1-S□	D4	0.6mm	●	NAMUR	>2.2mA(OFF)<1.1mA(ON)	6-12V		2KHZ	-25℃~+70℃	1M PVC Cable	1
ND1D040.8MU1-S□	D4	0.8mm	●	NAMUR	>2.2mA(OFF)<1.1mA(ON)	6-12V		2KHZ	-25℃~+70℃	1M PVC Cable	1
ND1D040.8MU2-S□	D4	0.8mm	●	NAMUR	>2.2mA(OFF)<1.1mA(ON)	6-12V		2KHZ	-25℃~+70℃	2M PVC Cable	1
ND1M050.8MU2-S□	M5	0.8mm	●	NAMUR	>2.2mA(OFF)<1.1mA(ON)	6-12V		2KHZ	-25℃~+70℃	2M PVC Cable	2
ND1M050.1MU2-S□	M5	1mm	●	NAMUR	>2.2mA(OFF)<1.1mA(ON)	6-12V		2KHZ	-25℃~+70℃	2M PVC Cable	2
ND1D6.501MU2-S□	D6.5	1mm	●	NAMUR	>2.2mA(OFF)<1.1mA(ON)	6-12V		2KHZ	-25℃~+70℃	2M PVC Cable	3
ND2D6.502MU2-S□	D6.5	2mm	○	NAMUR	>2.2mA(OFF)<1.1mA(ON)	6-12V		2KHZ	-25℃~+70℃	2M PVC Cable	4
ND1M080.1MU2-B□	M8	1mm	●	NAMUR	>2.2mA(OFF)<1.1mA(ON)	6-12V		2KHZ	-25℃~+70℃	2M PVC Cable	5
ND2M080.2MU2-B□	M8	2mm	○	NAMUR	>2.2mA(OFF)<1.1mA(ON)	6-12V		2KHZ	-25℃~+70℃	2M PVC Cable	6
ND1M120.2MU2-B□	M12	2mm	●	NAMUR	>2.2mA(OFF)<1.1mA(ON)	6-12V		2KHZ	-25℃~+70℃	2M PVC Cable	7
ND2M120.4MU2-B□	M12	4mm	○	NAMUR	>2.2mA(OFF)<1.1mA(ON)	6-12V		2KHZ	-25℃~+70℃	2M PVC Cable	8
ND1M180.5MU2-B□	M18	5mm	●	NAMUR	>2.2mA(OFF)<1.1mA(ON)	6-12V		2KHZ	-25℃~+70℃	2M PVC Cable	9
ND2M180.8MU2-B□	M18	8mm	○	NAMUR	>2.2mA(OFF)<1.1mA(ON)	6-12V		2KHZ	-25℃~+70℃	2M PVC Cable	10
ND1M301.0MU2-B□	M30	10mm	●	NAMUR	>2.2mA(OFF)<1.1mA(ON)	6-12V		2KHZ	-25℃~+70℃	2M PVC Cable	11
ND2M301.5MU2-B□	M30	15mm	○	NAMUR	>2.2mA(OFF)<1.1mA(ON)	6-12V		2KHZ	-25℃~+70℃	2M PVC Cable	12

电气接线图 Connection diagram

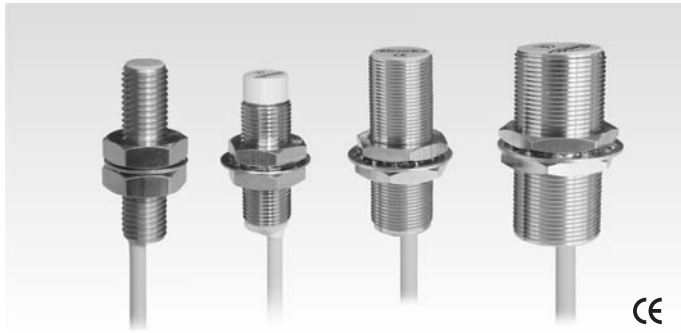
电缆接线 / Connection diagrams



尺寸图 Dimension drawing(unit: mm)



金属圆柱型 -M8,M12,M18,M30



特点描述/ Feature Description

- 电源电压: 18~30VDC
Power supply: 18-30VDC
- 输出标准模拟信号 0~10V, 0~20mA
0-10V, 0-20mA standard analog signal output
- 具有逆极性保护、浪涌保护功能
Surge and reverse polarity protection
- 外壳材料: 不锈钢或铜镀镍
Housing material: Stainless steel or Nickel plated brass
- 防护等级 IP67(IEC)
Protection degree: IP67 (IEC)



电流输出型/Current Output:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
GC1M081.5GI2-B□	M8	1~1.5mm	●	ANALOG	4-20mA/400Ω Max.	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	1
GC2M082.5GI2-B□	M8	1~2.5mm	○	ANALOG	4-20mA/400Ω Max.	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	1
GC1M081.5GIP-B□	M8	1~1.5mm	●	ANALOG	4-20mA/400Ω Max.	18-30V	100HZ	-25℃~+70℃	M8 Pico style	2
GC2M082.5GIP-B□	M8	1~2.5mm	○	ANALOG	4-20mA/400Ω Max.	18-30V	100HZ	-25℃~+70℃	M8 Pico style	2
GC1M1203GI2-B□	M12	1~3.0mm	●	ANALOG	4-20mA/400Ω Max.	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	3
GC2M1204GI2-B□	M12	1~4.0mm	○	ANALOG	4-20mA/400Ω Max.	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	3
GC1M1203GIE-B□	M12	1~3.0mm	●	ANALOG	4-20mA/400Ω Max.	18-30V	100HZ	-25℃~+70℃	M12 Euro style	4
GC2M1204GIE-B□	M12	1~4.0mm	○	ANALOG	4-20mA/400Ω Max.	18-30V	100HZ	-25℃~+70℃	M12 Euro style	4
GC1M1804GI2-B□	M18	1~4.0mm	●	ANALOG	0-20mA/200Ω Max.	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	5
GC2M1807GI2-B□	M18	1~7.0mm	○	ANALOG	0-20mA/200Ω Max.	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	5
GC1M1804GIE-B□	M18	1~4.0mm	●	ANALOG	0-20mA/200Ω Max.	18-30V	100HZ	-25℃~+70℃	M12 Euro style	6
GC2M1807GIE-B□	M18	1~7.0mm	○	ANALOG	0-20mA/200Ω Max.	18-30V	100HZ	-25℃~+70℃	M12 Euro style	6
GC1M3010GI2-B□	M30	5~10mm	●	ANALOG	0-20mA/200Ω Max.	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	7
GC2M3014GI2-B□	M30	7~14mm	○	ANALOG	0-20mA/200Ω Max.	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	7
GC1M3010GIE-B□	M30	5~10mm	●	ANALOG	0-20mA/200Ω Max.	18-30V	100HZ	-25℃~+70℃	M12 Euro style	8
GC2M3014GIE-B□	M30	7~14mm	○	ANALOG	0-20mA/200Ω Max.	18-30V	100HZ	-25℃~+70℃	M12 Euro style	8

电压输出型/Voltage Output:

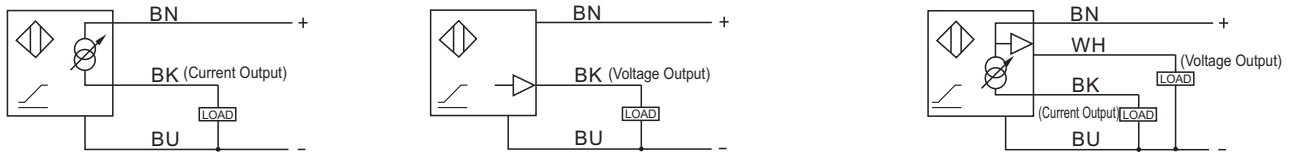
GC1M081.5GV2-B□	M8	0.1~1.5mm	●	ANALOG	0-10VDC/>2KΩ	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	1
GC2M082.5GV2-B□	M8	0.1~2.5mm	○	ANALOG	0-10VDC/>2KΩ	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	1
GC1M081.5GVP-B□	M8	0.1~1.5mm	●	ANALOG	0-10VDC/>2KΩ	18-30V	100HZ	-25℃~+70℃	M8 Pico style	2
GC2M082.5GVP-B□	M8	0.1~2.5mm	○	ANALOG	0-10VDC/>2KΩ	18-30V	100HZ	-25℃~+70℃	M8 Pico style	2
GC1M1203GV2-B□	M12	0.1~3.0mm	●	ANALOG	0-10VDC/>2KΩ	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	3
GC2M1204GV2-B□	M12	0.1~4.0mm	○	ANALOG	0-10VDC/>2KΩ	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	3
GC1M1203GVE-B□	M12	0.1~3.0mm	●	ANALOG	0-10VDC/>2KΩ	18-30V	100HZ	-25℃~+70℃	M12 Euro style	4
GC2M1204GVE-B□	M12	0.1~4.0mm	○	ANALOG	0-10VDC/>2KΩ	18-30V	100HZ	-25℃~+70℃	M12 Euro style	4
GC1M1804GV2-B□	M18	1.0~4.0mm	●	ANALOG	0-10VDC/>4.7KΩ	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	5
GC2M1807GV2-B□	M18	1.0~7.0mm	○	ANALOG	0-10VDC/>4.7KΩ	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	5
GC1M1804GVE-B□	M18	1.0~4.0mm	●	ANALOG	0-10VDC/>4.7KΩ	18-30V	100HZ	-25℃~+70℃	M12 Euro style	6
GC2M1807GVE-B□	M18	1.0~7.0mm	○	ANALOG	0-10VDC/>4.7KΩ	18-30V	100HZ	-25℃~+70℃	M12 Euro style	6
GC1M3010GV2-B□	M30	5.0~10mm	●	ANALOG	0-10VDC/>4.7KΩ	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	7
GC2M3014GV2-B□	M30	7.0~14mm	○	ANALOG	0-10VDC/>4.7KΩ	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	7
GC1M3010GVE-B□	M30	5.0~10mm	●	ANALOG	0-10VDC/>4.7KΩ	18-30V	100HZ	-25℃~+70℃	M12 Euro style	8
GC2M3014GVE-B□	M30	7.0~14mm	○	ANALOG	0-10VDC/>4.7KΩ	18-30V	100HZ	-25℃~+70℃	M12 Euro style	8

电流输出+电压输出型/Current Output & Voltage Output:

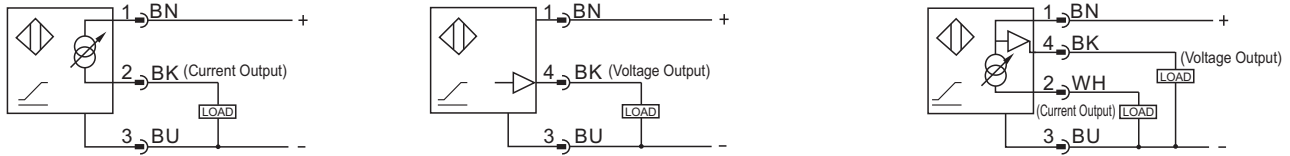
GC1M081.5GM2-B□	M8	0.1~1.5mm	●	ANALOG	4-20mA/400Ω Max.& 0-10VDC/>2KΩ	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	1
GC2M082.5GM2-B□	M8	0.1~2.5mm	○	ANALOG	4-20mA/400Ω Max.& 0-10VDC/>2KΩ	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	1
GC1M081.5GMP-B□	M8	0.1~1.5mm	●	ANALOG	4-20mA/400Ω Max.& 0-10VDC/>2KΩ	18-30V	100HZ	-25℃~+70℃	M8 Pico style	2
GC2M082.5GMP-B□	M8	0.1~2.5mm	○	ANALOG	4-20mA/400Ω Max.& 0-10VDC/>2KΩ	18-30V	100HZ	-25℃~+70℃	M8 Pico style	2
GC1M1203GM2-B□	M12	0.1~3.0mm	●	ANALOG	4-20mA/400Ω Max.& 0-10VDC/>2KΩ	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	3
GC2M1204GM2-B□	M12	0.1~4.0mm	○	ANALOG	4-20mA/400Ω Max.& 0-10VDC/>2KΩ	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	3
GC1M1203GME-B□	M12	0.1~3.0mm	●	ANALOG	4-20mA/400Ω Max.& 0-10VDC/>2KΩ	18-30V	100HZ	-25℃~+70℃	M12 Euro style	4
GC2M1204GME-B□	M12	0.1~4.0mm	○	ANALOG	4-20mA/400Ω Max.& 0-10VDC/>2KΩ	18-30V	100HZ	-25℃~+70℃	M12 Euro style	4
GC1M1804GM2-B□	M18	1.0~4.0mm	●	ANALOG	0-20mA/200Ω Max.& 0-10VDC/>4.7KΩ	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	5
GC2M1807GM2-B□	M18	1.0~7.0mm	○	ANALOG	0-20mA/200Ω Max.& 0-10VDC/>4.7KΩ	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	5
GC1M1804GME-B□	M18	1.0~4.0mm	●	ANALOG	0-20mA/200Ω Max.& 0-10VDC/>4.7KΩ	18-30V	100HZ	-25℃~+70℃	M12 Euro style	6
GC2M1807GME-B□	M18	1.0~7.0mm	○	ANALOG	0-20mA/200Ω Max.& 0-10VDC/>4.7KΩ	18-30V	100HZ	-25℃~+70℃	M12 Euro style	6
GC1M3010GM2-B□	M30	5.0~10mm	●	ANALOG	0-20mA/200Ω Max.& 0-10VDC/>4.7KΩ	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	7
GC2M3014GM2-B□	M30	7.0~14mm	○	ANALOG	0-20mA/200Ω Max.& 0-10VDC/>4.7KΩ	18-30V	100HZ	-25℃~+70℃	2M PVC Cable	7
GC1M3010GME-B□	M30	5.0~10mm	●	ANALOG	0-20mA/200Ω Max.& 0-10VDC/>4.7KΩ	18-30V	100HZ	-25℃~+70℃	M12 Euro style	8
GC2M3014GME-B□	M30	7.0~14mm	○	ANALOG	0-20mA/200Ω Max.& 0-10VDC/>4.7KΩ	18-30V	100HZ	-25℃~+70℃	M12 Euro style	8

电气接线图 Connection diagram

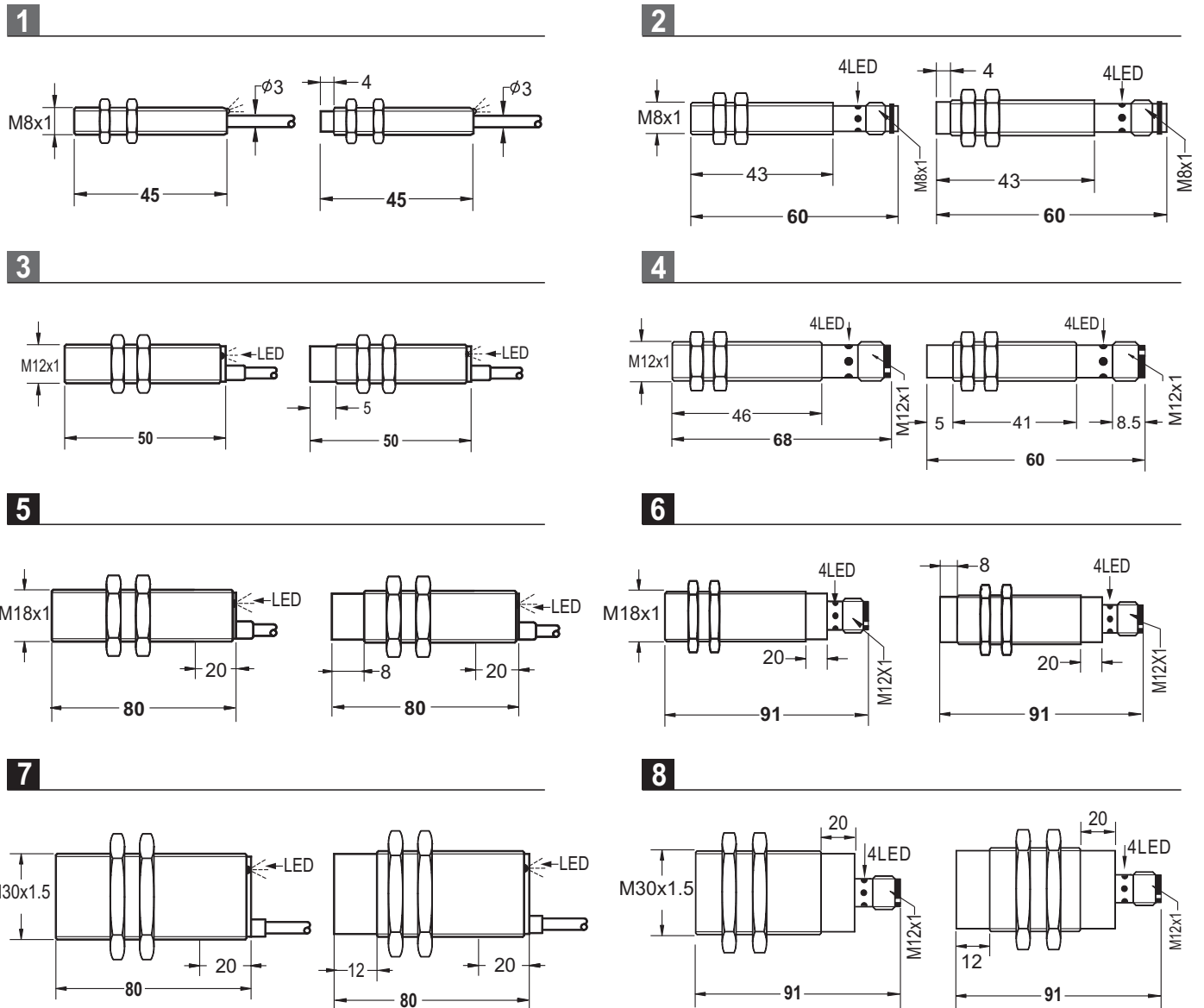
电缆接线 / Connection diagrams



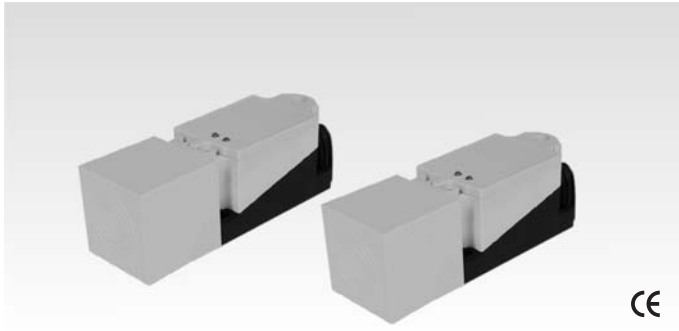
插接件接线 / Connection diagrams



尺寸图 Dimension drawing (unit: mm)



塑料 Q型 -Q40



特点描述/ Feature Description

- ◆ 电源电压: 18~30VDC
Power supply: 18-30VDC
- ◆ 输出标准模拟信号 0~10V, 0~20mA
0-10V, 0-20mA standard analog signal output
- ◆ 具有逆极性保护、浪涌保护功能
Surge and reverse polarity protection
- ◆ 外壳材料: PBT
Housing material: PBT
- ◆ 防护等级 IP67(IEC)
Protection degree: IP67 (IEC)

电流输出型/Current Output:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
GC1Q4015GIT-P□	Q40	6~15mm	●	ANALOG	0-20mA/200Ω Max.	18-30V	100HZ	-25℃~+70℃	Terminal mode	1
GC2Q4020GIT-P□	Q40	7~20mm	○	ANALOG	0-20mA/200Ω Max.	18-30V	100HZ	-25℃~+70℃	Terminal mode	1
GC1Q4015GIE-P□	Q40	6~15mm	●	ANALOG	0-20mA/200Ω Max.	18-30V	100HZ	-25℃~+70℃	M12 Euro style	2
GC2Q4020GIE-P□	Q40	7~20mm	○	ANALOG	0-20mA/200Ω Max.	18-30V	100HZ	-25℃~+70℃	M12 Euro style	2

电压输出型/Voltage Output:

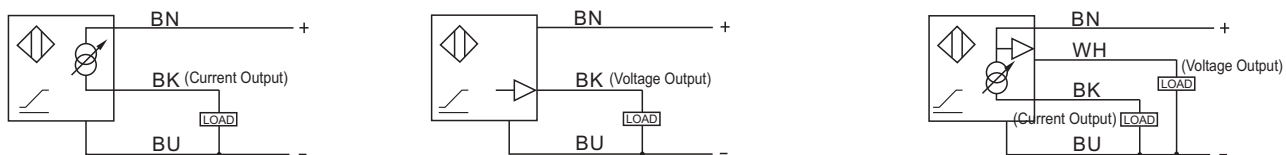
GC1Q4015GVT-P□	Q40	6~15mm	●	ANALOG	0-10VDC/>4.7KΩ	18-30V	100HZ	-25℃~+70℃	Terminal mode	1
GC2Q4020GVT-P□	Q40	7~20mm	○	ANALOG	0-10VDC/>4.7KΩ	18-30V	100HZ	-25℃~+70℃	Terminal mode	1
GC1Q4015GVE-P□	Q40	6~15mm	●	ANALOG	0-10VDC/>4.7KΩ	18-30V	100HZ	-25℃~+70℃	M12 Euro style	2
GC2Q4020GVE-P□	Q40	7~20mm	○	ANALOG	0-10VDC/>4.7KΩ	18-30V	100HZ	-25℃~+70℃	M12 Euro style	2

电流输出+电压输出型/Current Output & Voltage Output:

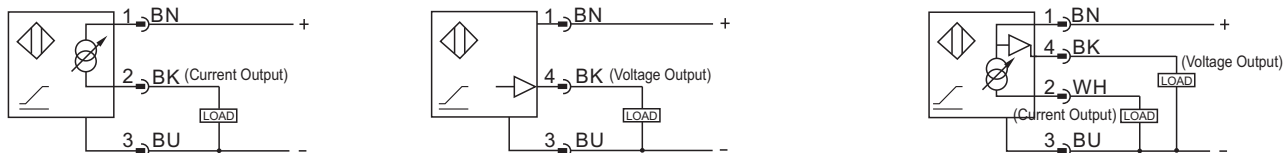
GC1Q4015GMT-P□	Q40	6~15mm	●	ANALOG	4-20mA/400Ω Max. & 0-10VDC/>2KΩ	18-30V	100HZ	-25℃~+70℃	Terminal mode	1
GC2Q4020GMT-P□	Q40	7~20mm	○	ANALOG	4-20mA/400Ω Max. & 0-10VDC/>2KΩ	18-30V	100HZ	-25℃~+70℃	Terminal mode	1
GC1Q4015GME-P□	Q40	6~15mm	●	ANALOG	4-20mA/400Ω Max. & 0-10VDC/>2KΩ	18-30V	100HZ	-25℃~+70℃	M12 Euro style	2
GC2Q4020GME-P□	Q40	7~20mm	○	ANALOG	4-20mA/400Ω Max. & 0-10VDC/>2KΩ	18-30V	100HZ	-25℃~+70℃	M12 Euro style	2

电气接线图 Connection diagram

电缆接线 / Connection diagrams

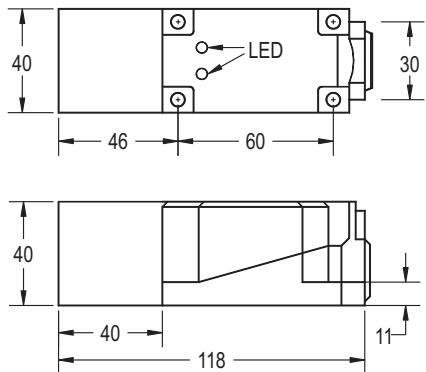


插接件接线 / Connection diagrams

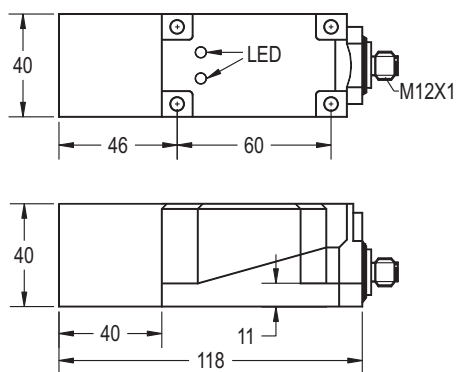


尺寸图 Dimension drawing (unit: mm)

1



2



金属感应面 3线式-M8



特点描述/ Feature Description

- ◆ 不锈钢材料一体化设计耐腐蚀及抗机械碰撞
All-in-one stainless steel design, Mechanical collision avoidance and corrosion resistance
- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: 不锈钢
Housing material : Stainless steel
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
FA1M0801NA2-S □	M8	1mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
FA1M0801NB2-S □	M8	1mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
FA1M0801PA2-S □	M8	1mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
FA1M0801PB2-S □	M8	1mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
FA2M0802NA2-S □	M8	2mm	○	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
FA2M0802NB2-S □	M8	2mm	○	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
FA2M0802PA2-S □	M8	2mm	○	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
FA2M0802PB2-S □	M8	2mm	○	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
FA1M0801NAP-S □	M8	1mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
FA1M0801NBP-S □	M8	1mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
FA1M0801PAP-S □	M8	1mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
FA1M0801PBP-S □	M8	1mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
FA2M0802NAP-S □	M8	2mm	○	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	4
FA2M0802NBP-S □	M8	2mm	○	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	4
FA2M0802PAP-S □	M8	2mm	○	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	4
FA2M0802PBP-S □	M8	2mm	○	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	4

两倍距离选型/Extended Sensing:

FA1M0802NA2-S □	M8	2mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
FA1M0802NB2-S □	M8	2mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
FA1M0802PA2-S □	M8	2mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
FA1M0802PB2-S □	M8	2mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
FA1M0802NAP-S □	M8	2mm	○	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
FA1M0802NBP-S □	M8	2mm	○	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
FA1M0802PAP-S □	M8	2mm	○	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
FA1M0802PBP-S □	M8	2mm	○	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3

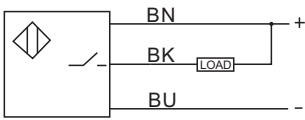
长距离选型/Long Sensing:

FA1M0803NA2-S □	M8	3mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
FA1M0803NB2-S □	M8	3mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
FA1M0803PA2-S □	M8	3mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
FA1M0803PB2-S □	M8	3mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
FA1M0803NAP-S □	M8	3mm	○	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	3
FA1M0803NBP-S □	M8	3mm	○	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	3
FA1M0803PAP-S □	M8	3mm	○	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	3
FA1M0803PBP-S □	M8	3mm	○	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M8 Pico style	3

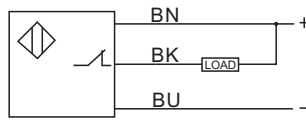
电气接线图 Connection diagram

电缆接线 / Connection diagrams

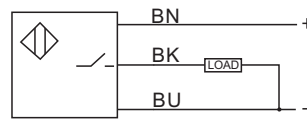
DC 3 Wire NPN-N.O.



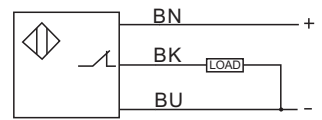
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

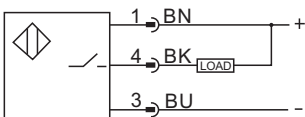


DC 3 Wire PNP-N.C.

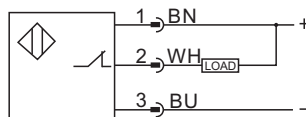


插接件接线 / Connection diagrams

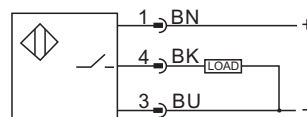
DC 3 Wire NPN-N.O.



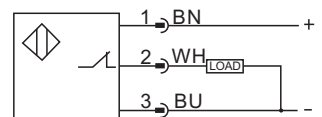
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

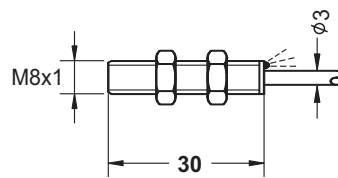
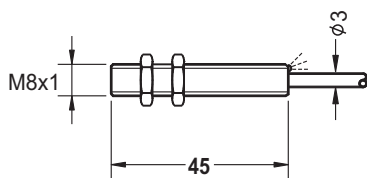


DC 3 Wire PNP-N.C.

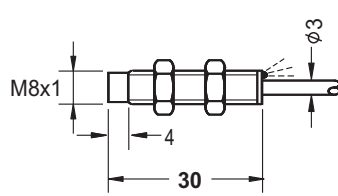
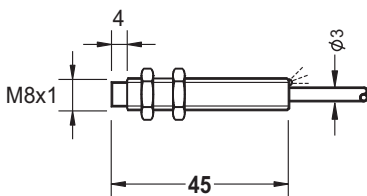


尺寸图 Dimension drawing (unit: mm)

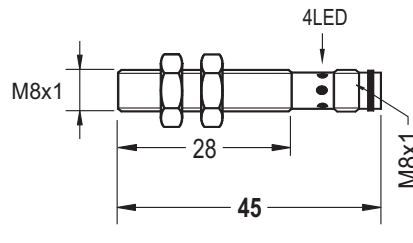
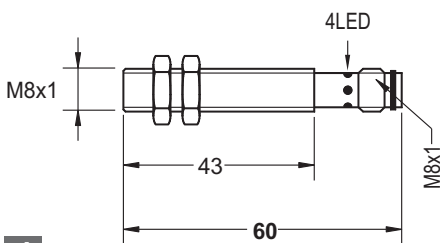
1



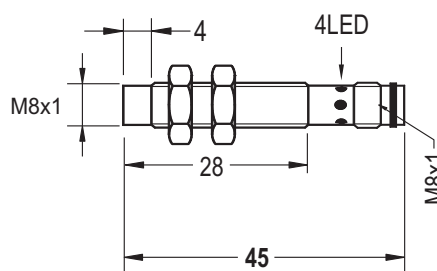
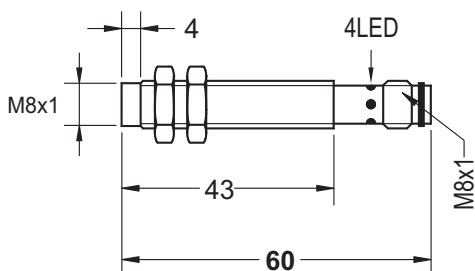
2



3



4



金属感应面 3线式-M12



特点描述/ Feature Description

- 不锈钢材料一体化设计耐腐蚀及抗机械碰撞
All-in-one stainless steel design, Mechanical collision avoidance and corrosion resistance
- 能检测各种金属物体
Detect various metal material
- 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- 外壳材料: 不锈钢
Housing material: Stainless steel
- 防护等级 IP67(IEC)
Protection degree: IP67 (IEC)

普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
FA1M1202NA2-B □	M12	2mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
FA1M1202NB2-B □	M12	2mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
FA1M1202PA2-B □	M12	2mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
FA1M1202PB2-B □	M12	2mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
FA2M1204NA2-B □	M12	4mm	○	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
FA2M1204NB2-B □	M12	4mm	○	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
FA2M1204PA2-B □	M12	4mm	○	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
FA2M1204PB2-B □	M12	4mm	○	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
FA1M1202NAE-B □	M12	2mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M12 Euro style	3
FA1M1202NBE-B □	M12	2mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M12 Euro style	3
FA1M1202PAE-B □	M12	2mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M12 Euro style	3
FA1M1202PBE-B □	M12	2mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M12 Euro style	3
FA2M1204NAE-B □	M12	4mm	○	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	4
FA2M1204NBE-B □	M12	4mm	○	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	4
FA2M1204PAE-B □	M12	4mm	○	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	4
FA2M1204PBE-B □	M12	4mm	○	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	4

两倍距离选型/Extended Sensing:

FA1M1204NA2-B □	M12	4mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
FA1M1204NB2-B □	M12	4mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
FA1M1204PA2-B □	M12	4mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
FA1M1204PB2-B □	M12	4mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
FA2M1208NA2-B □	M12	8mm	○	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
FA2M1208NB2-B □	M12	8mm	○	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
FA2M1208PA2-B □	M12	8mm	○	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
FA2M1208PB2-B □	M12	8mm	○	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
FA1M1204NAE-B □	M12	4mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
FA1M1204NBE-B □	M12	4mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
FA1M1204PAE-B □	M12	4mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
FA1M1204PBE-B □	M12	4mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
FA2M1208NAE-B □	M12	8mm	○	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4
FA2M1208NBE-B □	M12	8mm	○	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4
FA2M1208PAE-B □	M12	8mm	○	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4
FA2M1208PBE-B □	M12	8mm	○	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4

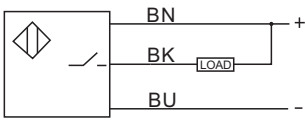
三倍距离选型/Long Sensing:

FA1M1206NA2-B □	M12	6mm	●	NPN	N.O.	10-30V	200mA	800HZ	-25℃~+70℃	2M PVC Cable	1
FA1M1206NB2-B □	M12	6mm	●	NPN	N.C.	10-30V	200mA	800HZ	-25℃~+70℃	2M PVC Cable	1
FA1M1206PA2-B □	M12	6mm	●	PNP	N.O.	10-30V	200mA	800HZ	-25℃~+70℃	2M PVC Cable	1
FA1M1206PB2-B □	M12	6mm	●	PNP	N.C.	10-30V	200mA	800HZ	-25℃~+70℃	2M PVC Cable	1
FA2M1210NA2-B □	M12	10mm	○	NPN	N.O.	10-30V	200mA	400HZ	-25℃~+70℃	2M PVC Cable	2
FA2M1210NB2-B □	M12	10mm	○	NPN	N.C.	10-30V	200mA	400HZ	-25℃~+70℃	2M PVC Cable	2
FA2M1210PA2-B □	M12	10mm	○	PNP	N.O.	10-30V	200mA	400HZ	-25℃~+70℃	2M PVC Cable	2
FA2M1210PB2-B □	M12	10mm	○	PNP	N.C.	10-30V	200mA	400HZ	-25℃~+70℃	2M PVC Cable	2
FA1M1206NAE-B □	M12	6mm	●	NPN	N.O.	10-30V	200mA	800HZ	-25℃~+70℃	M12 Euro style	3
FA1M1206NBE-B □	M12	6mm	●	NPN	N.C.	10-30V	200mA	800HZ	-25℃~+70℃	M12 Euro style	3
FA1M1206PAE-B □	M12	6mm	●	PNP	N.O.	10-30V	200mA	800HZ	-25℃~+70℃	M12 Euro style	3
FA1M1206PBE-B □	M12	6mm	●	PNP	N.C.	10-30V	200mA	800HZ	-25℃~+70℃	M12 Euro style	3
FA2M1210NAE-B □	M12	10mm	○	NPN	N.O.	10-30V	200mA	400HZ	-25℃~+70℃	M12 Euro style	4
FA2M1210NBE-B □	M12	10mm	○	NPN	N.C.	10-30V	200mA	400HZ	-25℃~+70℃	M12 Euro style	4
FA2M1210PAE-B □	M12	10mm	○	PNP	N.O.	10-30V	200mA	400HZ	-25℃~+70℃	M12 Euro style	4
FA2M1210PBE-B □	M12	10mm	○	PNP	N.C.	10-30V	200mA	400HZ	-25℃~+70℃	M12 Euro style	4

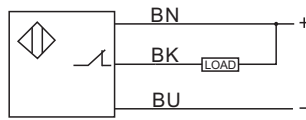
电气接线图 Connection diagram

电缆接线 / Connection diagrams

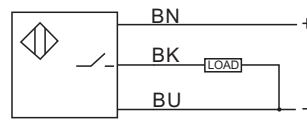
DC 3 Wire NPN-N.O.



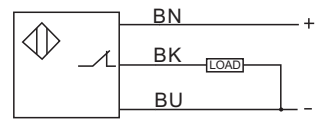
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

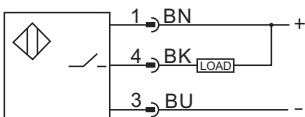


DC 3 Wire PNP-N.C.

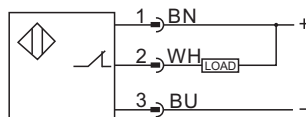


插接件接线 / Connection diagrams

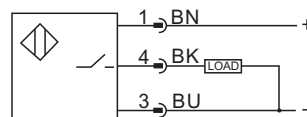
DC 3 Wire NPN-N.O.



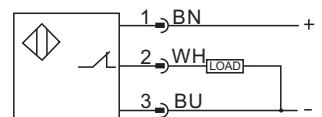
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

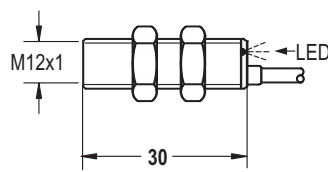
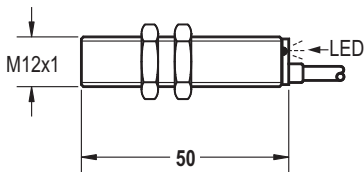


DC 3 Wire PNP-N.C.

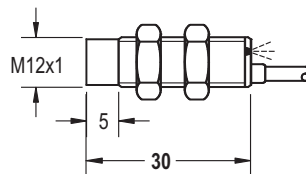
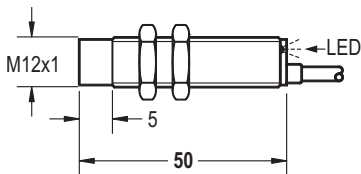


尺寸图 Dimension drawing (unit: mm)

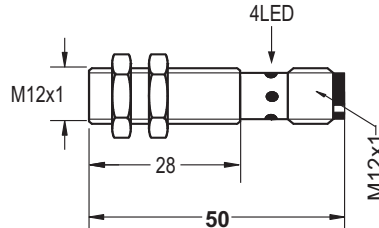
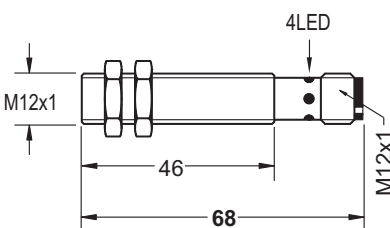
1



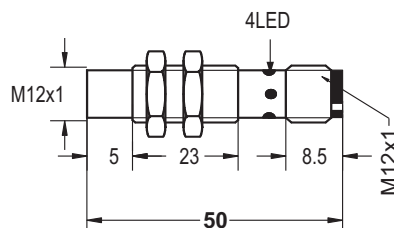
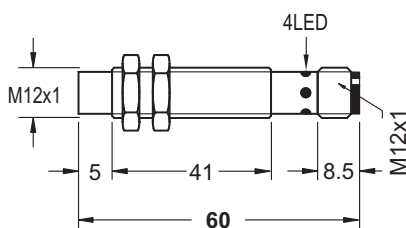
2



3



4



金属感应面 3线式-M18



特点描述/ Feature Description

- 不锈钢材料一体化设计耐腐蚀及抗机械碰撞
All-in-one stainless steel design, Mechanical collision avoidance and corrosion resistance
- 能检测各种金属物体
Detect various metal material
- 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- 外壳材料: 不锈钢
Housing material : Stainless steel
- 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
FA1M1805NA2-B □	M18	5mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
FA1M1805NB2-B □	M18	5mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
FA1M1805PA2-B □	M18	5mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
FA1M1805PB2-B □	M18	5mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
FA2M1808NA2-B □	M18	8mm	○	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
FA2M1808NB2-B □	M18	8mm	○	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
FA2M1808PA2-B □	M18	8mm	○	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
FA2M1808PB2-B □	M18	8mm	○	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
FA1M1805NAE-B □	M18	5mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
FA1M1805NBE-B □	M18	5mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
FA1M1805PAE-B □	M18	5mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
FA1M1805PBE-B □	M18	5mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
FA2M1808NAE-B □	M18	8mm	○	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4
FA2M1808NBE-B □	M18	8mm	○	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4
FA2M1808PAE-B □	M18	8mm	○	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4
FA2M1808PBE-B □	M18	8mm	○	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4

两倍距离选型/Extended Sensing:

FA1M1808NA2-B □	M18	8mm	●	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	1
FA1M1808NB2-B □	M18	8mm	●	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	1
FA1M1808PA2-B □	M18	8mm	●	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	1
FA1M1808PB2-B □	M18	8mm	●	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	1
FA2M1816NA2-B □	M18	16mm	○	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
FA2M1816NB2-B □	M18	16mm	○	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
FA2M1816PA2-B □	M18	16mm	○	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
FA2M1816PB2-B □	M18	16mm	○	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
FA1M1808NAE-B □	M18	8mm	●	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	3
FA1M1808NBE-B □	M18	8mm	●	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	3
FA1M1808PAE-B □	M18	8mm	●	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	3
FA1M1808PBE-B □	M18	8mm	●	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	3
FA2M1816NAE-B □	M18	16mm	○	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	4
FA2M1816NBE-B □	M18	16mm	○	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	4
FA2M1816PAE-B □	M18	16mm	○	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	4
FA2M1816PBE-B □	M18	16mm	○	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	4

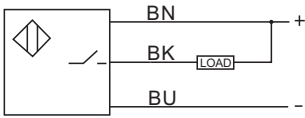
三倍距离选型/Long Sensing:

FA1M1812NA2-B □	M18	12mm	●	NPN	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	1
FA1M1812NB2-B □	M18	12mm	●	NPN	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	1
FA1M1812PA2-B □	M18	12mm	●	PNP	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	1
FA1M1812PB2-B □	M18	12mm	●	PNP	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	1
FA2M1820NA2-B □	M18	20mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
FA2M1820NB2-B □	M18	20mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
FA2M1820PA2-B □	M18	20mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
FA2M1820PB2-B □	M18	20mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
FA1M1812NAE-B □	M18	12mm	●	NPN	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	3
FA1M1812NBE-B □	M18	12mm	●	NPN	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	3
FA1M1812PAE-B □	M18	12mm	●	PNP	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	3
FA1M1812PBE-B □	M18	12mm	●	PNP	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	3
FA2M1820NAE-B □	M18	20mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
FA2M1820NBE-B □	M18	20mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
FA2M1820PAE-B □	M18	20mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
FA2M1820PBE-B □	M18	20mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4

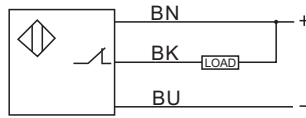
电气接线图 Connection diagram

电缆接线 / Connection diagrams

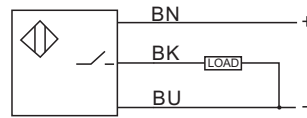
DC 3 Wire NPN-N.O.



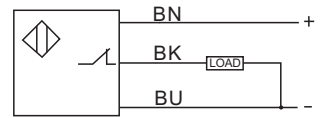
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

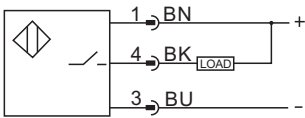


DC 3 Wire PNP-N.C.

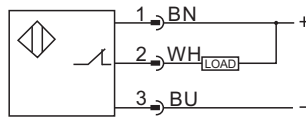


插接件接线 / Connection diagrams

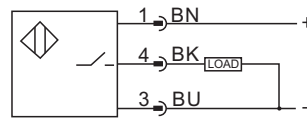
DC 3 Wire NPN-N.O.



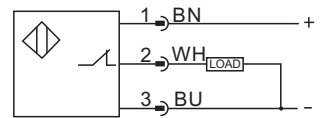
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

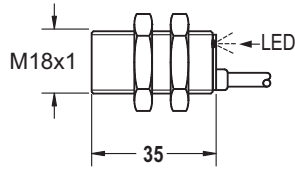
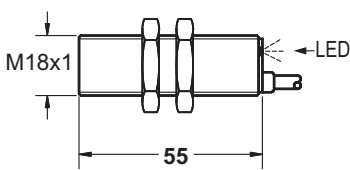


DC 3 Wire PNP-N.C.

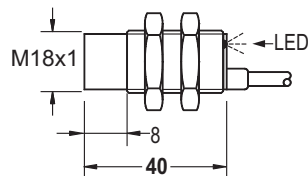
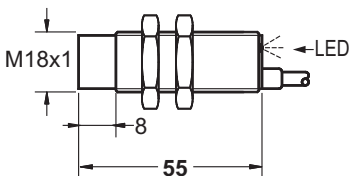


尺寸图 Dimension drawing (unit: mm)

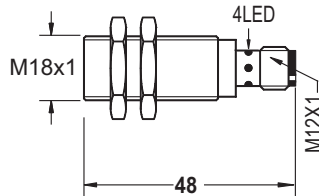
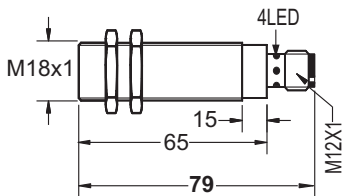
1



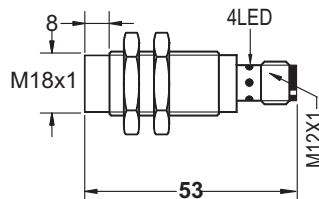
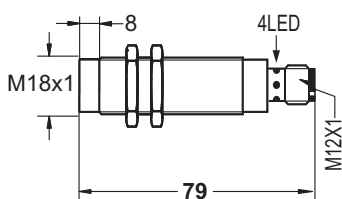
2



3



4



金属感应面 3线式-M30



特点描述/ Feature Description

- 不锈钢材料一体化设计耐腐蚀及抗机械碰撞
All-in-one stainless steel design, Mechanical collision avoidance and corrosion resistance
- 能检测各种金属物体
Detect various metal material
- 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- 外壳材料: 不锈钢
Housing material: Stainless steel
- 防护等级 IP67(IEC)
Protection degree: IP67 (IEC)

普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
FA1M3010NA2-B □	M30	10mm	●	NPN	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	1
FA1M3010NB2-B □	M30	10mm	●	NPN	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	1
FA1M3010PA2-B □	M30	10mm	●	PNP	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	1
FA1M3010PB2-B □	M30	10mm	●	PNP	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	1
FA2M3015NA2-B □	M30	15mm	○	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
FA2M3015NB2-B □	M30	15mm	○	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
FA2M3015PA2-B □	M30	15mm	○	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
FA2M3015PB2-B □	M30	15mm	○	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	2
FA1M3010NAE-B □	M30	10mm	●	NPN	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	3
FA1M3010NBE-B □	M30	10mm	●	NPN	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	3
FA1M3010PAE-B □	M30	10mm	●	PNP	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	3
FA1M3010PBE-B □	M30	10mm	●	PNP	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	3
FA2M3015NAE-B □	M30	15mm	○	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	4
FA2M3015NBE-B □	M30	15mm	○	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	4
FA2M3015PAE-B □	M30	15mm	○	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	4
FA2M3015PBE-B □	M30	15mm	○	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	4

两倍距离选型/Extended Sensing:

FA1M3016NA2-B □	M30	16mm	●	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	1
FA1M3016NB2-B □	M30	16mm	●	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	1
FA1M3016PA2-B □	M30	16mm	●	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	1
FA1M3016PB2-B □	M30	16mm	●	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	1
FA2M3025NA2-B □	M30	25mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
FA2M3025NB2-B □	M30	25mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
FA2M3025PA2-B □	M30	25mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
FA2M3025PB2-B □	M30	25mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
FA1M3016NAE-B □	M30	16mm	●	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	3
FA1M3016NBE-B □	M30	16mm	●	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	3
FA1M3016PAE-B □	M30	16mm	●	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	3
FA1M3016PBE-B □	M30	16mm	●	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	3
FA2M3025NAE-B □	M30	25mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
FA2M3025NBE-B □	M30	25mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
FA2M3025PAE-B □	M30	25mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
FA2M3025PBE-B □	M30	25mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4

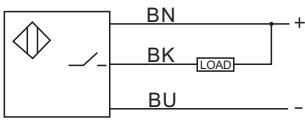
三倍距离选型/Long Sensing:

FA1M3022NA2-B □	M30	22mm	●	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	1
FA1M3022NB2-B □	M30	22mm	●	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	1
FA1M3022PA2-B □	M30	22mm	●	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	1
FA1M3022PB2-B □	M30	22mm	●	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	1
FA2M3040NA2-B □	M30	40mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
FA2M3040NB2-B □	M30	40mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
FA2M3040PA2-B □	M30	40mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
FA2M3040PB2-B □	M30	40mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
FA1M3022NAE-B □	M30	22mm	●	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	3
EA1M3022NBE-B □	M30	22mm	●	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	3
EA1M3022PAE-B □	M30	22mm	●	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	3
EA1M3022PBE-B □	M30	22mm	●	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	3
EA2M3040NAE-B □	M30	40mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
EA2M3040NBE-B □	M30	40mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
EA2M3040PAE-B □	M30	40mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
EA2M3040PBE-B □	M30	40mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4

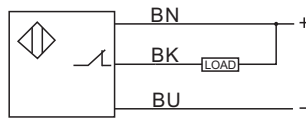
电气接线图 Connection diagram

电缆接线 / Connection diagrams

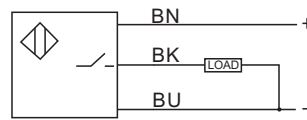
DC 3 Wire NPN-N.O.



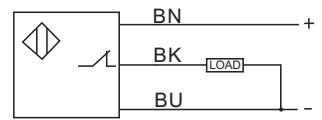
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

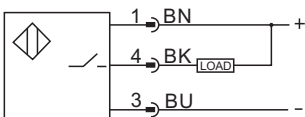


DC 3 Wire PNP-N.C.

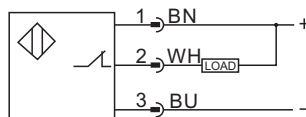


插接件接线 / Connection diagrams

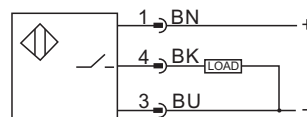
DC 3 Wire NPN-N.O.



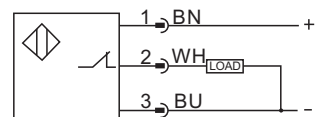
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

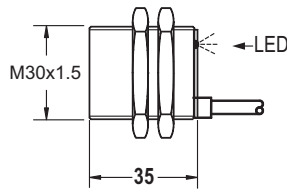
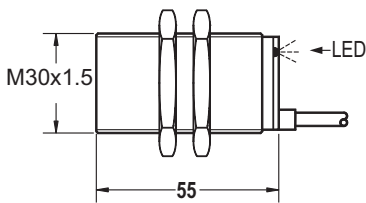


DC 3 Wire PNP-N.C.

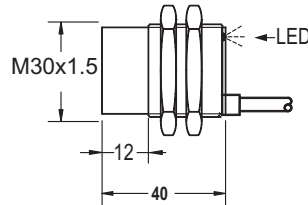
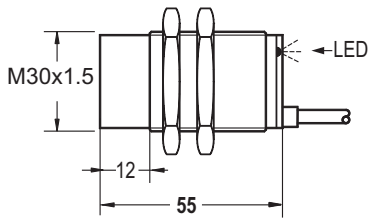


尺寸图 Dimension drawing (unit: mm)

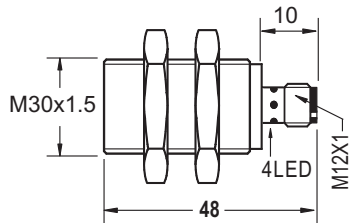
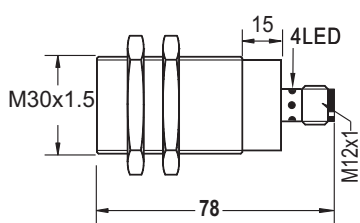
1



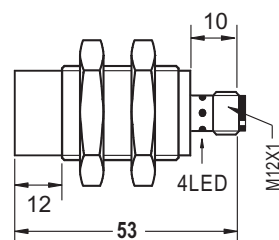
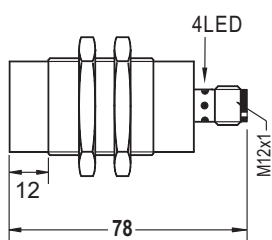
2



3



4



金属感应面 2线式-M12,M18,M30



特点描述/ Feature Description

- ◆ 不锈钢材料一体化设计耐腐蚀及抗机械碰撞
All-in-one stainless steel design, Mechanical collision avoidance and corrosion resistance
- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: 不锈钢
Housing material : Stainless steel
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

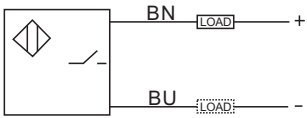
普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
FB1M1202CA2-B □	M12	2mm	●	-	N.O.	10-60V	100mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
FB1M1202CB2-B □	M12	2mm	●	-	N.C.	10-60V	100mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
FB2M1204CA2-B □	M12	4mm	○	-	N.O.	10-60V	100mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
FB2M1204CB2-B □	M12	4mm	○	-	N.C.	10-60V	100mA	1KHZ	-25℃~+70℃	2M PVC Cable	2
FB1M1202CAE-B □	M12	2mm	●	-	N.O.	10-60V	100mA	2KHZ	-25℃~+70℃	M12 Euro style	3
FB1M1202CBE-B □	M12	2mm	●	-	N.C.	10-60V	100mA	2KHZ	-25℃~+70℃	M12 Euro style	3
FB2M1204CAE-B □	M12	4mm	○	-	N.O.	10-60V	100mA	1KHZ	-25℃~+70℃	M12 Euro style	4
FB2M1204CBE-B □	M12	4mm	○	-	N.C.	10-60V	100mA	1KHZ	-25℃~+70℃	M12 Euro style	4
FB1M1805CA2-B □	M18	5mm	●	-	N.O.	10-60V	100mA	1KHZ	-25℃~+70℃	2M PVC Cable	5
FB1M1805CB2-B □	M18	5mm	●	-	N.C.	10-60V	100mA	1KHZ	-25℃~+70℃	2M PVC Cable	5
FB2M1808CA2-B □	M18	8mm	○	-	N.O.	10-60V	100mA	500HZ	-25℃~+70℃	2M PVC Cable	6
FB2M1808CB2-B □	M18	8mm	○	-	N.C.	10-60V	100mA	500HZ	-25℃~+70℃	2M PVC Cable	6
FB1M1805CAE-B □	M18	5mm	●	-	N.O.	10-60V	100mA	1KHZ	-25℃~+70℃	M12 Euro style	7
FB1M1805CBE-B □	M18	5mm	●	-	N.C.	10-60V	100mA	1KHZ	-25℃~+70℃	M12 Euro style	7
FB2M1808CAE-B □	M18	8mm	○	-	N.O.	10-60V	100mA	500HZ	-25℃~+70℃	M12 Euro style	8
FB2M1808CBE-B □	M18	8mm	○	-	N.C.	10-60V	100mA	500HZ	-25℃~+70℃	M12 Euro style	8
FB1M3010CA2-B □	M30	10mm	●	-	N.O.	10-60V	100mA	1KHZ	-25℃~+70℃	2M PVC Cable	9
FB1M3010CB2-B □	M30	10mm	●	-	N.C.	10-60V	100mA	1KHZ	-25℃~+70℃	2M PVC Cable	9
FB2M3015CA2-B □	M30	15mm	○	-	N.O.	10-60V	100mA	500HZ	-25℃~+70℃	2M PVC Cable	10
FB2M3015CB2-B □	M30	15mm	○	-	N.C.	10-60V	100mA	500HZ	-25℃~+70℃	2M PVC Cable	10
FB1M3010CAE-B □	M30	10mm	●	-	N.O.	10-60V	100mA	1KHZ	-25℃~+70℃	M12 Euro style	11
FB1M3010CBE-B □	M30	10mm	●	-	N.C.	10-60V	100mA	1KHZ	-25℃~+70℃	M12 Euro style	11
FB2M3015CAE-B □	M30	15mm	○	-	N.O.	10-60V	100mA	500HZ	-25℃~+70℃	M12 Euro style	12
FB2M3015CBE-B □	M30	15mm	○	-	N.C.	10-60V	100mA	500HZ	-25℃~+70℃	M12 Euro style	12

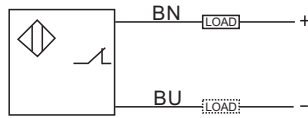
电气接线图 Connection diagram

电缆接线 / Connection diagrams

DC 2 Wire N.O.

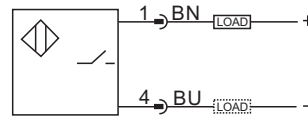


DC 2 Wire N.C.

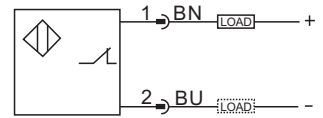


插接件接线 / Connection diagrams

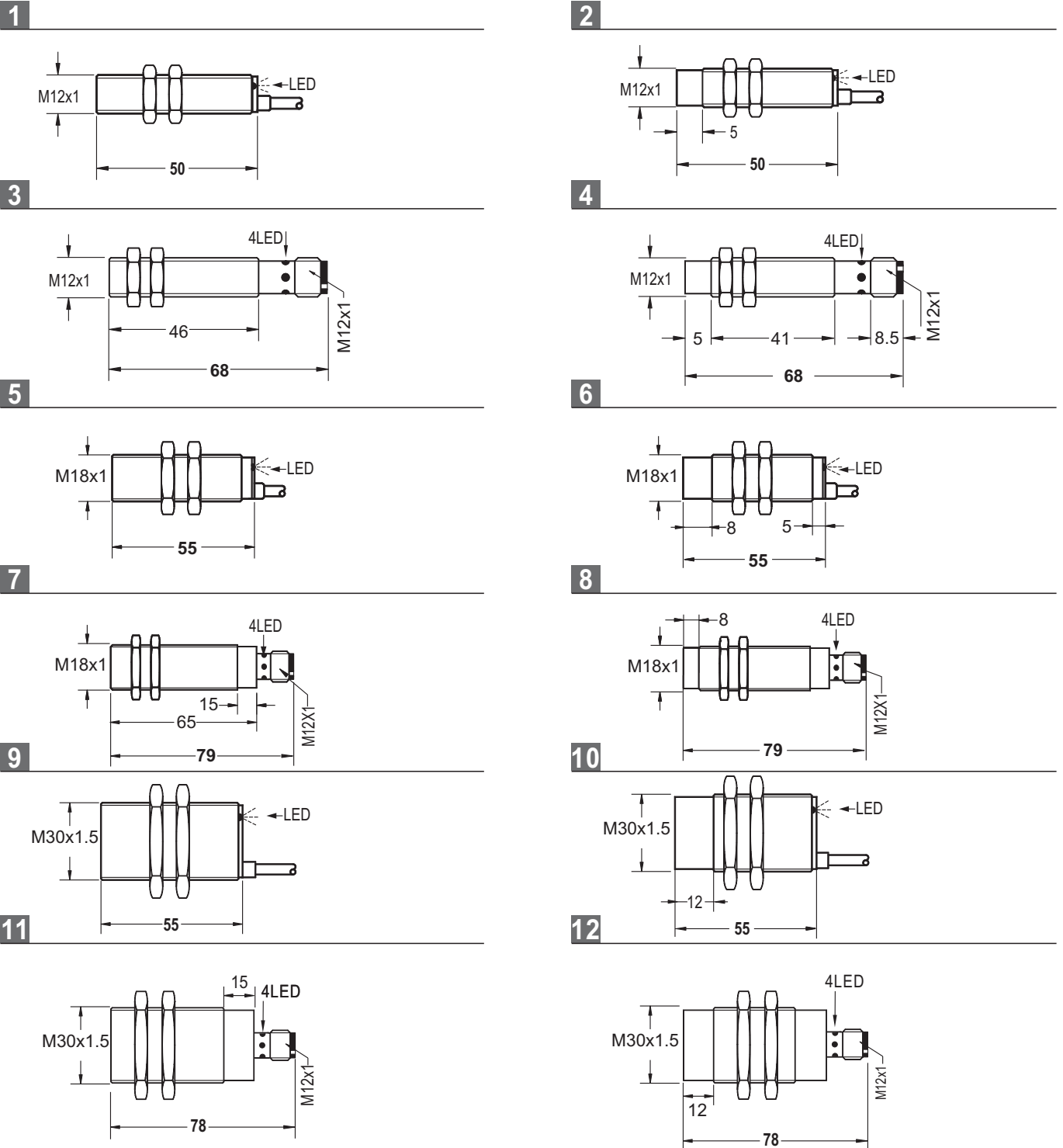
DC 2 Wire N.O.



DC 2 Wire N.C.



尺寸图 Dimension drawing(unit: mm)



金属感应面 20~250VAC-M12,M18,M30



特点描述/ Feature Description

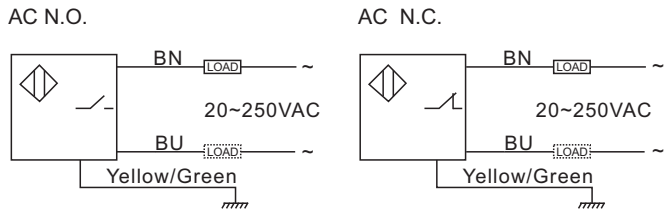
- ◆ 电源电压: 20~250VAC
Power supply: 20~250VAC
- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 外壳材料: 不锈钢
Housing material: Stainless steel
- ◆ 防护等级 IP67(IEC)
Protection degree: IP67 (IEC)

普通距离选型/Normal Sensing:

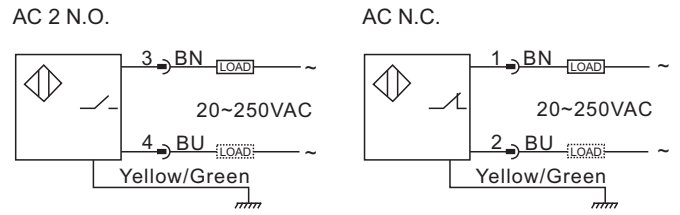
型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
FE1M1202AA2-S □	M12	2mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	1
FE1M1202AB2-S □	M12	2mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	1
FE2M1204AA2-S □	M12	4mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	2
FE2M1204AB2-S □	M12	4mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	2
FE1M1202AAE-S □	M12	2mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	3
FE1M1202ABE-S □	M12	2mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	3
FE2M1204AAE-S □	M12	4mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	4
FE2M1204ABE-S □	M12	4mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	4
FE1M1805AA2-S □	M18	5mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	5
FE1M1805AB2-S □	M18	5mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	5
FE2M1808AA2-S □	M18	8mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	6
FE2M1808AB2-S □	M18	8mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	6
FE1M1805AAE-S □	M18	5mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	7
FE1M1805ABE-S □	M18	5mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	7
FE2M1808AAE-S □	M18	8mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	8
FE2M1808ABE-S □	M18	8mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	8
FE1M3010AA2-S □	M30	10mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	5
FE1M3010AB2-S □	M30	10mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	5
FE2M3015AA2-S □	M30	15mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	6
FE2M3015AB2-S □	M30	15mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	6
FE1M3010AAE-S □	M30	10mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	7
FE1M3010ABE-S □	M30	10mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	7
FE2M3015AAE-S □	M30	15mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	8
FE2M3015ABE-S □	M30	15mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	8

电气接线图 Connection diagram

电缆接线 / Connection diagrams

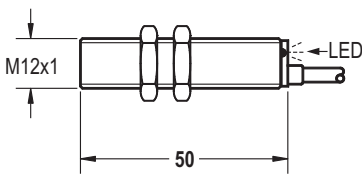


插插件接线 / Connection diagrams

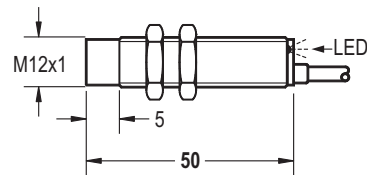


尺寸图 Dimension drawing(unit: mm)

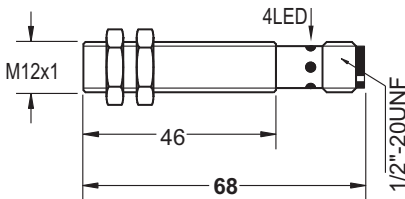
1



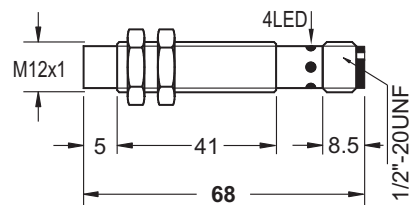
2



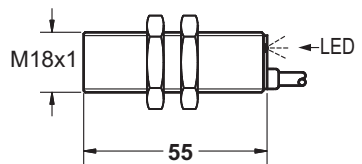
3



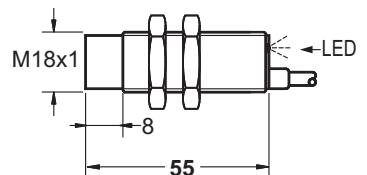
4



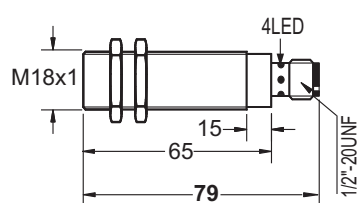
5



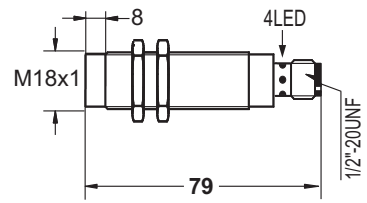
6



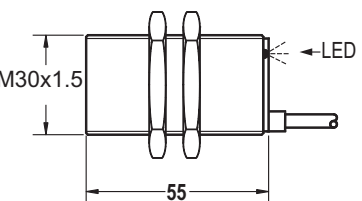
7



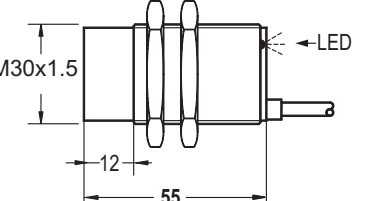
8



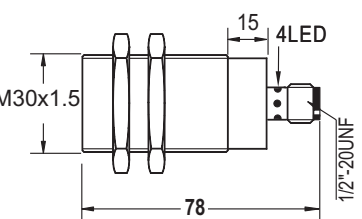
9



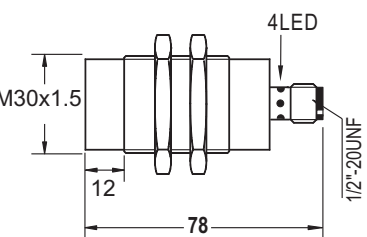
10



11



12



金属感应面 20~250VAC/DC-M12,M18,M30



特点描述/ Feature Description

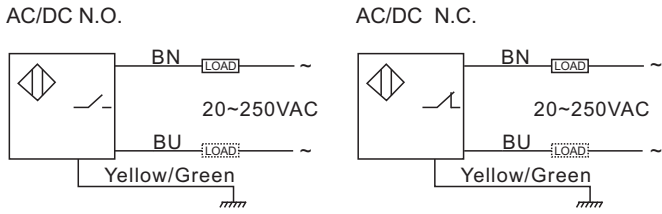
- ◆ 电源电压: 20~250VAC/DC
Power supply: 20~250VAC/DC
- ◆ 能检测各种金属物体
Detect various metal material
- ◆ 外壳材料: 不锈钢
Housing material: Stainless steel
- ◆ 防护等级 IP67(IEC)
Protection degree: IP67 (IEC)

普通距离选型/Normal Sensing:

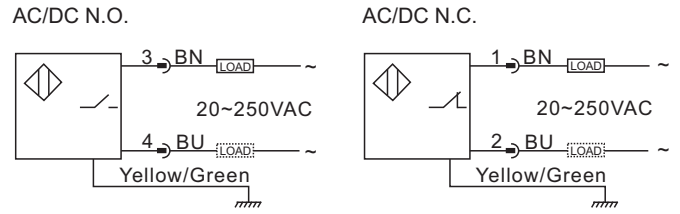
型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
FF1M1202UA2-S □	M12	2mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	1
FF1M1202UC2-S □	M12	2mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	1
FF2M1204UA2-S □	M12	4mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	2
FF2M1204UC2-S □	M12	4mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	2
FF1M1202UAE-S □	M12	2mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	3
FF1M1202UCE-S □	M12	2mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	3
FF2M1204UAE-S □	M12	4mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	4
FF2M1204UCE-S □	M12	4mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	4
FF1M1805UA2-S □	M18	5mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	5
FF1M1805UC2-S □	M18	5mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	5
FF2M1808UA2-S □	M18	8mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	6
FF2M1808UC2-S □	M18	8mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	6
FF1M1805UAE-S □	M18	5mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	7
FF1M1805UCE-S □	M18	5mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	7
FF2M1808UAE-S □	M18	8mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	8
FF2M1808UCE-S □	M18	8mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	8
FF1M3010UA2-S □	M30	10mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	9
FF1M3010UC2-S □	M30	10mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	9
FF2M3015UA2-S □	M30	15mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	10
FF2M3015UC2-S □	M30	15mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	10
FF1M3010UAE-S □	M30	10mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	11
FF1M3010UCE-S □	M30	10mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	11
FF2M3015UAE-S □	M30	15mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	12
FF2M3015UCE-S □	M30	15mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	12

电气接线图 Connection diagram

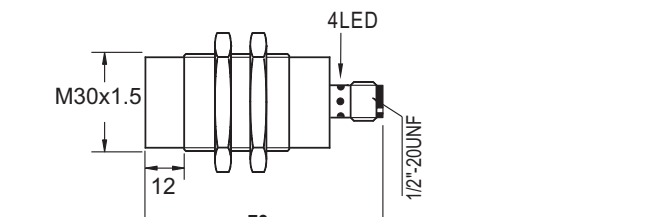
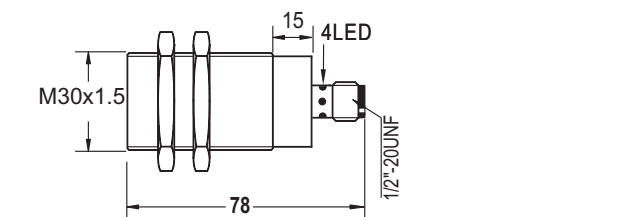
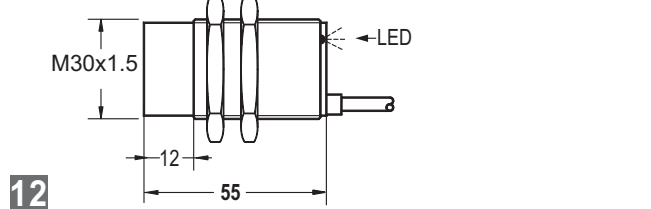
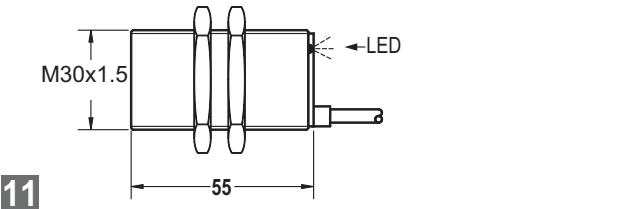
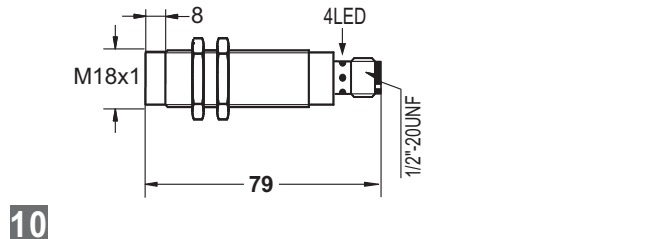
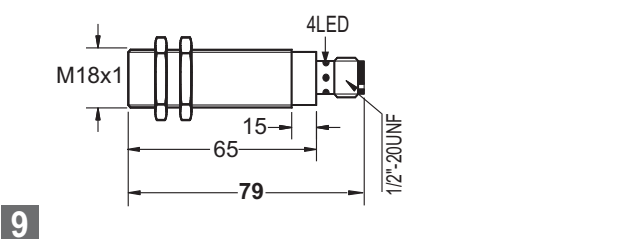
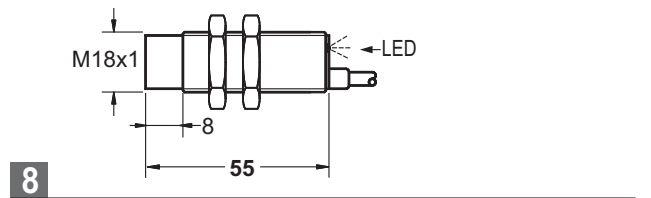
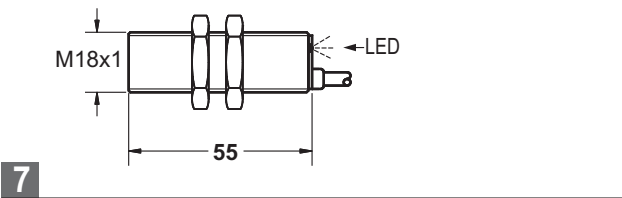
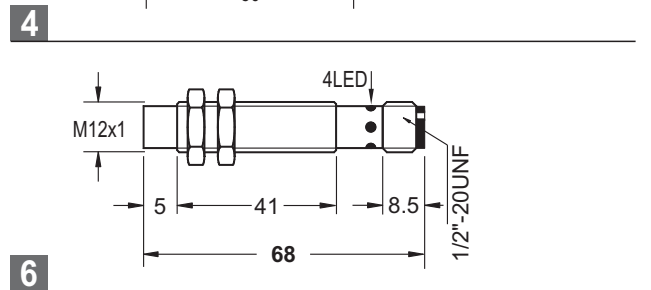
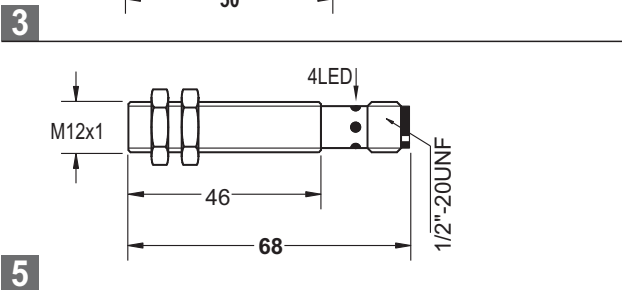
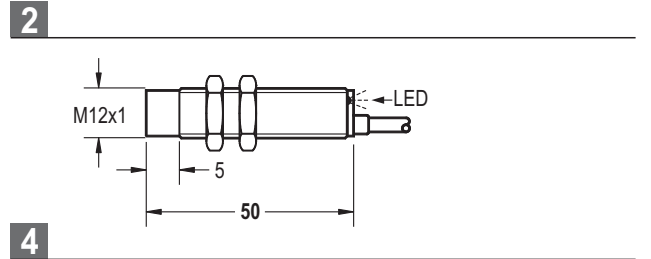
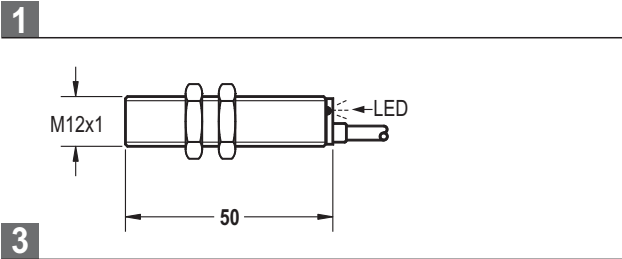
电缆接线 / Connection diagrams



插插件接线 / Connection diagrams



尺寸图 Dimension drawing(unit: mm)



金属圆柱型 3线式-M8,M12



特点描述/ Feature Description

- ◆ 能有效地避免磁场干扰
Effectively avoids magnetic interference
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: 黄铜+PTFE涂层
Housing material : Brass+PTFE Coating
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

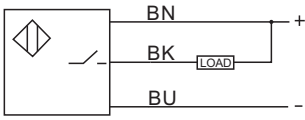
普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
WA1M0801NA2-B□	M8	1mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
WA1M0801NB2-B□	M8	1mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
WA1M0801PA2-B□	M8	1mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
WA1M0801PB2-B□	M8	1mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	1
WA2M0802NA2-B□	M8	2mm	○	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
WA2M0802NB2-B□	M8	2mm	○	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
WA2M0802PA2-B□	M8	2mm	○	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
WA2M0802PB2-B□	M8	2mm	○	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	2
WA1M0801NAP-B□	M8	1mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
WA1M0801NBP-B□	M8	1mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
WA1M0801PAP-B□	M8	1mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
WA1M0801PBP-B□	M8	1mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	3
WA2M0802NAP-B□	M8	2mm	○	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	4
WA2M0802NBP-B□	M8	2mm	○	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	4
WA2M0802PAP-B□	M8	2mm	○	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	4
WA2M0802PBP-B□	M8	2mm	○	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M8 Pico style	4
WA1M1202NA2-B□	M12	2mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	5
WA1M1202NB2-B□	M12	2mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	5
WA1M1202PA2-B□	M12	2mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	6
WA1M1202PB2-B□	M12	2mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	2M PVC Cable	6
WA2M1204NA2-B□	M12	4mm	○	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	7
WA2M1204NB2-B□	M12	4mm	○	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	7
WA2M1204PA2-B□	M12	4mm	○	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	8
WA2M1204PB2-B□	M12	4mm	○	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	8
WA1M1202NAE-B□	M12	2mm	●	NPN	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M12 Euro style	9
WA1M1202NBE-B□	M12	2mm	●	NPN	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M12 Euro style	9
WA1M1202PAE-B□	M12	2mm	●	PNP	N.O.	10-30V	200mA	2KHZ	-25℃~+70℃	M12 Euro style	10
WA1M1202PBE-B□	M12	2mm	●	PNP	N.C.	10-30V	200mA	2KHZ	-25℃~+70℃	M12 Euro style	10
WA2M1204NAE-B□	M12	4mm	○	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	11
WA2M1204NBE-B□	M12	4mm	○	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	11
WA2M1204PAE-B□	M12	4mm	○	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	12
WA2M1204PBE-B□	M12	4mm	○	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	12

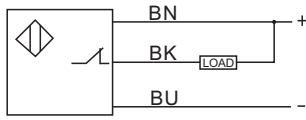
电气接线图 Connection diagram

电缆接线 / Connection diagrams

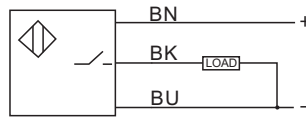
DC 3 Wire NPN-N.O.



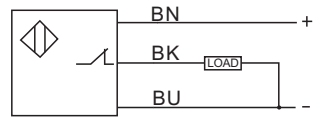
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

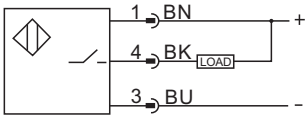


DC 3 Wire PNP-N.C.

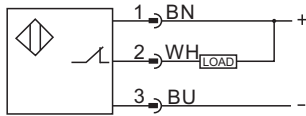


插接件接线 / Connection diagrams

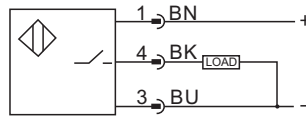
DC 3 Wire NPN-N.O.



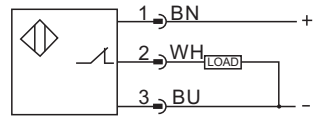
DC 3 Wire NPN-N.C.



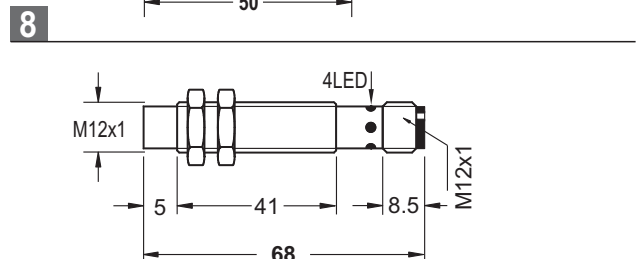
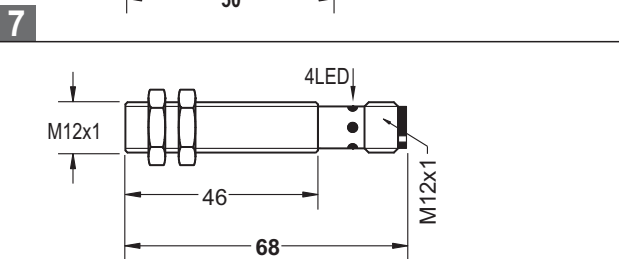
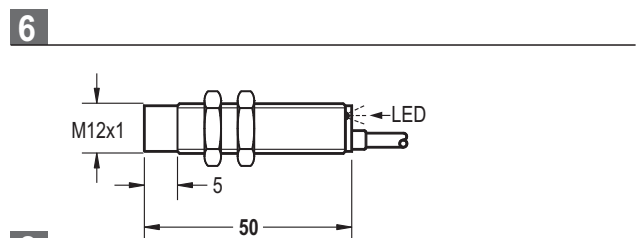
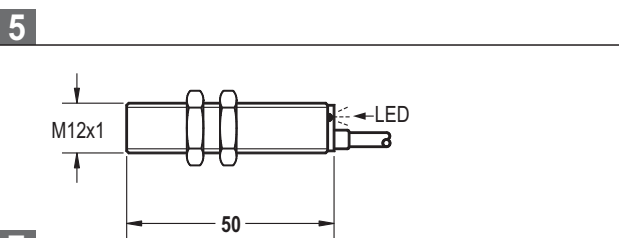
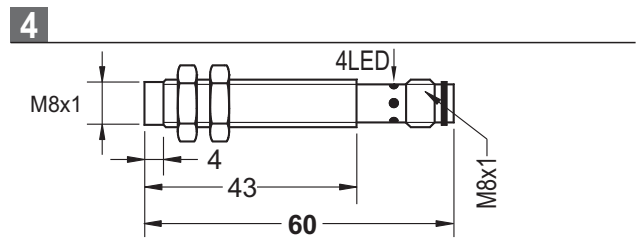
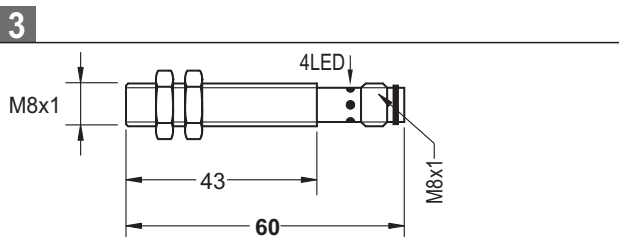
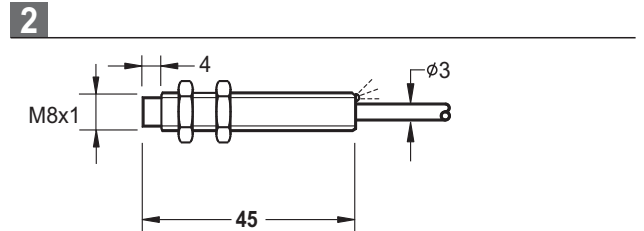
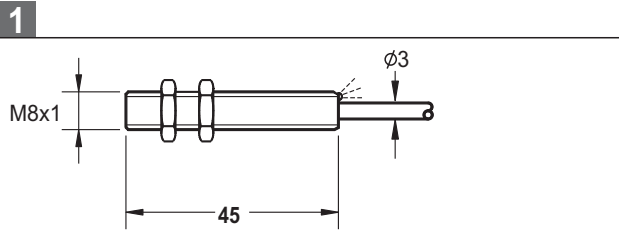
DC 3 Wire PNP-N.O.



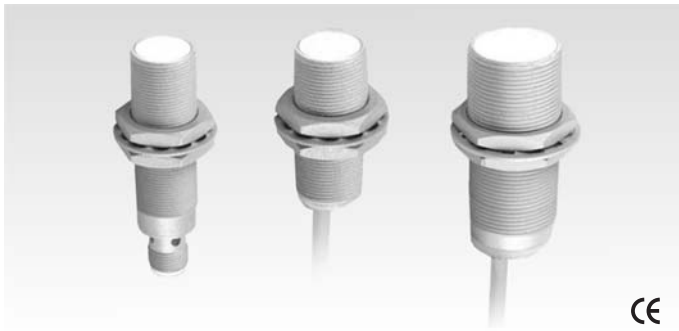
DC 3 Wire PNP-N.C.



尺寸图 Dimension drawing (unit: mm)



金属圆柱型 3线式-M18,M30



特点描述/ Feature Description

- 能有效地避免磁场干扰
Effectively avoids magnetic interference
- 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- 外壳材料: 黄铜+PTFE涂层
Housing material : Brass+PTFE Coating
- 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

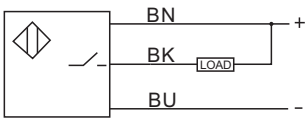
普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
WA1M1805NA2-B□	M18	5mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
WA1M1805NB2-B□	M18	5mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
WA1M1805PA2-B□	M18	5mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
WA1M1805PB2-B□	M18	5mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	2M PVC Cable	1
WA2M1808NA2-B□	M18	8mm	○	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
WA2M1808NB2-B□	M18	8mm	○	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
WA2M1808PA2-B□	M18	8mm	○	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
WA2M1808PB2-B□	M18	8mm	○	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	2M PVC Cable	2
WA1M1805NAE-B□	M18	5mm	●	NPN	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
WA1M1805NBE-B□	M18	5mm	●	NPN	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
WA1M1805PAE-B□	M18	5mm	●	PNP	N.O.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
WA1M1805PBE-B□	M18	5mm	●	PNP	N.C.	10-30V	200mA	1KHZ	-25℃~+70℃	M12 Euro style	3
WA2M1808NAE-B□	M18	8mm	○	NPN	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4
WA2M1808NBE-B□	M18	8mm	○	NPN	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4
WA2M1808PAE-B□	M18	8mm	○	PNP	N.O.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4
WA2M1808PBE-B□	M18	8mm	○	PNP	N.C.	10-30V	200mA	500HZ	-25℃~+70℃	M12 Euro style	4
WA1M3010NA2-B□	M30	10mm	●	NPN	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	5
WA1M3010NB2-B□	M30	10mm	●	NPN	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	5
WA1M3010PA2-B□	M30	10mm	●	PNP	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	5
WA1M3010PB2-B□	M30	10mm	●	PNP	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	2M PVC Cable	5
WA2M3015NA2-B□	M30	15mm	○	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	6
WA2M3015NB2-B□	M30	15mm	○	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	6
WA2M3015PA2-B□	M30	15mm	○	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	6
WA2M3015PB2-B□	M30	15mm	○	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	2M PVC Cable	6
WA1M3010NAE-B□	M30	10mm	●	NPN	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	7
WA1M3010NBE-B□	M30	10mm	●	NPN	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	7
WA1M3010PAE-B□	M30	10mm	●	PNP	N.O.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	7
WA1M3010PBE-B□	M30	10mm	●	PNP	N.C.	10-30V	200mA	300HZ	-25℃~+70℃	M12 Euro style	7
WA2M3015NAE-B□	M30	15mm	○	NPN	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	8
WA2M3015NBE-B□	M30	15mm	○	NPN	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	8
WA2M3015PAE-B□	M30	15mm	○	PNP	N.O.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	8
WA2M3015PBE-B□	M30	15mm	○	PNP	N.C.	10-30V	200mA	150HZ	-25℃~+70℃	M12 Euro style	8

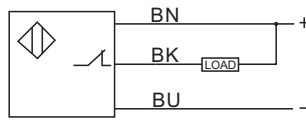
电气接线图 Connection diagram

电缆接线 / Connection diagrams

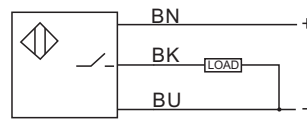
DC 3 Wire NPN-N.O.



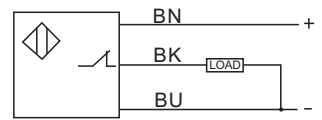
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

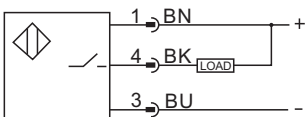


DC 3 Wire PNP-N.C.

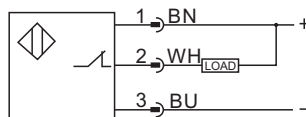


插接件接线 / Connection diagrams

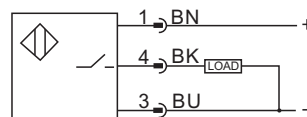
DC 3 Wire NPN-N.O.



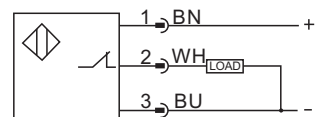
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

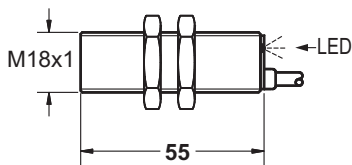


DC 3 Wire PNP-N.C.

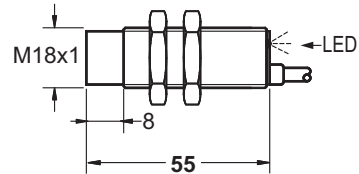


尺寸图 Dimension drawing (unit: mm)

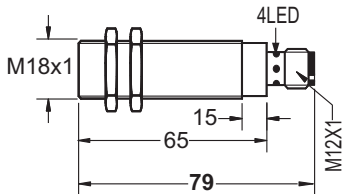
1



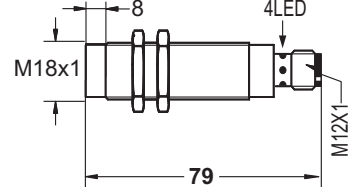
2



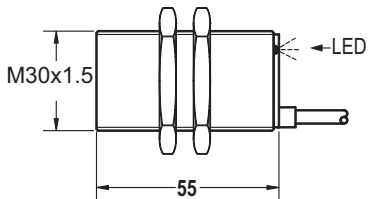
3



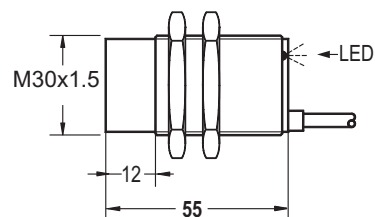
4



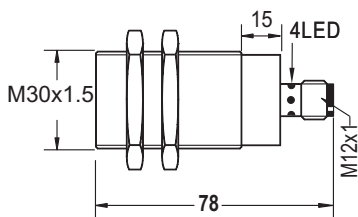
5



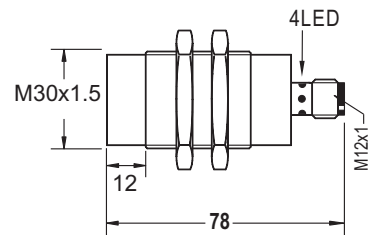
6



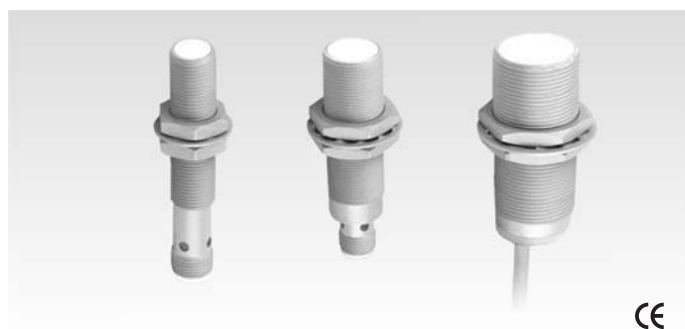
7



8



金属圆柱型 20~250VAC-M12,M18,M30



特点描述/ Feature Description

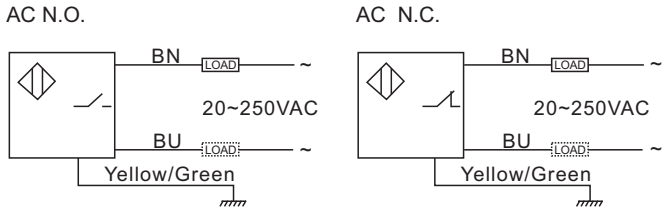
- ◆ 电源电压: 20~250VAC
Power supply:20~250VAC
- ◆ 能有效地避免磁场干扰
Effectively avoids magnetic interference
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: 黄铜+PTFE涂层
Housing material : Brass+PTFE Coating
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

普通距离选型/Normal Sensing:

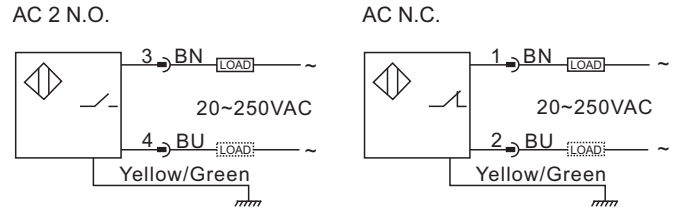
型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
WE1M1202AA2-B□	M12	2mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	1
WE1M1202AB2-B□	M12	2mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	1
WE2M1204AA2-B□	M12	4mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	2
WE2M1204AB2-B□	M12	4mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	2
WE1M1202AAE-B□	M12	2mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	3
WE1M1202ABE-B□	M12	2mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	3
WE2M1204AAE-B□	M12	4mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	4
WE2M1204ABE-B□	M12	4mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	4
WE1M1805AA2-B□	M18	5mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	5
WE1M1805AB2-B□	M18	5mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	5
WE2M1808AA2-B□	M18	8mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	6
WE2M1808AB2-B□	M18	8mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	6
WE1M1805AAE-B□	M18	5mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	7
WE1M1805ABE-B□	M18	5mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	7
WE2M1808AAE-B□	M18	8mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	8
WE2M1808ABE-B□	M18	8mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	8
WE1M3010AA2-B□	M30	10mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	5
WE1M3010AB2-B□	M30	10mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	5
WE2M3015AA2-B□	M30	15mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	6
WE2M3015AB2-B□	M30	15mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	2M PVC Cable	6
WE1M3010AAE-B□	M30	10mm	●	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	7
WE1M3010ABE-B□	M30	10mm	●	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	7
WE2M3015AAE-B□	M30	15mm	○	AC	N.O.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	8
WE2M3015ABE-B□	M30	15mm	○	AC	N.C.	20-250VAC	<400mA	25HZ	-25℃~+70℃	M12 Micro style	8

电气接线图 Connection diagram

电缆接线 / Connection diagrams

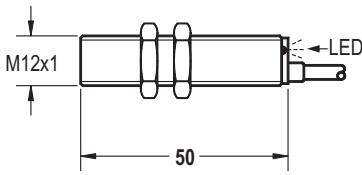


插接件接线 / Connection diagrams

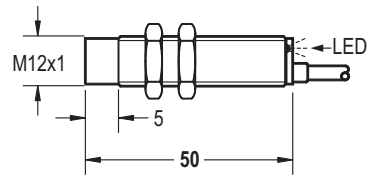


尺寸图 Dimension drawing (unit: mm)

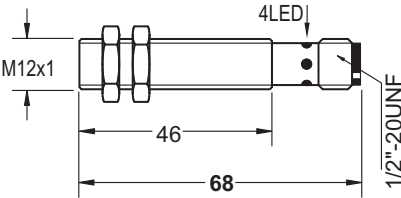
1



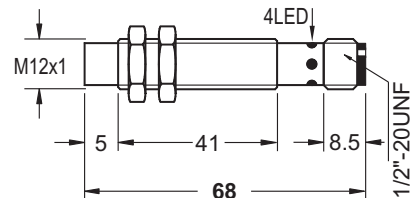
2



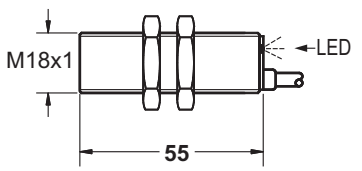
3



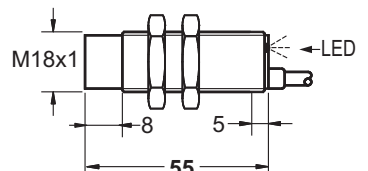
4



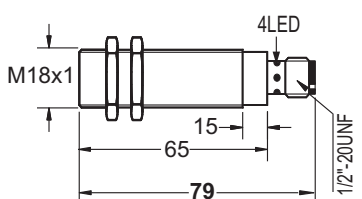
5



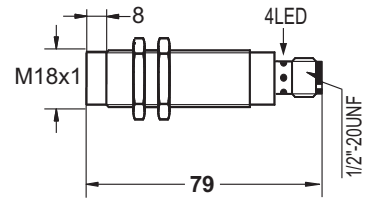
6



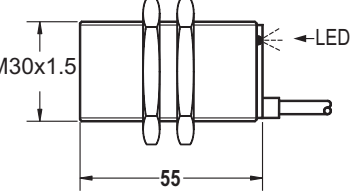
7



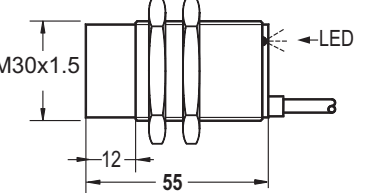
8



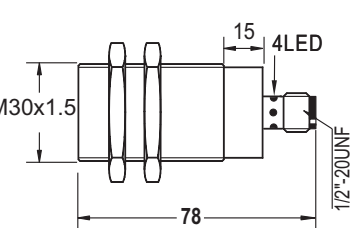
9



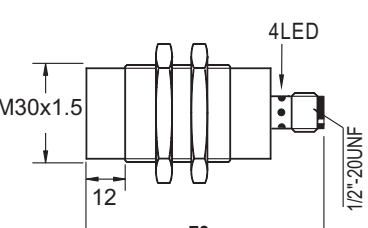
10



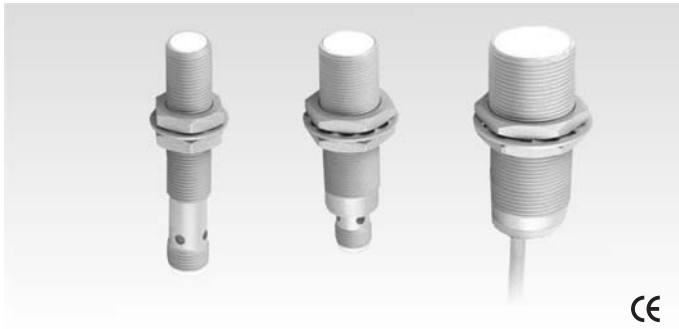
11



12



金属圆柱型 20~250VAC/DC-M12,M18,M30



特点描述/ Feature Description

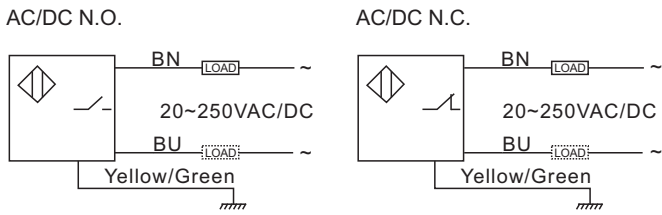
- ◆ 电源电压: 20~250VAC/DC
Power supply: 20~250VAC/DC
- ◆ 能有效地避免磁场干扰
Effectively avoids magnetic interference
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: 黄铜+PTFE涂层
Housing material: Brass+PTFE Coating
- ◆ 防护等级 IP67(IEC)
Protection degree: IP67 (IEC)

普通距离选型/Normal Sensing:

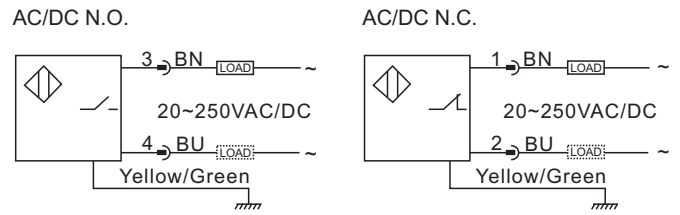
型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
WF1M1202UA2-B□	M12	2mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	1
WF1M1202UC2-B□	M12	2mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	1
WF2M1204UA2-B□	M12	4mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	2
WF2M1204UC2-B□	M12	4mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	2
WF1M1202UAE-B□	M12	2mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	3
WF1M1202UCE-B□	M12	2mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	3
WF2M1204UAE-B□	M12	4mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	4
WF2M1204UCE-B□	M12	4mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	4
WF1M1805UA2-B□	M18	5mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	5
WF1M1805UC2-B□	M18	5mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	5
WF2M1808UA2-B□	M18	8mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	6
WF2M1808UC2-B□	M18	8mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	6
WF1M1805UAE-B□	M18	5mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	7
WF1M1805UCE-B□	M18	5mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	7
WF2M1808UAE-B□	M18	8mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	8
WF2M1808UCE-B□	M18	8mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	8
WF1M3010UA2-B□	M30	10mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	9
WF1M3010UC2-B□	M30	10mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	9
WF2M3015UA2-B□	M30	15mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	10
WF2M3015UC2-B□	M30	15mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	10
WF1M3010UAE-B□	M30	10mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	11
WF1M3010UCE-B□	M30	10mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	11
WF2M3015UAE-B□	M30	15mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	12
WF2M3015UCE-B□	M30	15mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	12

电气接线图 Connection diagram

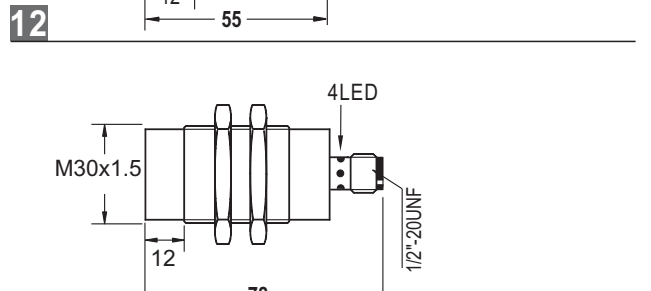
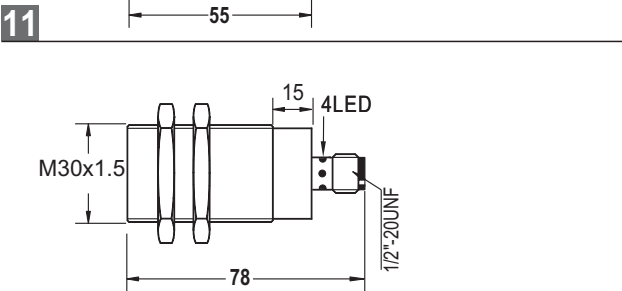
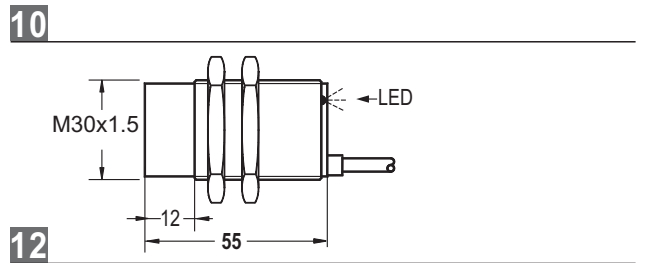
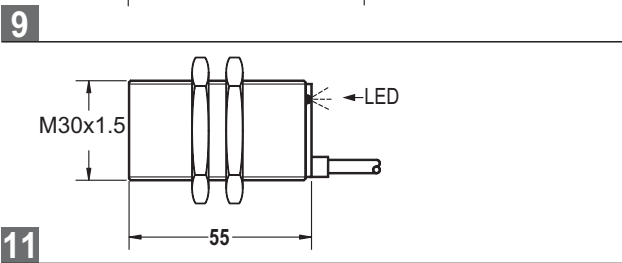
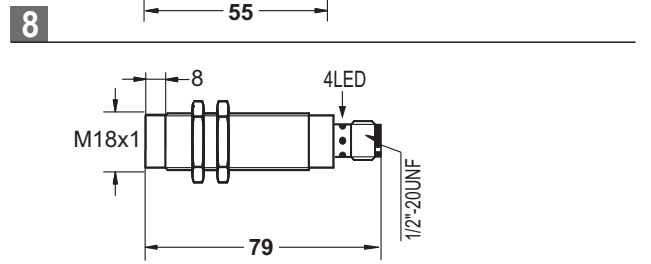
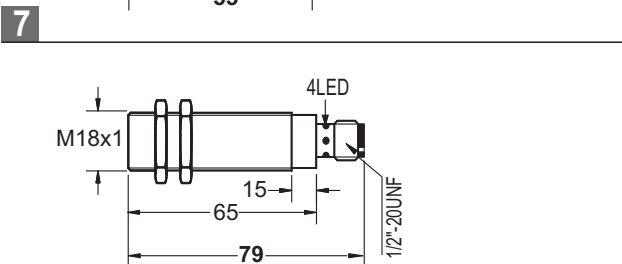
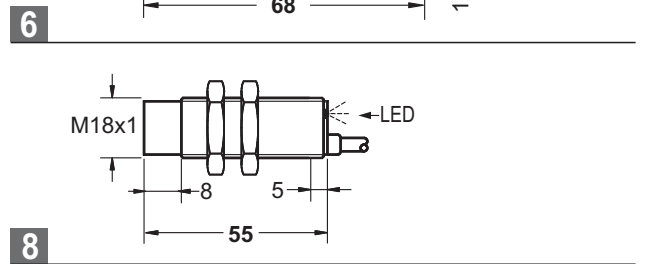
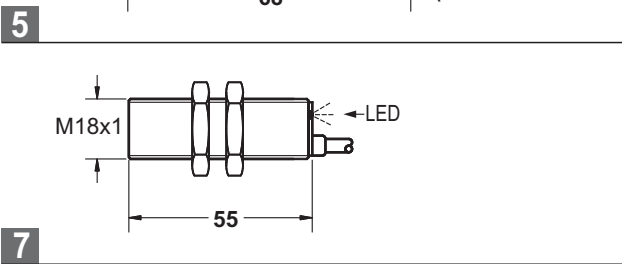
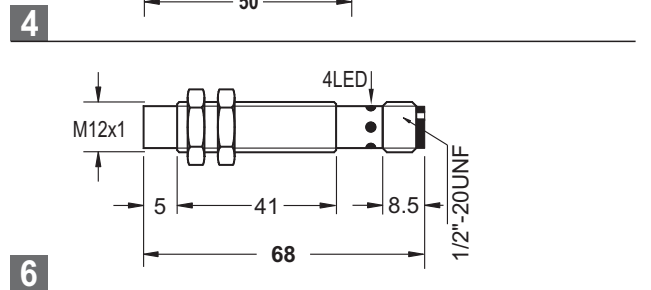
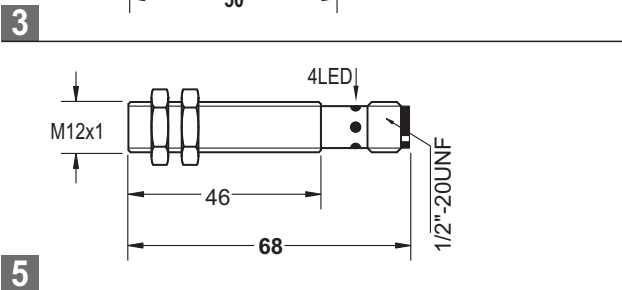
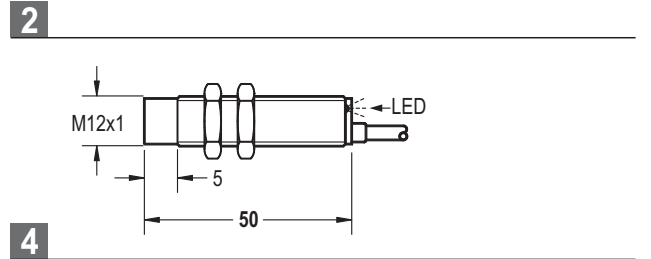
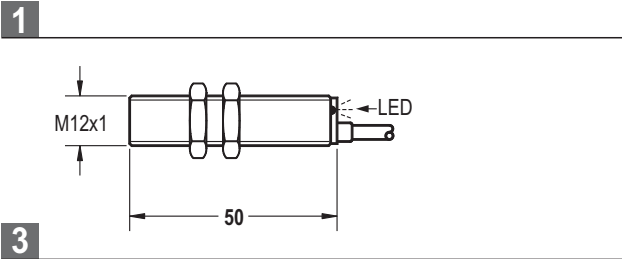
电缆接线 / Connection diagrams



插插件接线 / Connection diagrams



尺寸图 Dimension drawing(unit: mm)



耐高压圆柱型 3线式-M12



特点描述/ Feature Description

- ◆ 耐受压力达500Bar, 适用于高压系统
High pressure up to 500Bar, apply in occasion of high pressure system
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: 不锈钢
Housing material: Stainless steel
- ◆ 防护等级 IP67(IEC)
Protection degree: IP67 (IEC)

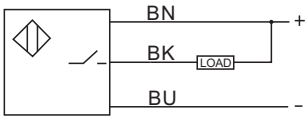
普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
HA1M121.5NA2-S □	M12	1.5mm	●	NPN	N.O.	10-30V	200mA	600HZ	-25℃~+70℃	2M PVC Cable	1
HA1M121.5NB2-S □	M12	1.5mm	●	NPN	N.C.	10-30V	200mA	600HZ	-25℃~+70℃	2M PVC Cable	1
HA1M121.5PA2-S □	M12	1.5mm	●	PNP	N.O.	10-30V	200mA	600HZ	-25℃~+70℃	2M PVC Cable	1
HA1M121.5PB2-S □	M12	1.5mm	●	PNP	N.C.	10-30V	200mA	600HZ	-25℃~+70℃	2M PVC Cable	1
HA1M121.5NAE-S □	M12	1.5mm	●	NPN	N.O.	10-30V	200mA	600HZ	-25℃~+70℃	M12 Euro style	2
HA1M121.5NBE-S □	M12	1.5mm	●	NPN	N.C.	10-30V	200mA	600HZ	-25℃~+70℃	M12 Euro style	2
HA1M121.5PAE-S □	M12	1.5mm	●	PNP	N.O.	10-30V	200mA	600HZ	-25℃~+70℃	M12 Euro style	2
HA1M121.5PBE-S □	M12	1.5mm	●	PNP	N.C.	10-30V	200mA	600HZ	-25℃~+70℃	M12 Euro style	2
HA1M1202NA2-S □	M12	2mm	●	NPN	N.O.	10-30V	200mA	600HZ	-25℃~+70℃	2M PVC Cable	1
HA1M1202NB2-S □	M12	2mm	●	NPN	N.C.	10-30V	200mA	600HZ	-25℃~+70℃	2M PVC Cable	1
HA1M1202PA2-S □	M12	2mm	●	PNP	N.O.	10-30V	200mA	600HZ	-25℃~+70℃	2M PVC Cable	1
HA1M1202PB2-S □	M12	2mm	●	PNP	N.C.	10-30V	200mA	600HZ	-25℃~+70℃	2M PVC Cable	1
HA1M1202NAE-S □	M12	2mm	●	NPN	N.O.	10-30V	200mA	600HZ	-25℃~+70℃	M12 Euro style	2
HA1M1202NBE-S □	M12	2mm	●	NPN	N.C.	10-30V	200mA	600HZ	-25℃~+70℃	M12 Euro style	2
HA1M1202PAE-S □	M12	2mm	●	PNP	N.O.	10-30V	200mA	600HZ	-25℃~+70℃	M12 Euro style	2
HA1M1202PBE-S □	M12	2mm	●	PNP	N.C.	10-30V	200mA	600HZ	-25℃~+70℃	M12 Euro style	2

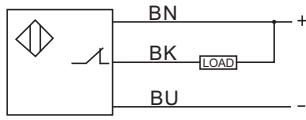
电气接线图 Connection diagram

电缆接线 / Connection diagrams

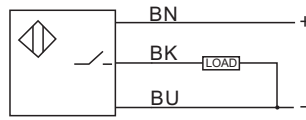
DC 3 Wire NPN-N.O.



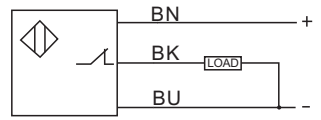
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

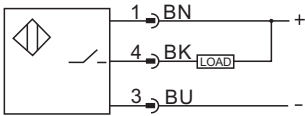


DC 3 Wire PNP-N.C.

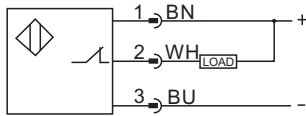


插接件接线 / Connection diagrams

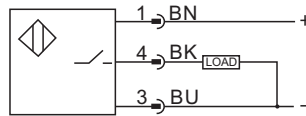
DC 3 Wire NPN-N.O.



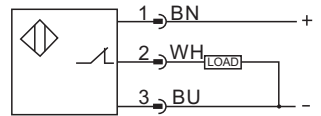
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

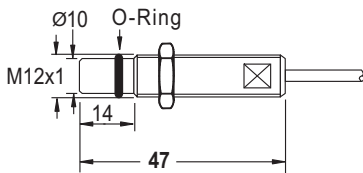


DC 3 Wire PNP-N.C.

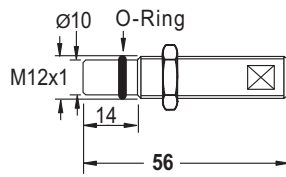
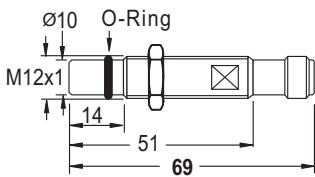
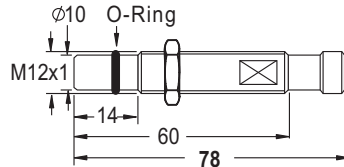
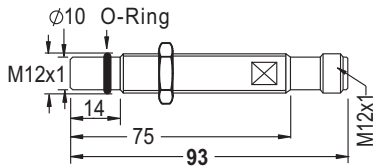


尺寸图 Dimension drawing (unit: mm)

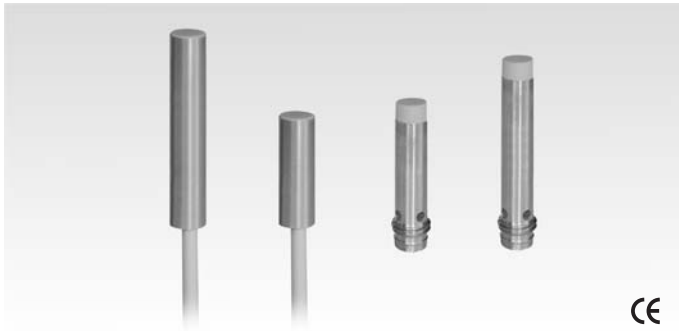
1



2



DC 电容式 -D6.5



特点描述/ Feature Description

- ◆ 可以检测金属,塑料,液体等不同物质
Wide range of detecting object: Metal, plastic, liquid etc
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: 铜镀镍
Housing material : Nickel plated brass
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

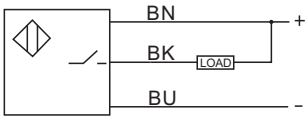
普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
CA1D6.501NA2-B□	D6.5	1mm	●	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1D6.501NB2-B□	D6.5	1mm	●	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1D6.501PA2-B□	D6.5	1mm	●	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1D6.501PB2-B□	D6.5	1mm	●	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA2D6.502NA2-B□	D6.5	2mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2D6.502NB2-B□	D6.5	2mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2D6.502PA2-B□	D6.5	2mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2D6.502PB2-B□	D6.5	2mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA1D6.501NAP-B□	D6.5	1mm	●	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M8 Pico style	3
CA1D6.501NBP-B□	D6.5	1mm	●	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M8 Pico style	3
CA1D6.501PAP-B□	D6.5	1mm	●	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M8 Pico style	3
CA1D6.501PBP-B□	D6.5	1mm	●	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M8 Pico style	3
CA2D6.502NAP-B□	D6.5	2mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M8 Pico style	4
CA2D6.502NBP-B□	D6.5	2mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M8 Pico style	4
CA2D6.502PAP-B□	D6.5	2mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M8 Pico style	4
CA2D6.502PBP-B□	D6.5	2mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M8 Pico style	4

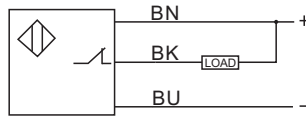
电气接线图 Connection diagram

电缆接线 / Connection diagrams

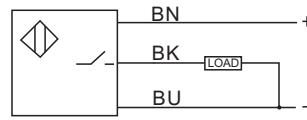
DC 3 Wire NPN-N.O.



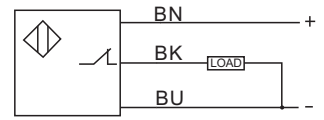
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

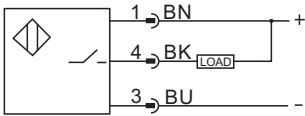


DC 3 Wire PNP-N.C.

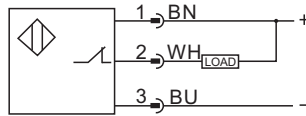


插接件接线 / Connection diagrams

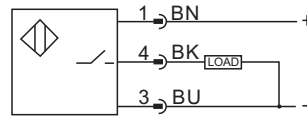
DC 3 Wire NPN-N.O.



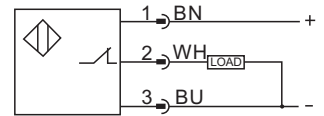
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

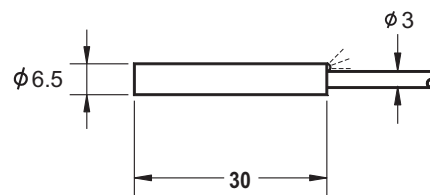
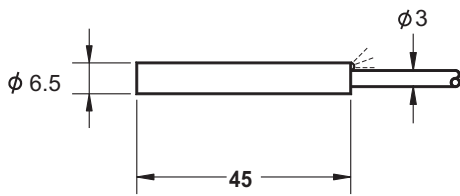


DC 3 Wire PNP-N.C.

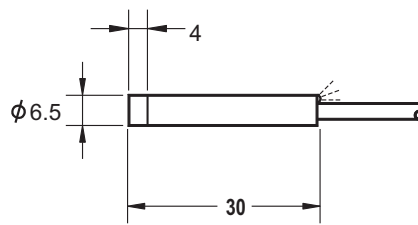
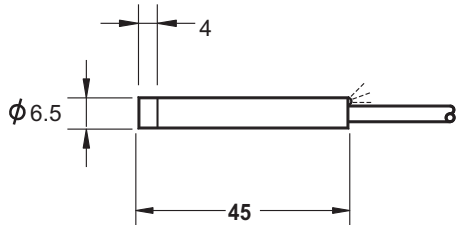


尺寸图 Dimension drawing (unit: mm)

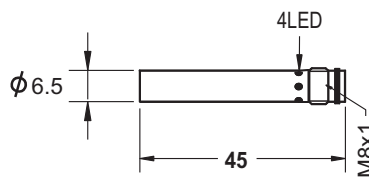
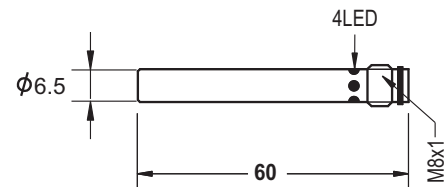
1



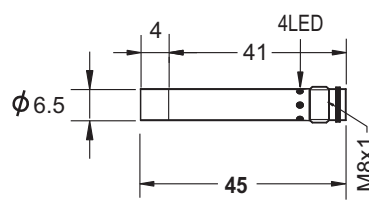
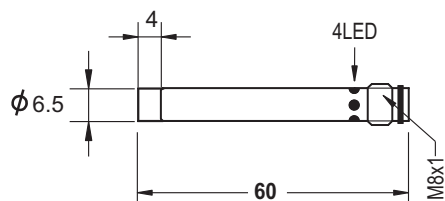
2



3



4



电容式 3线式-M8



特点描述/ Feature Description

- ◆ 可以检测金属,塑料,液体等不同物质
Wide range of detecting object: Metal, plastic, liquid etc
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: 铜镀镍
Housing material : Nickel plated brass
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

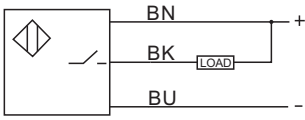
普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
CA1M0801NA2-B□	M8	1mm	●	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	5
CA1M0801NB2-B□	M8	1mm	●	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	5
CA1M0801PA2-B□	M8	1mm	●	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	5
CA1M0801PB2-B□	M8	1mm	●	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	5
CA2M0802NA2-B□	M8	2mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	6
CA2M0802NB2-B□	M8	2mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	6
CA2M0802PA2-B□	M8	2mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	6
CA2M0802PB2-B□	M8	2mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	6
CA1M0801NAP-B□	M8	1mm	●	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M8 Pico style	7
CA1M0801NBP-B□	M8	1mm	●	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M8 Pico style	7
CA1M0801PAP-B□	M8	1mm	●	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M8 Pico style	7
CA1M0801PBP-B□	M8	1mm	●	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M8 Pico style	7
CA2M0802NAP-B□	M8	2mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M8 Pico style	8
CA2M0802NBP-B□	M8	2mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M8 Pico style	8
CA2M0802PAP-B□	M8	2mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M8 Pico style	8
CA2M0802PBP-B□	M8	2mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M8 Pico style	8

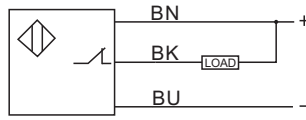
电气接线图 Connection diagram

电缆接线 / Connection diagrams

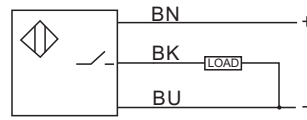
DC 3 Wire NPN-N.O.



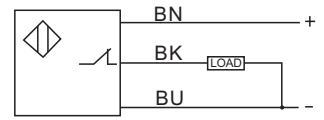
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

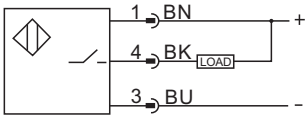


DC 3 Wire PNP-N.C.

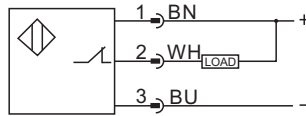


插接件接线 / Connection diagrams

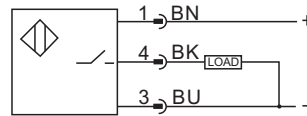
DC 3 Wire NPN-N.O.



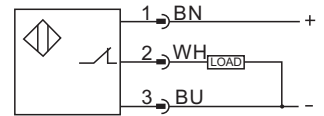
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

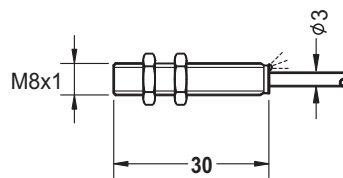
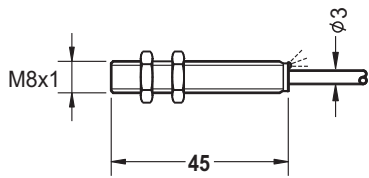


DC 3 Wire PNP-N.C.

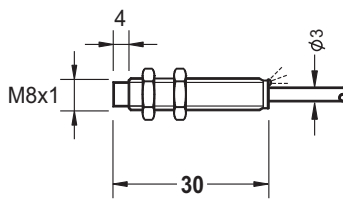
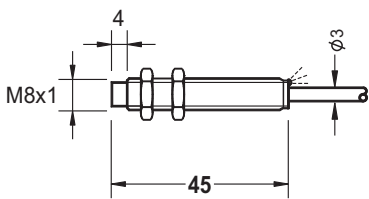


尺寸图 Dimension drawing (unit: mm)

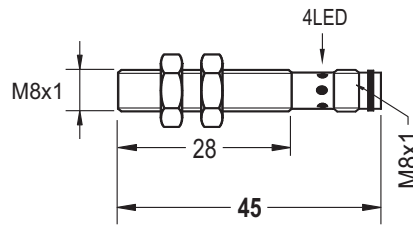
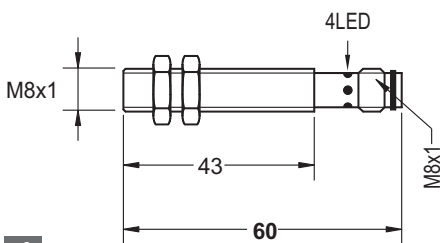
1



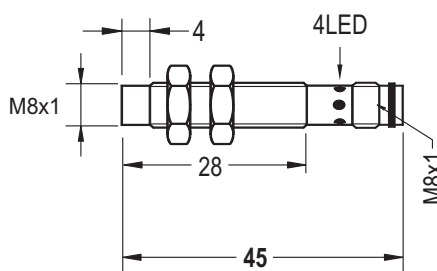
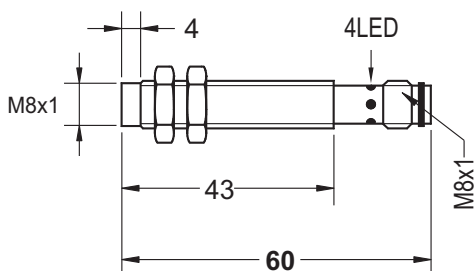
2



3



4



DC 电容式 -M12



特点描述/ Feature Description

- 可以检测金属,塑料,液体等不同物质
Wide range of detecting object: Metal, plastic, liquid etc
- 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- 外壳材料: 铜镀镍或PBT
Housing material: Nickel plated brass or PBT
- 防护等级 IP67(IEC)
Protection degree: IP67 (IEC)

普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
CA1M1203NA2-B□	M12	1~3mm	●	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M1203NB2-B□	M12	1~3mm	●	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M1203PA2-B□	M12	1~3mm	●	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M1203PB2-B□	M12	1~3mm	●	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA2M1206NA2-B□	M12	1~6mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M1206NB2-B□	M12	1~6mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M1206PA2-B□	M12	1~6mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M1206PB2-B□	M12	1~6mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA1M1203NAE-B□	M12	1~3mm	●	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M1203NBE-B□	M12	1~3mm	●	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M1203PAE-B□	M12	1~3mm	●	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M1203PBE-B□	M12	1~3mm	●	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA2M1206NAE-B□	M12	1~6mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M1206NBE-B□	M12	1~6mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M1206PAE-B□	M12	1~6mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M1206PBE-B□	M12	1~6mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4

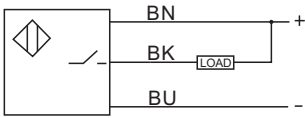
塑料管选型/Housing material :PBT

CA1M1203NA2-P□	M12	1~3mm	●	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M1203NB2-P□	M12	1~3mm	●	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M1203PA2-P□	M12	1~3mm	●	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M1203PB2-P□	M12	1~3mm	●	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA2M1206NA2-P□	M12	1~6mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M1206NB2-P□	M12	1~6mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M1206PA2-P□	M12	1~6mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M1206PB2-P□	M12	1~6mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA1M1203NAE-P□	M12	1~3mm	●	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M1203NBE-P□	M12	1~3mm	●	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M1203PAE-P□	M12	1~3mm	●	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M1203PBE-P□	M12	1~3mm	●	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA2M1206NAE-P□	M12	1~6mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M1206NBE-P□	M12	1~6mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M1206PAE-P□	M12	1~6mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M1206PBE-P□	M12	1~6mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	M12 Euro style	4

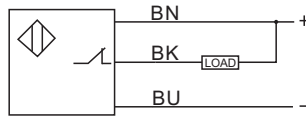
电气接线图 Connection diagram

电缆接线 / Connection diagrams

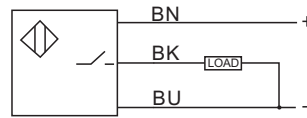
DC 3 Wire NPN-N.O.



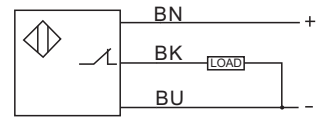
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

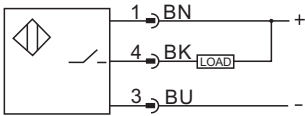


DC 3 Wire PNP-N.C.

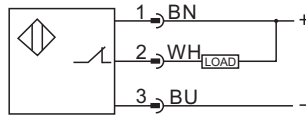


插接件接线 / Connection diagrams

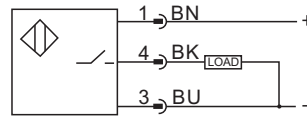
DC 3 Wire NPN-N.O.



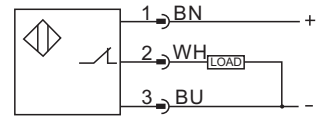
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

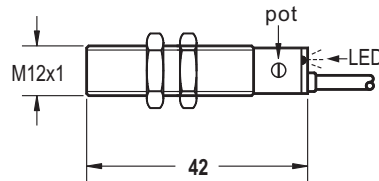
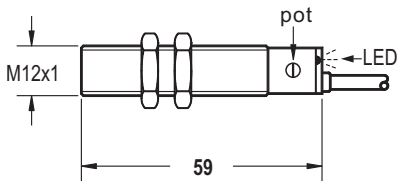


DC 3 Wire PNP-N.C.

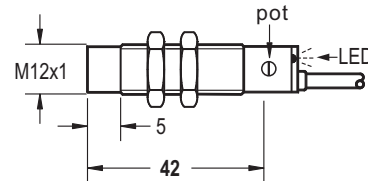
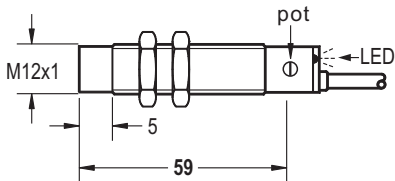


尺寸图 Dimension drawing (unit: mm)

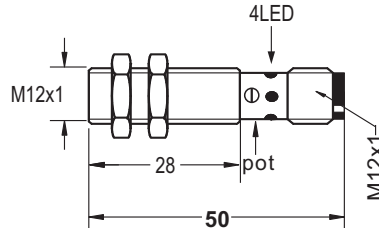
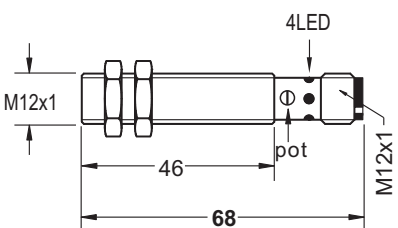
1



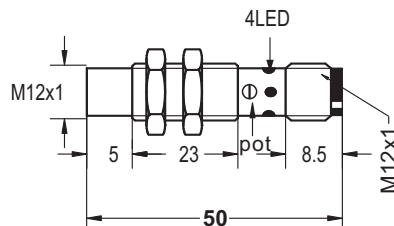
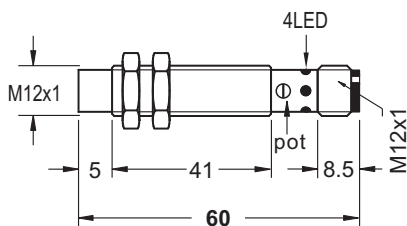
2



3



4



DC 电容式 -M18



特点描述/ Feature Description

- 可以检测金属,塑料,液体等不同物质
Wide range of detecting object: Metal, plastic, liquid etc
- 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- 外壳材料: 铜镀镍或PBT
Housing material: Nickel plated brass or PBT
- 防护等级 IP67(IEC)
Protection degree: IP67 (IEC)

普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
CA1M1808NA2-B□	M18	2-8mm	●	NPN	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M1808NB2-B□	M18	2-8mm	●	NPN	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M1808PA2-B□	M18	2-8mm	●	PNP	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M1808PB2-B□	M18	2-8mm	●	PNP	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M1808NK2-B□	M18	2-8mm	●	NPN	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M1808PK2-B□	M18	2-8mm	●	PNP	N.C.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA2M1815NA2-B□	M18	2-15mm	○	NPN	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M1815NB2-B□	M18	2-15mm	○	NPN	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M1815PA2-B□	M18	2-15mm	○	PNP	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M1815PB2-B□	M18	2-15mm	○	PNP	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M1815NK2-B□	M18	2-15mm	○	NPN	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M1815PK2-B□	M18	2-15mm	○	PNP	N.C.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA1M1808NAE-B□	M18	2-8mm	●	NPN	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M1808NBE-B□	M18	2-8mm	●	NPN	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M1808PAE-B□	M18	2-8mm	●	PNP	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M1808PBE-B□	M18	2-8mm	●	PNP	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M1808NKE-B□	M18	2-8mm	●	NPN	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M1808PKE-B□	M18	2-8mm	●	PNP	N.C.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA2M1815NAE-B□	M18	2-15mm	○	NPN	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M1815NBE-B□	M18	2-15mm	○	NPN	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M1815PAE-B□	M18	2-15mm	○	PNP	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M1815PBE-B□	M18	2-15mm	○	PNP	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M1815NKE-B□	M18	2-15mm	○	NPN	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M1815PKE-B□	M18	2-15mm	○	PNP	N.C.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4

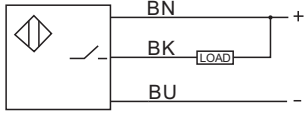
塑料管选型/Housing material :PBT

CA1M1808NA2-P□	M18	2-8mm	●	NPN	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M1808NB2-P□	M18	2-8mm	●	NPN	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M1808PA2-P□	M18	2-8mm	●	PNP	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M1808PB2-P□	M18	2-8mm	●	PNP	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M1808NK2-P□	M18	2-8mm	●	NPN	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M1808PK2-P□	M18	2-8mm	●	PNP	N.C.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA2M1815NA2-P□	M18	2-15mm	○	NPN	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M1815NB2-P□	M18	2-15mm	○	NPN	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M1815PA2-P□	M18	2-15mm	○	PNP	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M1815PB2-P□	M18	2-15mm	○	PNP	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M1815NK2-P□	M18	2-15mm	○	NPN	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M1815PK2-P□	M18	2-15mm	○	PNP	N.C.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA1M1808NAE-P□	M18	2-8mm	●	NPN	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M1808NBE-P□	M18	2-8mm	●	NPN	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M1808PAE-P□	M18	2-8mm	●	PNP	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M1808PBE-P□	M18	2-8mm	●	PNP	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M1808NKE-P□	M18	2-8mm	●	NPN	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M1808PKE-P□	M18	2-8mm	●	PNP	N.C.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA2M1815NAE-P□	M18	2-15mm	○	NPN	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M1815NBE-P□	M18	2-15mm	○	NPN	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M1815PAE-P□	M18	2-15mm	○	PNP	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M1815PBE-P□	M18	2-15mm	○	PNP	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M1815NKE-P□	M18	2-15mm	○	NPN	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M1815PKE-P□	M18	2-15mm	○	PNP	N.C.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4

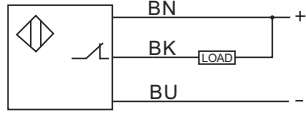
电气接线图 Connection diagram

电缆接线 / Connection diagrams

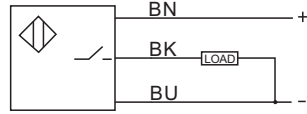
DC 3 Wire NPN-N.O.



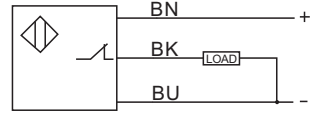
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

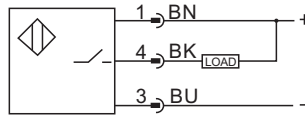


DC 3 Wire PNP-N.C.

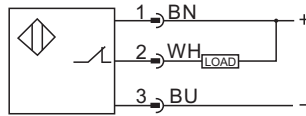


插接件接线 / Connection diagrams

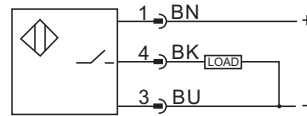
DC 3 Wire NPN-N.O.



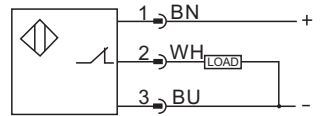
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

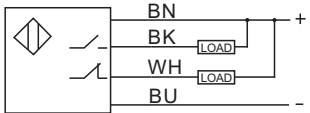


DC 3 Wire PNP-N.C.

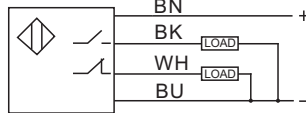


电缆接线 / Connection diagrams

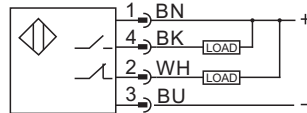
DC 4 Wire NPN-N.O.& N.C.



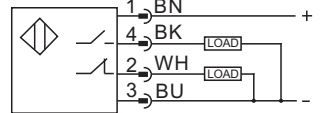
DC 4 Wire PNP-N.O.& N.C.



DC 4 Wire NPN-N.O.& N.C.

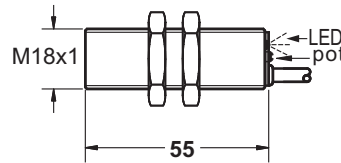
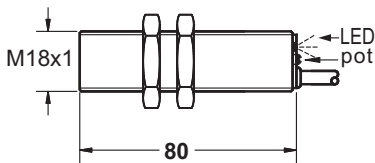


DC 4 Wire PNP-N.O.& N.C.

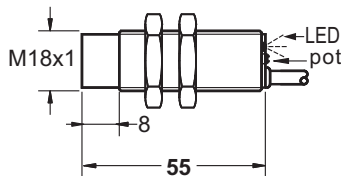
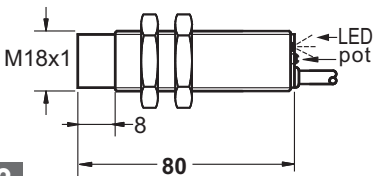


尺寸图 Dimension drawing (unit: mm)

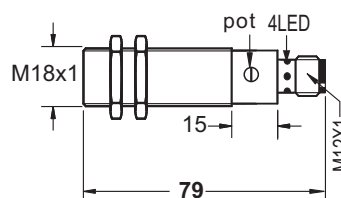
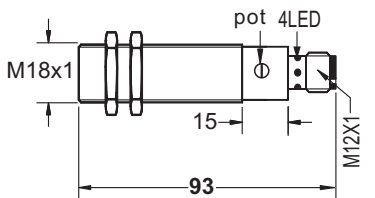
1



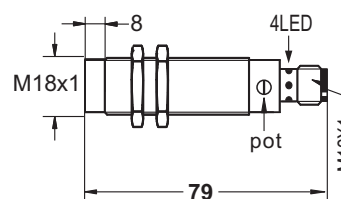
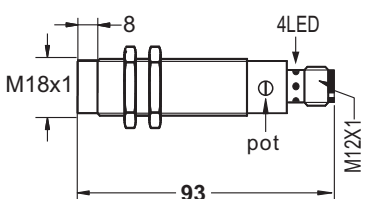
2



3



4



DC 电容式 -M30



特点描述/ Feature Description

- ◆ 可以检测金属,塑料,液体等不同物质
Wide range of detecting object: Metal, plastic, liquid etc
- ◆ 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料: 铜镀镍或PBT
Housing material: Nickel plated brass or PBT
- ◆ 防护等级 IP67(IEC)
Protection degree: IP67 (IEC)

金属管选型/Nickel plated brass:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
CA1M3020NA2-B	M30	2~20mm	●	NPN	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M3020NB2-B	M30	2~20mm	●	NPN	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M3020PA2-B	M30	2~20mm	●	PNP	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M3020PB2-B	M30	2~20mm	●	PNP	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M3020NK2-B	M30	2~20mm	●	NPN	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M3020PK2-B	M30	2~20mm	●	PNP	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA2M3030NA2-B	M30	2~30mm	○	NPN	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M3030NB2-B	M30	2~30mm	○	NPN	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M3030PA2-B	M30	2~30mm	○	PNP	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M3030PB2-B	M30	2~30mm	○	PNP	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M3030NK2-B	M30	2~30mm	○	NPN	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M3030PK2-B	M30	2~30mm	○	PNP	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA1M3020NAE-B	M30	2~20mm	●	NPN	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M3020NBE-B	M30	2~20mm	●	NPN	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M3020PAE-B	M30	2~20mm	●	PNP	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M3020PBE-B	M30	2~20mm	●	PNP	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M3020NKE-B	M30	2~20mm	●	NPN	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M3020PKE-B	M30	2~20mm	●	PNP	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA2M3030NAE-B	M30	2~30mm	○	NPN	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M3030NBE-B	M30	2~30mm	○	NPN	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M3030PAE-B	M30	2~30mm	○	PNP	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M3030PBE-B	M30	2~30mm	○	PNP	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M3030NKE-B	M30	2~30mm	○	NPN	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M3030PKE-B	M30	2~30mm	○	PNP	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4

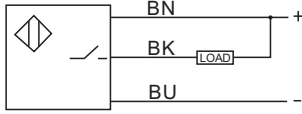
塑料管选型/Housing material :PBT

CA1M3020NA2-P	M30	2~20mm	●	NPN	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M3020NB2-P	M30	2~20mm	●	NPN	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M3020PA2-P	M30	2~20mm	●	PNP	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M3020PB2-P	M30	2~20mm	●	PNP	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M3020NK2-P	M30	2~20mm	●	NPN	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA1M3020PK2-P	M30	2~20mm	●	PNP	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	1
CA2M3030NA2-P	M30	2~30mm	○	NPN	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M3030NB2-P	M30	2~30mm	○	NPN	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M3030PA2-P	M30	2~30mm	○	PNP	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M3030PB2-P	M30	2~30mm	○	PNP	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M3030NK2-P	M30	2~30mm	○	NPN	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA2M3030PK2-P	M30	2~30mm	○	PNP	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	2M PVC Cable	2
CA1M3020NAE-P	M30	2~20mm	●	NPN	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M3020NBE-P	M30	2~20mm	●	NPN	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M3020PAE-P	M30	2~20mm	●	PNP	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M3020PBE-P	M30	2~20mm	●	PNP	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M3020NKE-P	M30	2~20mm	●	NPN	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA1M3020PKE-P	M30	2~20mm	●	PNP	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	3
CA2M3030NAE-P	M30	2~30mm	○	NPN	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M3030NBE-P	M30	2~30mm	○	NPN	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M3030PAE-P	M30	2~30mm	○	PNP	N.O.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M3030PBE-P	M30	2~30mm	○	PNP	N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M3030NKE-P	M30	2~30mm	○	NPN	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4
CA2M3030PKE-P	M30	2~30mm	○	PNP	N.O.&N.C.	10-30V	300mA	100HZ	-25℃~+70℃	M12 Euro style	4

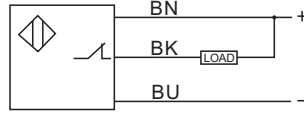
电气接线图 Connection diagram

电缆接线 / Connection diagrams

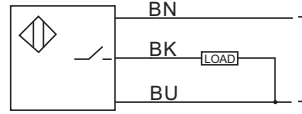
DC 3 Wire NPN-N.O.



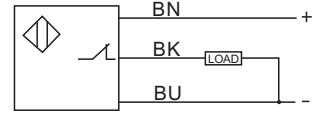
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

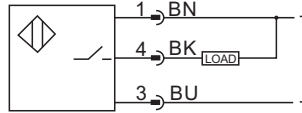


DC 3 Wire PNP-N.C.

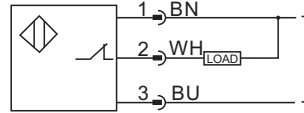


插接件接线 / Connection diagrams

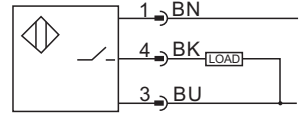
DC 3 Wire NPN-N.O.



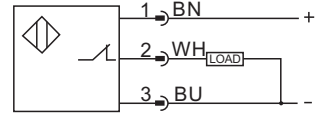
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

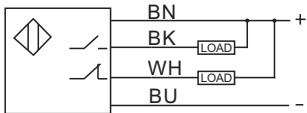


DC 3 Wire PNP-N.C.

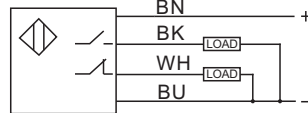


电缆接线 / Connection diagrams

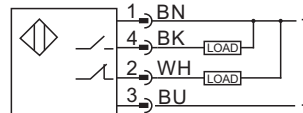
DC 4 Wire NPN-N.O.& N.C.



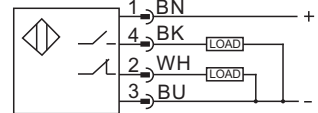
DC 4 Wire PNP-N.O.& N.C.



DC 4 Wire NPN-N.O.& N.C.

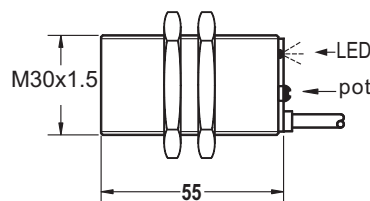
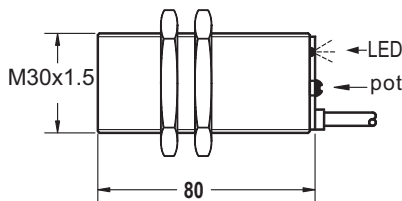


DC 4 Wire PNP-N.O.& N.C.

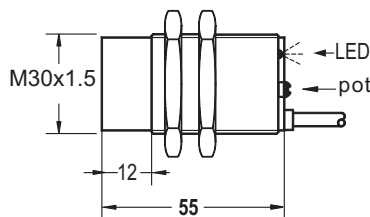
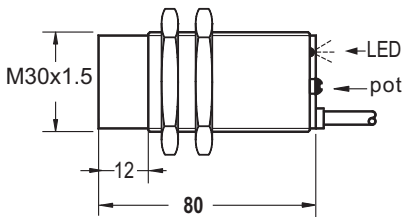


尺寸图 Dimension drawing (unit: mm)

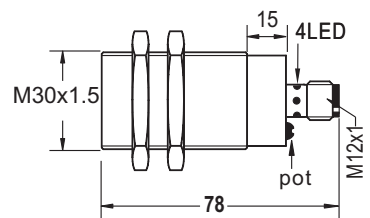
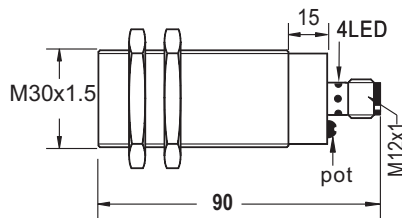
1



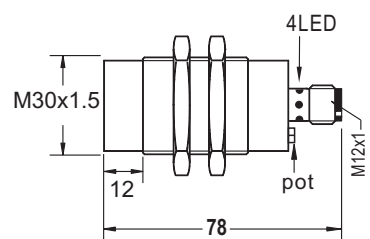
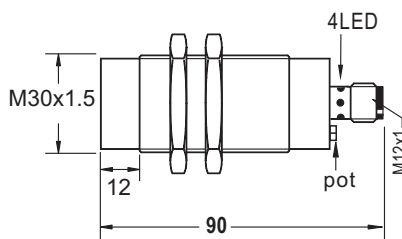
2



3



4



DC 电容式 -Q30



特点描述/ Feature Description

- 可以检测金属,塑料,液体等不同物质
Wide range of detecting object: Metal, plastic, liquid etc
- 浪涌, 过载, 短路, 逆极性保护功能
Surge, overload and reverse polarity protection
- 外壳材料: PBT
Housing material : PBT
- 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

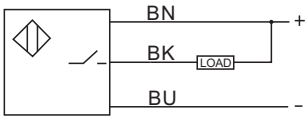
普通距离选型/Normal Sensing:

型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
CA1Q3006NA2-P	Q30	2~6mm	●	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	
CA1Q3006NB2-P	Q30	2~6mm	●	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	
CA1Q3006PA2-P	Q30	2~6mm	●	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	
CA1Q3006PB2-P	Q30	2~6mm	●	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	
CA2Q3010NA2-P	Q30	2~10mm	○	NPN	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	
CA2Q3010NB2-P	Q30	2~10mm	○	NPN	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	
CA2Q3010PA2-P	Q30	2~10mm	○	PNP	N.O.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	
CA2Q3010PB2-P	Q30	2~10mm	○	PNP	N.C.	10-30V	200mA	100HZ	-25℃~+70℃	2M PVC Cable	

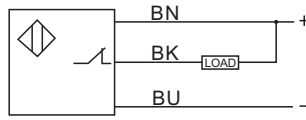
电气接线图 Connection diagram

电缆接线 / Connection diagrams

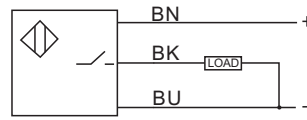
DC 3 Wire NPN-N.O.



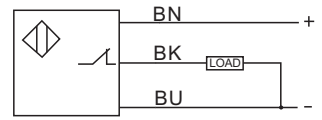
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

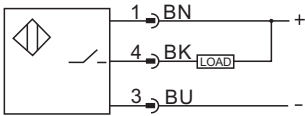


DC 3 Wire PNP-N.C.

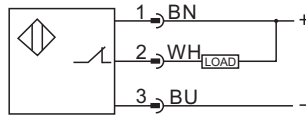


插接件接线 / Connection diagrams

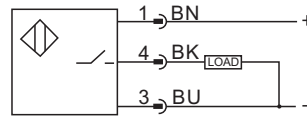
DC 3 Wire NPN-N.O.



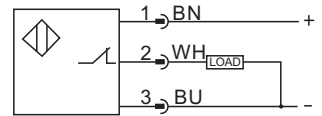
DC 3 Wire NPN-N.C.



DC 3 Wire PNP-N.O.

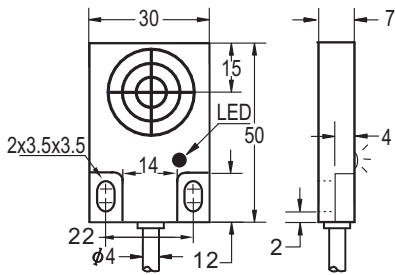


DC 3 Wire PNP-N.C.



尺寸图 Dimension drawing (unit: mm)

1



金属圆柱型 20~250VAC-M18,M30



特点描述/ Feature Description

- 电源电压：20~250VAC
Power supply:20~250VAC
- 可以检测金属,塑料,液体等不同物质
Wide range of detecting object: Metal, plastic, liquid etc
- 外壳材料：铜镀镍或PBT
Housing material : Nickel plated brass or PBT
- 防护等级 IP67(IEC)
Protection degrEC : IP67 (IEC)

金属管选型/Nickel plated brass:

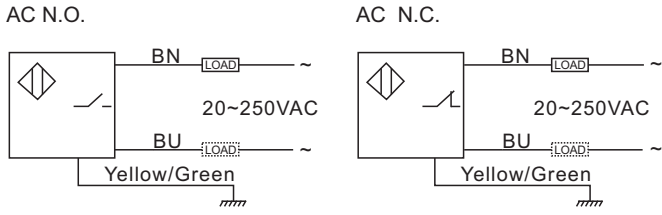
型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
CE1M1808AA2-B□	M18	2~8mm	●	AC	N.O.	20-250VAC	<300mA	25HZ	-25℃~+70℃	2M PVC Cable	1
CE1M1808AB2-B□	M18	2~8mm	●	AC	N.C.	20-250VAC	<300mA	25HZ	-25℃~+70℃	2M PVC Cable	1
CE2M1815AA2-B□	M18	2~15mm	○	AC	N.O.	20-250VAC	<300mA	25HZ	-25℃~+70℃	2M PVC Cable	2
CE2M1815AB2-B□	M18	2~15mm	○	AC	N.C.	20-250VAC	<300mA	25HZ	-25℃~+70℃	2M PVC Cable	2
CE1M1808AAE-B□	M18	2~8mm	●	AC	N.O.	20-250VAC	<300mA	25HZ	-25℃~+70℃	M12 Micro style	3
CE1M1808ABE-B□	M18	2~8mm	●	AC	N.C.	20-250VAC	<300mA	25HZ	-25℃~+70℃	M12 Micro style	3
CE2M1815AAE-B□	M18	2~15mm	○	AC	N.O.	20-250VAC	<300mA	25HZ	-25℃~+70℃	M12 Micro style	4
CE2M1815ABE-B□	M18	2~15mm	○	AC	N.C.	20-250VAC	<300mA	25HZ	-25℃~+70℃	M12 Micro style	4
CE1M3020AA2-B□	M30	2~20mm	●	AC	N.O.	20-250VAC	<300mA	25HZ	-25℃~+70℃	2M PVC Cable	5
CE1M3020AB2-B□	M30	2~20mm	●	AC	N.C.	20-250VAC	<300mA	25HZ	-25℃~+70℃	2M PVC Cable	5
CE2M3030AA2-B□	M30	2~30mm	○	AC	N.O.	20-250VAC	<300mA	25HZ	-25℃~+70℃	2M PVC Cable	6
CE2M3030AB2-B□	M30	2~30mm	○	AC	N.C.	20-250VAC	<300mA	25HZ	-25℃~+70℃	2M PVC Cable	6
CE1M3020AAE-B□	M30	2~20mm	●	AC	N.O.	20-250VAC	<300mA	25HZ	-25℃~+70℃	M12 Micro style	7
CE1M3020ABE-B□	M30	2~20mm	●	AC	N.C.	20-250VAC	<300mA	25HZ	-25℃~+70℃	M12 Micro style	7
CE2M3030AAE-B□	M30	2~30mm	○	AC	N.O.	20-250VAC	<300mA	25HZ	-25℃~+70℃	M12 Micro style	8
CE2M3030ABE-B□	M30	2~30mm	○	AC	N.C.	20-250VAC	<300mA	25HZ	-25℃~+70℃	M12 Micro style	8

塑料管选型/Housing material :PBT

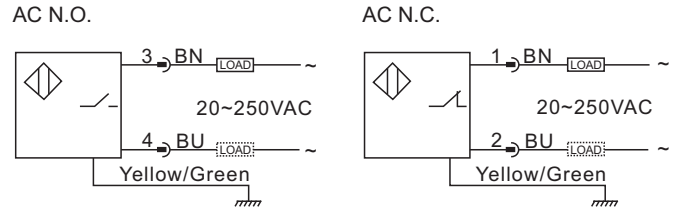
CE1M1808AA2-P□	M18	2~8mm	●	AC	N.O.	20-250VAC	<300mA	25HZ	-25℃~+70℃	2M PVC Cable	1
CE1M1808AB2-P□	M18	2~8mm	●	AC	N.C.	20-250VAC	<300mA	25HZ	-25℃~+70℃	2M PVC Cable	1
CE2M1815AA2-P□	M18	2~15mm	○	AC	N.O.	20-250VAC	<300mA	25HZ	-25℃~+70℃	2M PVC Cable	2
CE2M1815AB2-P□	M18	2~15mm	○	AC	N.C.	20-250VAC	<300mA	25HZ	-25℃~+70℃	2M PVC Cable	2
CE1M1808AAE-P□	M18	2~8mm	●	AC	N.O.	20-250VAC	<300mA	25HZ	-25℃~+70℃	M12 Micro style	3
CE1M1808ABE-P□	M18	2~8mm	●	AC	N.C.	20-250VAC	<300mA	25HZ	-25℃~+70℃	M12 Micro style	3
CE2M1815AAE-P□	M18	2~15mm	○	AC	N.O.	20-250VAC	<300mA	25HZ	-25℃~+70℃	M12 Micro style	4
CE2M1815ABE-P□	M18	2~15mm	○	AC	N.C.	20-250VAC	<300mA	25HZ	-25℃~+70℃	M12 Micro style	4
CE1M3020AA2-P□	M30	2~20mm	●	AC	N.O.	20-250VAC	<300mA	25HZ	-25℃~+70℃	2M PVC Cable	5
CE1M3020AB2-P□	M30	2~20mm	●	AC	N.C.	20-250VAC	<300mA	25HZ	-25℃~+70℃	2M PVC Cable	5
CE2M3030AA2-P□	M30	2~30mm	○	AC	N.O.	20-250VAC	<300mA	25HZ	-25℃~+70℃	2M PVC Cable	6
CE2M3030AB2-P□	M30	2~30mm	○	AC	N.C.	20-250VAC	<300mA	25HZ	-25℃~+70℃	2M PVC Cable	6
CE1M3020AAE-P□	M30	2~20mm	●	AC	N.O.	20-250VAC	<300mA	25HZ	-25℃~+70℃	M12 Micro style	7
CE1M3020ABE-P□	M30	2~20mm	●	AC	N.C.	20-250VAC	<300mA	25HZ	-25℃~+70℃	M12 Micro style	7
CE2M3030AAE-P□	M30	2~30mm	○	AC	N.O.	20-250VAC	<300mA	25HZ	-25℃~+70℃	M12 Micro style	8
CE2M3030ABE-P□	M30	2~30mm	○	AC	N.C.	20-250VAC	<300mA	25HZ	-25℃~+70℃	M12 Micro style	8

电气接线图 Connection diagram

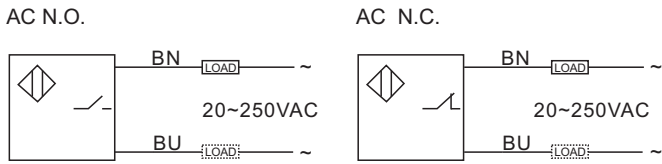
电缆接线(金属管) / Connection diagrams



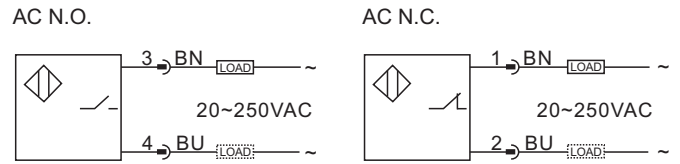
插接件接线(金属管) / Connection diagrams



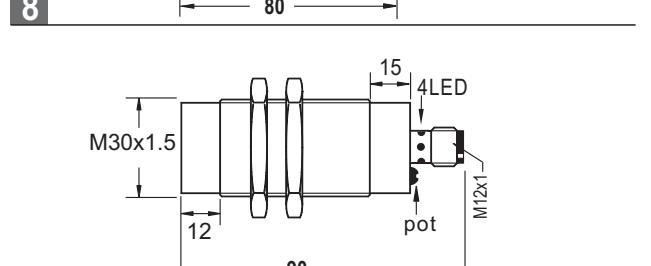
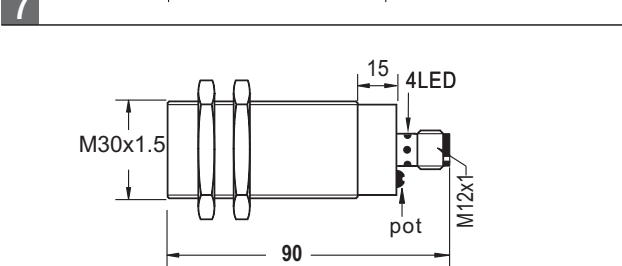
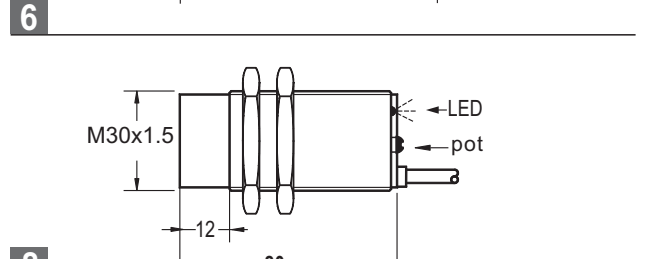
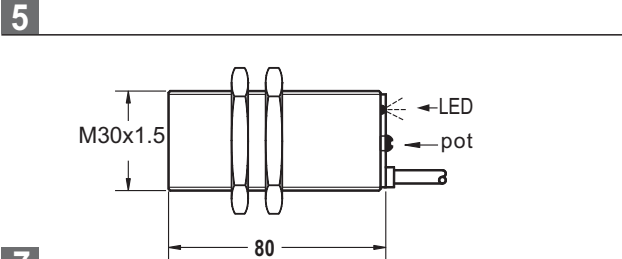
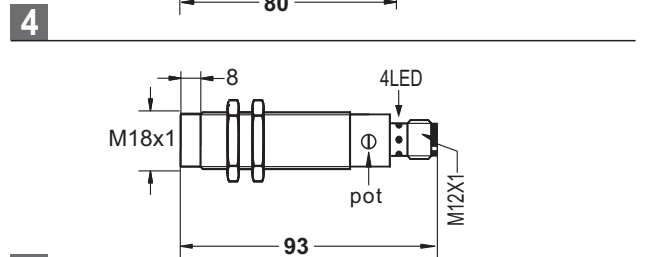
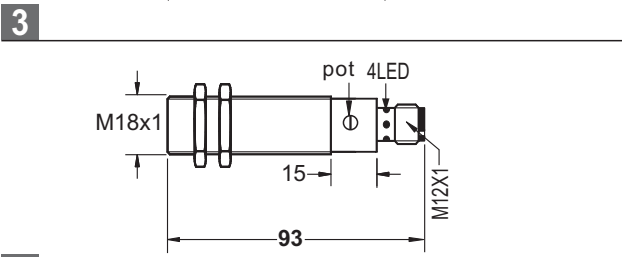
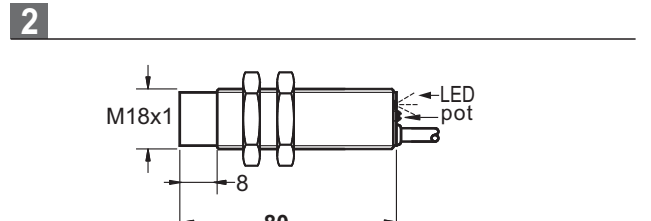
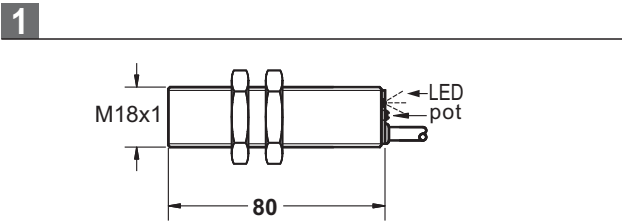
电缆接线(塑料管) / Connection diagrams



插接件接线(塑料管) / Connection diagrams



尺寸图 Dimension drawing (unit: mm)



金属圆柱型 20~250VAC/DC-M18,M30



CE

特点描述/ Feature Description

- 电源电压: 20~250VAC/DC
Power supply:20~250VAC/DC
- 可以检测金属,塑料,液体等不同物质
Wide range of detecting object: Metal, plastic, liquid etc
- 外壳材料: 铜镀镍或PBT
Housing material : Nickel plated brass or PBT
- 防护等级 IP67(IEC)
Protection degrEC : IP67 (IEC)

金属管选型/Nickel plated brass:

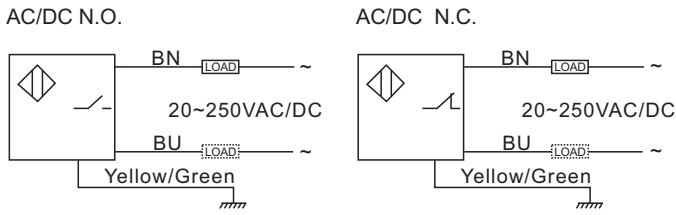
型号 Model	规格 Type	工作距离 Distance	齐平/非齐平 ● / ○	输出功能 Output function	输出类型 Output type	电源电压 Power supply	额定电流 Max. current	开关频率 Switching frequency	环境温度 Ambient temperature	接线方式 Wiring	机械图 Dimensions
CF1M1808AA2-B□	M18	2~8mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	1
CF1M1808AB2-B□	M18	2~8mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	1
CF2M1815AA2-B□	M18	2~15mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	2
CF2M1815AB2-B□	M18	2~15mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	2
CF1M1808AAE-B□	M18	2~8mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	3
CF1M1808ABE-B□	M18	2~8mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	3
CF2M1815AAE-B□	M18	2~15mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	4
CF2M1815ABE-B□	M18	2~15mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	4
CF1M3020AA2-B□	M30	2~20mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	5
CF1M3020AB2-B□	M30	2~20mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	5
CF2M3030AA2-B□	M30	2~30mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	6
CF2M3030AB2-B□	M30	2~30mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	6
CF1M3020AAE-B□	M30	2~20mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	7
CF1M3020ABE-B□	M30	2~20mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	7
CF2M3030AAE-B□	M30	2~30mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	8
CF2M3030ABE-B□	M30	2~30mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	8

塑料管选型/Housing material :PBT

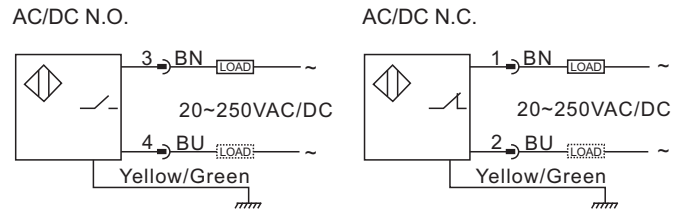
CF1M1808AA2-P□	M18	2~8mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	1
CF1M1808AB2-P□	M18	2~8mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	1
CF2M1815AA2-P□	M18	2~15mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	2
CF2M1815AB2-P□	M18	2~15mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	2
CF1M1808AAE-P□	M18	2~8mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	3
CF1M1808ABE-P□	M18	2~8mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	3
CF2M1815AAE-P□	M18	2~15mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	4
CF2M1815ABE-P□	M18	2~15mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	4
CF1M3020AA2-P□	M30	2~20mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	5
CF1M3020AB2-P□	M30	2~20mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	5
CF2M3030AA2-P□	M30	2~30mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	6
CF2M3030AB2-P□	M30	2~30mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	2M PVC Cable	6
CF1M3020AAE-P□	M30	2~20mm	●	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	7
CF1M3020ABE-P□	M30	2~20mm	●	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	7
CF2M3030AAE-P□	M30	2~30mm	○	AC/DC	N.O.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	8
CF2M3030ABE-P□	M30	2~30mm	○	AC/DC	N.C.	20-250VAC/DC	200mA	25HZ	-25℃~+70℃	M12 Micro style	8

电气接线图 Connection diagram

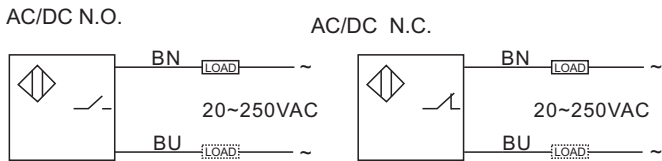
电缆接线(金属管) / Connection diagrams



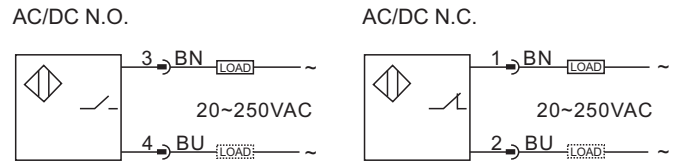
插接件接线(金属管) / Connection diagrams



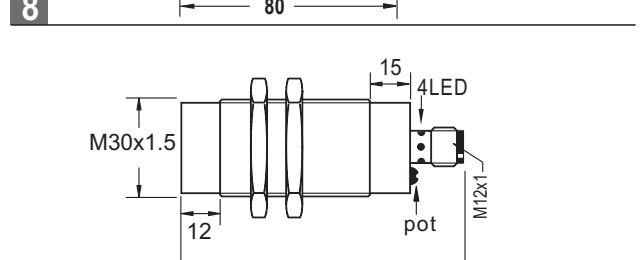
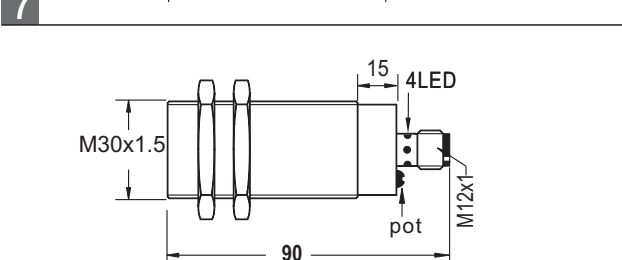
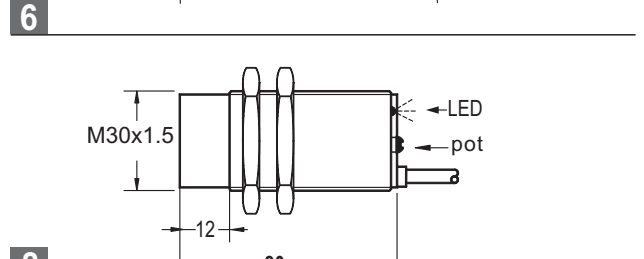
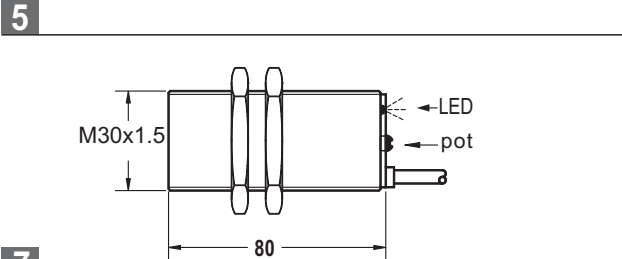
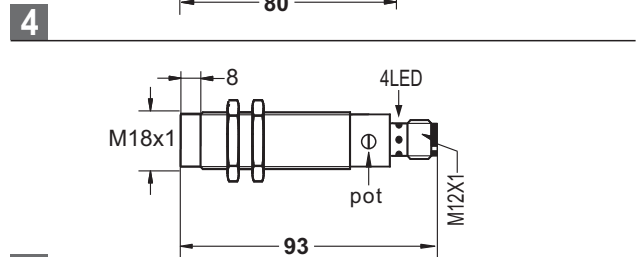
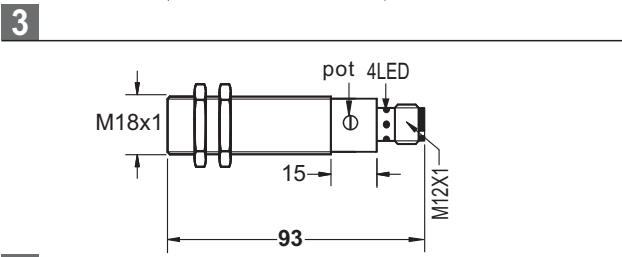
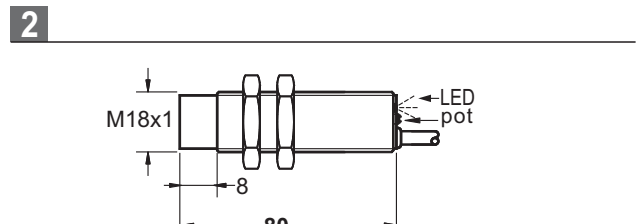
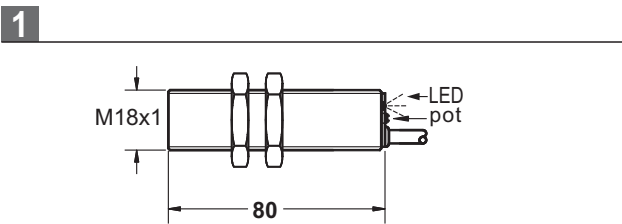
电缆接线(塑料管) / Connection diagrams



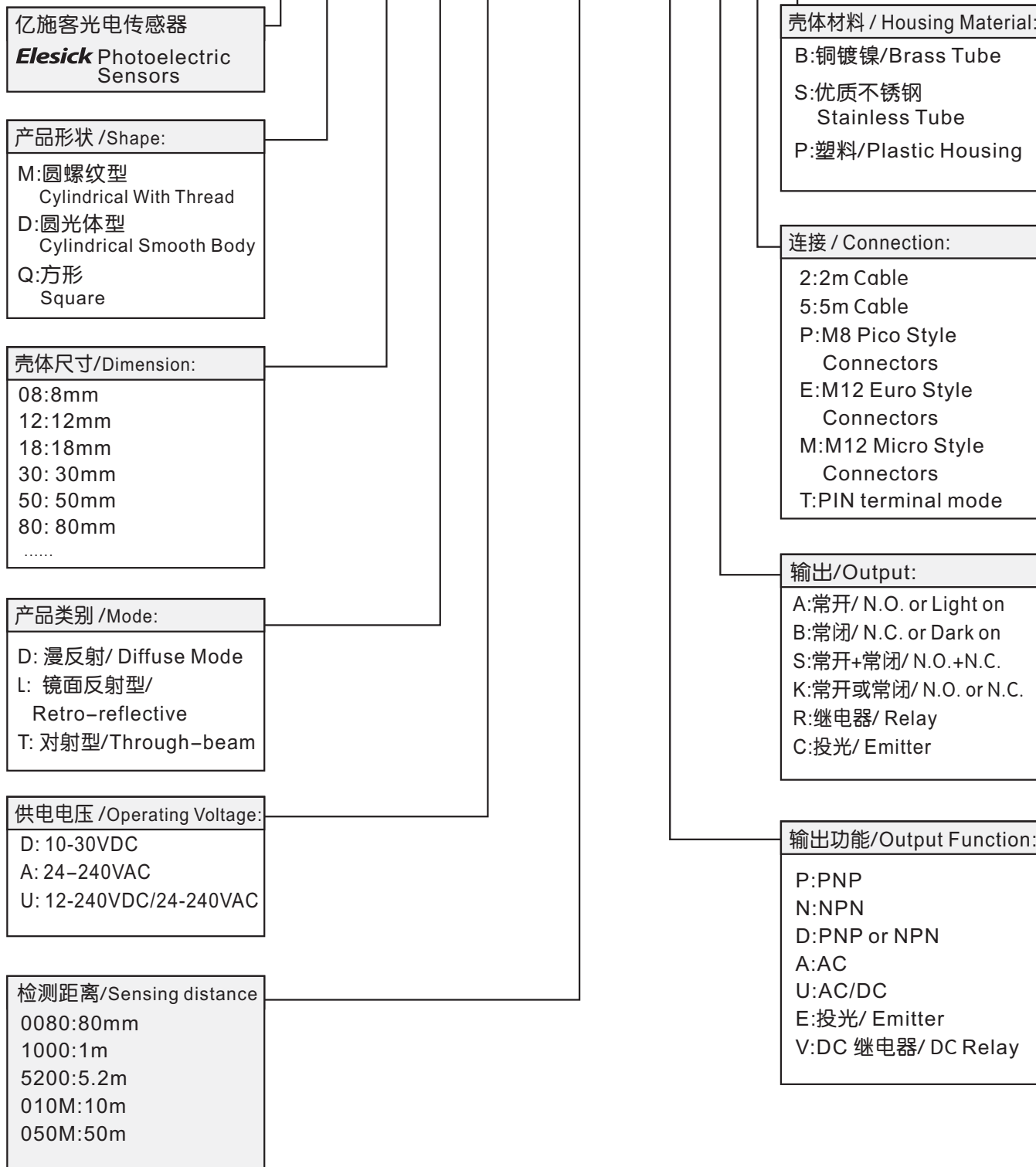
插接件接线(塑料管) / Connection diagrams



尺寸图 Dimension drawing (unit: mm)



E Q 50 T D 035M D K 2 P



光电传感器术语介绍

光电传感器工作原理

产品内置红外线二极管向被测物体发送一束调制光，被测物体将光束截断，部分被反射，其中一小部分光被接收器接收。产品的不同工作方式是对截断光束或反射光束的不同利用达到的。

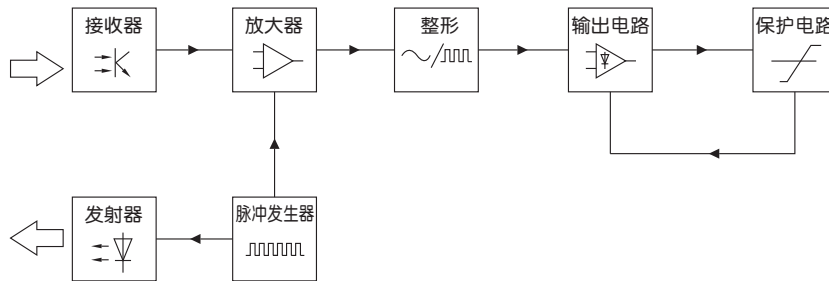
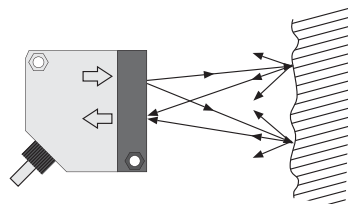


图1

Elesick光电传感器按工作方式分为：漫反射光电传感器、背景抑制式光电传感器、镜面反射式光电传感器、对射式光电传感器。

漫反射光电传感器

发光二极管发出的调制光在任意形状，颜色的物体上，光被反射到接收器接收面，被接收器接收，光的强度足够触动开关。工作距离取决于物体的尺寸颜色和物体的表面纹理。产品内部有灵敏度调整电位器可使感光度有很大的调制幅度。对于漫反射光电传感器，规定检测距离是用白色光面柯达纸作为被检测物测定的，其他物质修正值如下表。

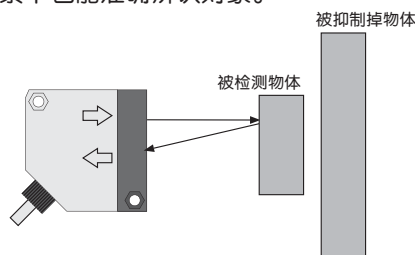


漫反射光电传感器

测试卡	检测距离比
白色柯达纸（标准）	100%
白纸	80%
灰色PVC	57%
印刷新闻纸	60%
浅色木胶	73%
软木	65%
白色塑料	70%
黑色塑料	22%
汽车轮胎	15%
铝壳（未处理）	200%
不锈钢（抛光处理）	230%

背景抑制式光电传感器

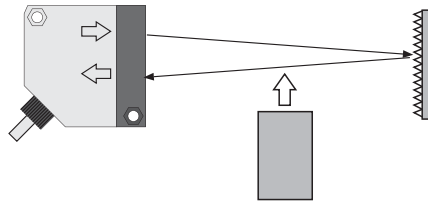
与漫反射光电传感器工作方式类似，但利用的是反射光的角度而不是反光量；因此工作距离不易受物体尺寸、颜色或表面纹理的影响，即使在强光背景下也能准确辨认对象。



背景抑制式光电传感器

镜面反射式光电传感器

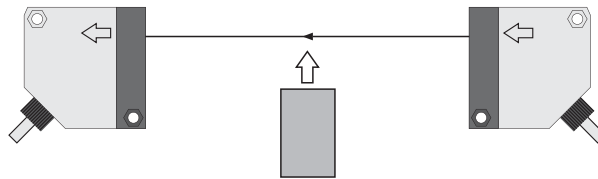
发光二极管发出的调制光经过透镜聚焦，通过偏振滤光镜到达接收器，部分反射光再次经过偏振滤光镜到达接收器，滤光镜只让反射镜反射过来的光到达接收器，表面光亮的物体因反射光不强而不易被接收。



镜片反射光电传感器

对射式光电传感器

接收器和发射器各有独立的外壳。发射器和接收器相对安装以使调制光尽可能为接收器接收。接收器会把调制光从其他光源区分开。



对射式光电传感器

技术术语

DARK-ON (暗通) :

暗通功能表示光没有到达接收器时,相应输出打开。

LIGHT-ON (亮通) :

亮通表示光到达开关时, 相应输出打开 (导通)。

MODULATED LIGHT (调制光) : 光发射器一个周期内开启时间远远小于关闭时间, 时间比为1 : 25。漫反射光电开关和反射板式光电开关中, 接收器只有在有脉冲时才工作, 在脉冲间隙则停止工作。

POLARITY REVERSAL PROTECTION (极性反转保护) :

本样本所有的传感器都有极性反转保护, 所有线路连接极性错误都不会损坏设备。但只有连接正确后, 才会工作。

DEGREES OF PROTECTION (防护等级) :

IP 防护等级由DIN40050/IEC60529 规定。

POWER-ON RESET (通电延时) :

传感器刚上电, 即使感应面前没有金属物, 物理原因使传感器输出激活一小段时间, 传感器内置通电延时装置后, 附加电路在开关上电后停止输出一小段时间, 以避免错误信号。

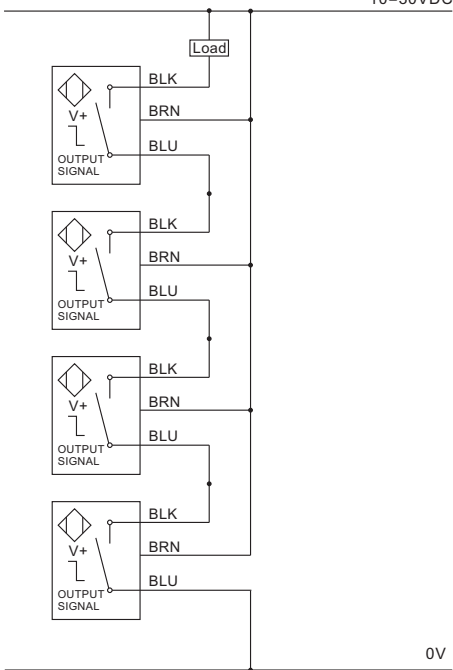
POLARIZATION FILTER (偏振滤光镜) :

自然光 (包括发光二极管发出的光) 都不是偏振光(图.36), 光通过偏振滤光镜时, 只剩下在偏振方向振动的那部分光

安装

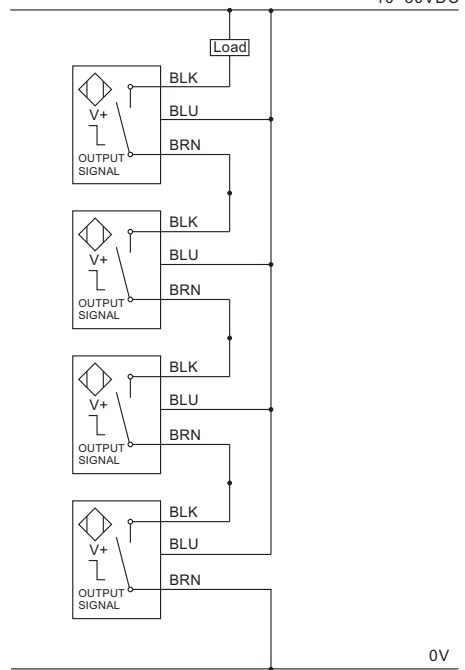
NPN输出型串联使用

10-30VDC



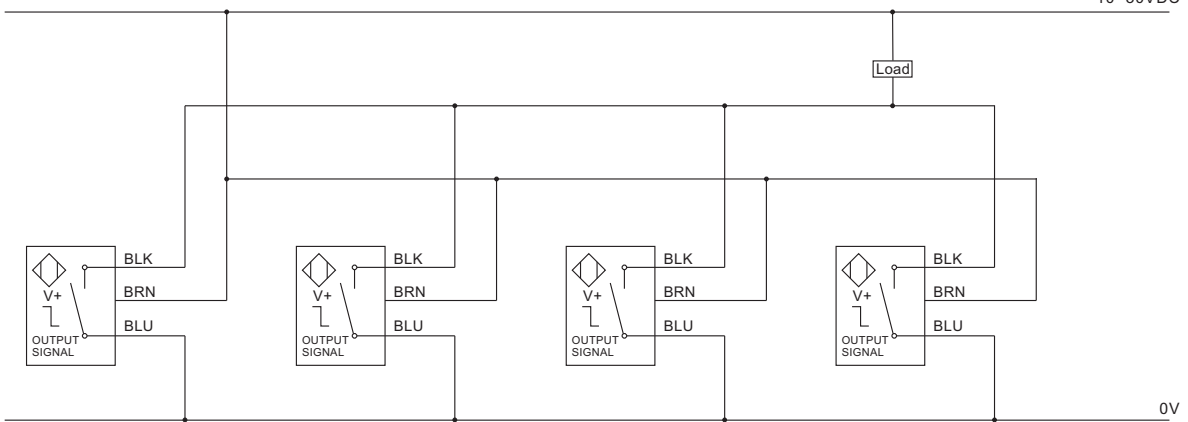
PNP输出型串联使用

10-30VDC



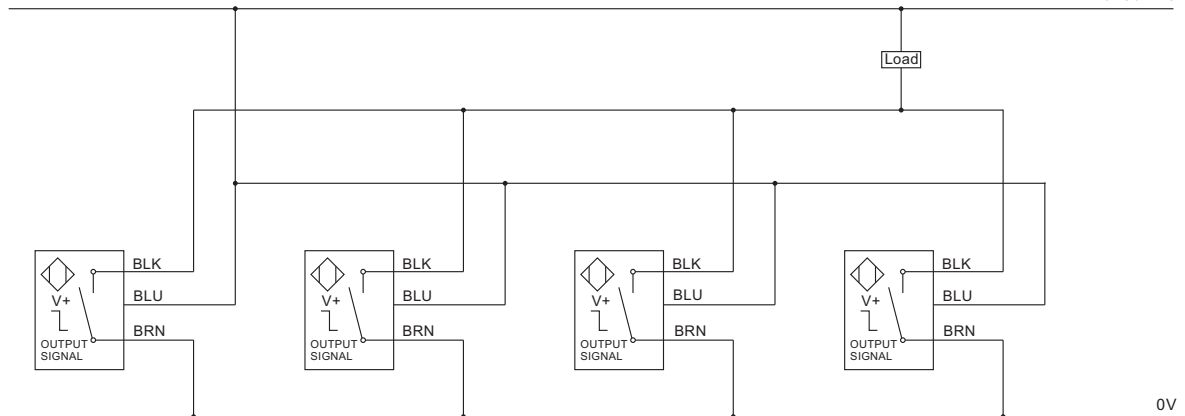
NPN输出型并联使用

10-30VDC



PNP输出型并联使用

10-30VDC



M8



特点描述/ Feature Description

- ◆ 采用专用 IC 制造，性能稳定
Performance more steady due to specialized IC
- ◆ 浪涌，过载，短路，逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料：不锈钢或铜镀镍
Housing material : Stainless steel or Nickel plated brass
- ◆ 防护等级 IP67 (IEC)
Protection degree : IP67 (IEC)

选型/Selection:

规格 Type	型号 Model	工作距离 Distance	输出功能 Output function	输出类型 Output type	开关频率 Switching frequency	光源 Emission	接线方式 Wiring	机械图 Dimensions	
对射型 Through-beam 	发射器 Emitter	EM8TD1000EC2S	-	-	-	Red(660)	2M PVC Cable	1	
	接收器 Receiver	EM8TD1000NA2S	1m	NPN	Light on	1KHZ	Red(660)	2M PVC Cable	1
		EM8TD1000A2S	1m	NPN	Dark on	1KHZ	Red(660)	2M PVC Cable	1
		EM8TD1000PA2S	1m	PNP	Light on	1KHZ	Red(660)	2M PVC Cable	1
EM8TD1000PA2S	1m	PNP	Dark on	1KHZ	Red(660)	2M PVC Cable	1		
对射型 Through-beam 	发射器 Emitter	EM8TD1000ECPS	-	-	-	Red(660)	M12 Euro style	2	
	接收器 Receiver	EM8TD1000NAPS	1m	NPN	Light on	1KHZ	Red(660)	M12 Euro style	2
		EM8TD1000NAPS	1m	NPN	Dark on	1KHZ	Red(660)	M12 Euro style	2
		EM8TD1000PAPS	1m	PNP	Light on	1KHZ	Red(660)	M12 Euro style	2
		EM8TD1000PAPS	1m	PNP	Dark on	1KHZ	Red(660)	M12 Euro style	2
对射型 Through-beam 	发射器 Emitter	EM8TD2000EC2S	-	-	-	Red(660)	2M PVC Cable	1	
	接收器 Receiver	EM8TD2000NA2S	2m	NPN	Light on	1KHZ	Red(660)	2M PVC Cable	1
		EM8TD2000A2S	2m	NPN	Dark on	1KHZ	Red(660)	2M PVC Cable	1
		EM8TD2000PA2S	2m	PNP	Light on	1KHZ	Red(660)	2M PVC Cable	1
		EM8TD2000PA2S	2m	PNP	Dark on	1KHZ	Red(660)	2M PVC Cable	1
对射型 Through-beam 	发射器 Emitter	EM8TD2000ECPS	-	-	-	Red(660)	M12 Euro style	2	
	接收器 Receiver	EM8TD2000NAPS	2m	NPN	Light on	1KHZ	Red(660)	M12 Euro style	2
		EM8TD2000NAPS	2m	NPN	Dark on	1KHZ	Red(660)	M12 Euro style	2
		EM8TD2000PAPS	2m	PNP	Light on	1KHZ	Red(660)	M12 Euro style	2
		EM8TD2000PAPS	2m	PNP	Dark on	1KHZ	Red(660)	M12 Euro style	2

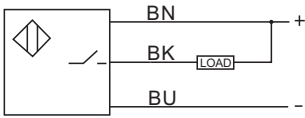
技术参数/Specification:

供电电压/Power supply	10...30VDC
纹波电压/Ripple	<10%
光源/Emission	红光/Red(660)
输出形式/Output	PNP/NPN
输出特征/Output Characteristics	亮通/暗通(Light on or Dark on)
最大负载电流/Max. Load Current	150mA
无负载电流/No Load Current	30mA or Less
电压降/Voltage Drop(Sensor On)	<2.5V
响应时间/Response Time	<1mS
短路保护/Short Circuit Protection	Yes
电气保护 /Electric Protections	Yes
工作温度 /Temperature Limits	-25 ~ +55°C
工作湿度 /Ambient humidity	35 to 85% RH
光源 /Light Immunity	>10.000Lux
防护等级 /Protection Degree	IP67

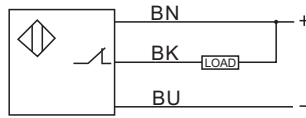
电气接线图 Connection diagram

电缆接线 / Connection diagrams

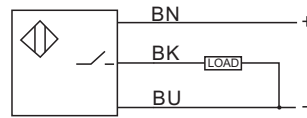
DC 3 Wire NPN-Light on



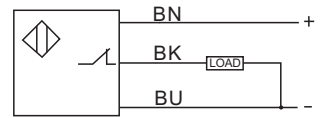
DC 3 Wire NPN-Dark on



DC 3 Wire PNP-Light on

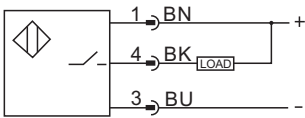


DC 3 Wire PNP-Dark on

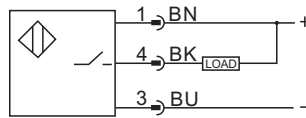


插接件接线 / Connection diagrams

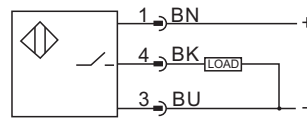
DC 3 Wire NPN-Light on



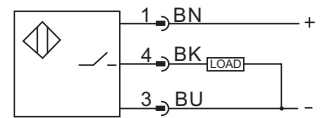
DC 3 Wire NPN-Dark on



DC 3 Wire PNP-Light on

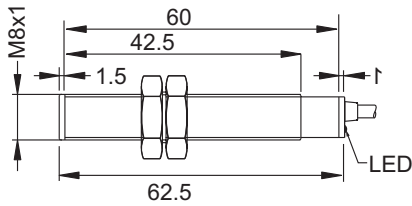


DC 3 Wire PNP-Dark on

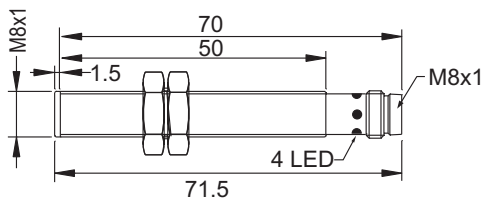


尺寸图 Dimension drawing (unit: mm)

1



2





特点描述/ Feature Description

- ◆ 采用专用 IC 制造，性能稳定
Performance more steady due to specialized IC
- ◆ 浪涌，过载，短路，逆极性保护功能
Surge, overload and reverse polarity protection
- ◆ 外壳材料：不锈钢或铜镀镍
Housing material : Stainless steel or Nickel plated brass
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

选型/Selection:

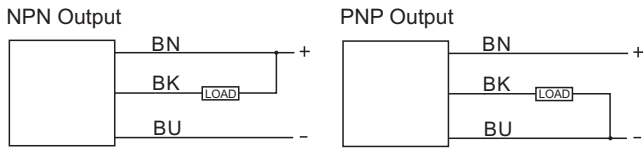
规格 Type	型号 Model	工作距离 Distance	输出功能 Output function	输出类型 Output type	开关频率 Switching frequency	光源 Emission	接线方式 Wiring	机械图 Dimensions	
对射型 Through-beam 	发射器 Emitter	EM12TD010MEC2B	-	-	-	Infrared(880nm)	2M PVC Cable	1	
	接收器 Receiver	EM12TD010MNA2B	10m	NPN	Light on	1KHZ	Infrared(880nm)	2M PVC Cable	1
		EM12TD010MNB2B	10m	NPN	Dark on	1KHZ	Infrared(880nm)	2M PVC Cable	1
		EM12TD010MPA2B	10m	PNP	Light on	1KHZ	Infrared(880nm)	2M PVC Cable	1
	EM12TD010MPB2B	10m	PNP	Dark on	1KHZ	Infrared(880nm)	2M PVC Cable	1	
对射型 Through-beam 	发射器 Emitter	EM12TD010MECPB	-	-	-	Infrared(880nm)	M12 Euro style	2	
	接收器 Receiver	EM12TD010MNAEB	10m	NPN	Light on	1KHZ	Infrared(880nm)	M12 Euro style	2
		EM12TD010MNBEB	10m	NPN	Dark on	1KHZ	Infrared(880nm)	M12 Euro style	2
		EM12TD010MPAEB	10m	PNP	Light on	1KHZ	Infrared(880nm)	M12 Euro style	2
	EM12TD010MPBEB	10m	PNP	Dark on	1KHZ	Infrared(880nm)	M12 Euro style	2	
漫反射型 Diffuse mode 	EM12DD0200NS2B	200mm	NPN	N.O. + N.C.	1KHZ	Infrared(880nm)	2M PVC Cable	1	
	EM12DD0200NS2B	200mm	NPN	N.O. + N.C.	1KHZ	Infrared(880nm)	2M PVC Cable	1	
	EM12DD0200PSEB	200mm	PNP	N.O. + N.C.	1KHZ	Infrared(880nm)	M12 Euro style	2	
	EM12DD0200PSEB	200mm	PNP	N.O. + N.C.	1KHZ	Infrared(880nm)	M12 Euro style	2	
镜面反射型 Retro-reflective mode 	EM12LD1500NS2B	1.5m	NPN	N.O. + N.C.	1KHZ	Infrared(880nm)	2M PVC Cable	1	
	EM12LD1500NS2B	1.5m	NPN	N.O. + N.C.	1KHZ	Infrared(880nm)	2M PVC Cable	1	
	EM12LD1500PSEB	1.5m	PNP	N.O. + N.C.	1KHZ	Infrared(880nm)	M12 Euro style	2	
	EM12LD1500PSEB	1.5m	PNP	N.O. + N.C.	1KHZ	Infrared(880nm)	M12 Euro style	2	

技术参数/Specification:

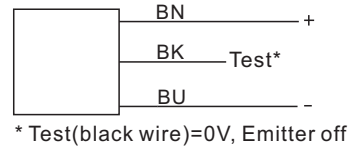
供电电压/Power supply	10...30VDC
纹波电压/Ripple	<10%
光源/Emission	红光/Red(660)
输出形式/Output	PNP/NPN
输出特征/Output Characteristics	亮通/暗通(Light on or Dark on)
最大负载电流/Max. Load Current	≤150mA
无负载电流/No Load Current	30mA or Less
电压降/Voltage Drop(Sensor On)	<2.5V
响应时间/Response Time	≤1mS
短路保护/Short Circuit Protection	Yes
电气保护 /Electric Protections	Yes
工作温度 /Temperature Limits	-25 ~ +55℃
工作湿度 /Ambient humidity	35 to 85% RH
光源 /Light Immunity	>10.000Lux
防护等级 /Protection Degree	IP67
连接形式 /Connection Type	2M PVC Cable, M12 Euro style

电气接线图 Connection diagram

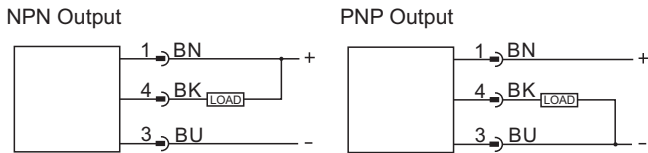
对射型接收器接线图/Receiver output



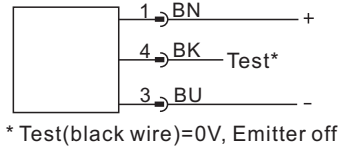
对射型发射器接线图/Emitter output



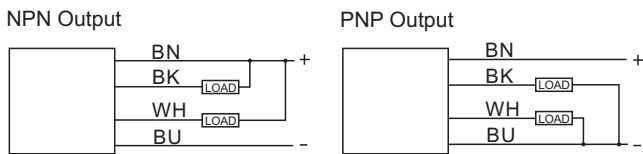
对射型接收器接线图/Receiver output



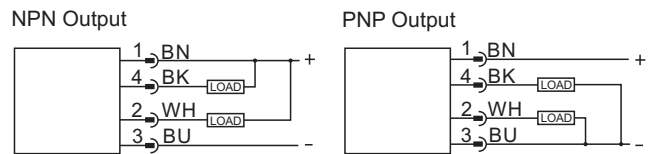
对射型发射器接线图/Emitter output



镜面、漫反式接线图/Retro-reflective & Diffuse mode



镜面、漫反式接线图/Retro-reflective & Diffuse mode

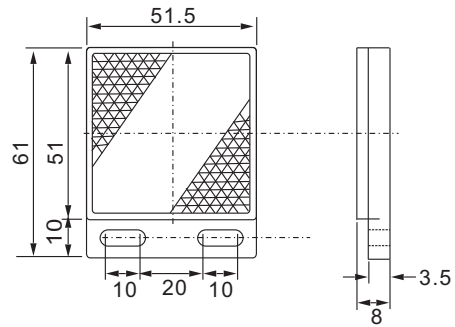
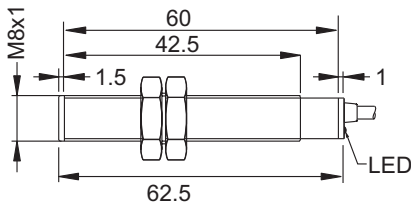


尺寸图 Dimension drawing(unit: mm)

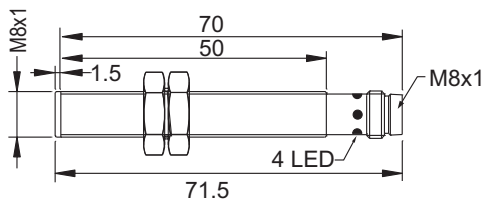
附件 Accessories (unit:mm)

1

3 A51



2





特点描述/ Feature Description

- 采用专用 IC 制造，性能稳定
Performance more steady due to specialized IC
- 单负载可编程输出型
With Light On Or Dark On Programmable Output
- 浪涌，过载，短路，逆极性保护功能
Surge, overload and reverse polarity protection
- 外壳材料：PBT塑料或铜镀镍
Housing material : PBT Plastic or Nickel plated brass
- 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

选型/Selection:

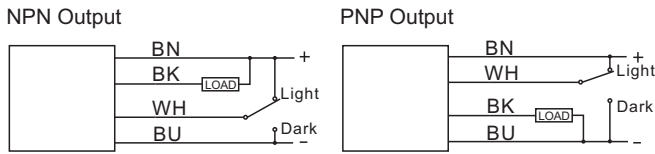
规格 Type	型号 Model	工作距离 Distance	输出功能 Output function	输出类型 Output type	开关频率 Switching frequency	光源 Emission	接线方式 Wiring	机械图 Dimensions	
对射型 Through-beam 	发射器 Emitter	EM18TD015MEC2B	-	-	-	Infrared(880nm)	2M PVC Cable	1	
	接收器 Receiver	EM18TD015MNK2B	15m	NPN	Light on or Dark on	1KHZ	Infrared(880nm)	2M PVC Cable	1
		EM18TD015MPK2B	15m	PNP	Light on or Dark on	1KHZ	Infrared(880nm)	2M PVC Cable	1
对射型 Through-beam 	发射器 Emitter	EM18TD015MECEB	-	-	-	Infrared(880nm)	M12 Euro style	2	
	接收器 Receiver	EM18TD015MNKEB	15m	NPN	Light on or Dark on	1KHZ	Infrared(880nm)	M12 Euro style	2
		EM18TD015MPKEB	15m	PNP	Light on or Dark on	1KHZ	Infrared(880nm)	M12 Euro style	2
漫反射型 Diffuse mode 	EM18DD0150NK2B	150mm	NPN	Light on or Dark on	1KHZ	Infrared(880nm)	2M PVC Cable	1	
	EM18DD0150PK2B	150mm	PNP	Light on or Dark on	1KHZ	Infrared(880nm)	2M PVC Cable	1	
	EM18DD0500NK2B	500mm	NPN	Light on or Dark on	1KHZ	Infrared(880nm)	2M PVC Cable	1	
	EM18DD0500PK2B	500mm	PNP	Light on or Dark on	1KHZ	Infrared(880nm)	2M PVC Cable	1	
漫反射型 Diffuse mode 	EM18DD0150NKEB	150mm	NPN	Light on or Dark on	1KHZ	Infrared(880nm)	M12 Euro style	2	
	EM18DD0150PKEB	150mm	PNP	Light on or Dark on	1KHZ	Infrared(880nm)	M12 Euro style	2	
	EM18DD0500NKEB	500mm	NPN	Light on or Dark on	1KHZ	Infrared(880nm)	M12 Euro style	2	
	EM18DD0500PKEB	500mm	PNP	Light on or Dark on	1KHZ	Infrared(880nm)	M12 Euro style	2	
镜面反射型 Retro-reflective mode 	EM18LD3000NK2B	3m	NPN	Light on or Dark on	1KHZ	Infrared(880nm)	2M PVC Cable	1	
	EM18LD3000PK2B	3m	PNP	Light on or Dark on	1KHZ	Infrared(880nm)	2M PVC Cable	1	
镜面反射型 Retro-reflective mode 	EM18LD3000NKEB	3m	NPN	Light on or Dark on	1KHZ	Infrared(880nm)	M12 Euro style	2	
	EM18LD3000PKEB	3m	PNP	Light on or Dark on	1KHZ	Infrared(880nm)	M12 Euro style	2	

技术参数/Specification:

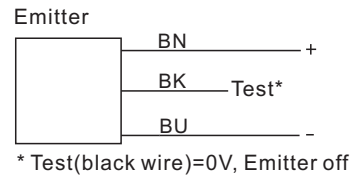
供电电压/Power supply	10...30VDC
纹波电压/Ripple	<10%
光源/Emission	Infrared(880nm)
输出形式/Output	PNP/NPN
输出特征/Output Characteristics	亮通/暗通(Light on or Dark on)
最大负载电流/Max. Load Current	≤200mA
无负载电流/No Load Current	30mA or Less
电压降/Voltage Drop(Sensor On)	<2.5V
响应时间/Response Time	≤1mS
短路保护/Short Circuit Protection	Yes
电气保护 /Electric Protections	Yes
工作温度 /Temperature Limits	-25 ~ +55℃
工作湿度 /Ambient humidity	35 to 85% RH
光源 /Light Immunity	>10.000Lux
防护等级 /Protection Degree	IP67
连接形式 /Connection Type	2M PVC Cable, M12 Euro style

电气接线图 Connection diagram

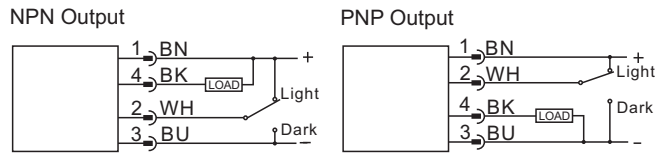
对射型接收器接线图/Receiver output



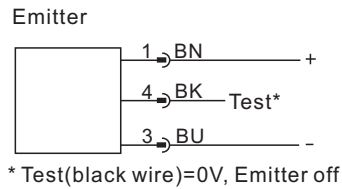
对射型发射器接线图/Emitter



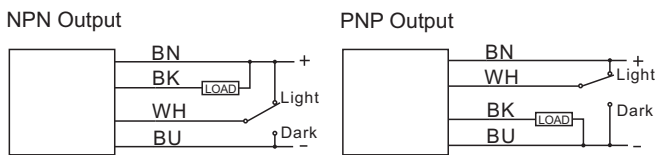
对射型接收器接线图/Receiver output



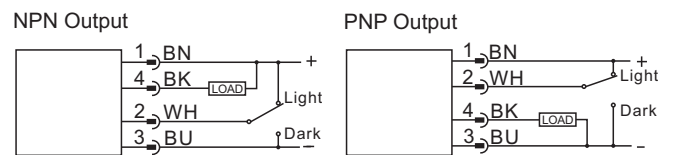
对射型发射器接线图/Emitter output



镜面、漫反式接线图/Retro-reflective & Diffuse mode

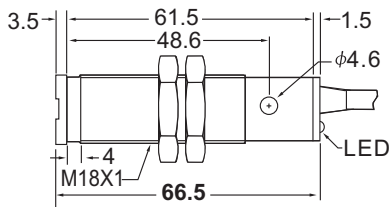


镜面、漫反式接线图/Retro-reflective & Diffuse mode

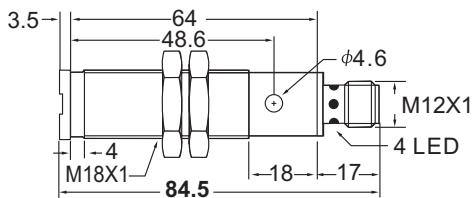


尺寸图 Dimension drawing(unit: mm)

1

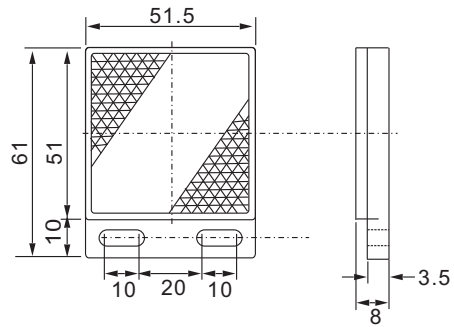


2



附件 Accessories (unit:mm)

3 A51





特点描述/ Feature Description

- 采用专用 IC 制造，性能稳定
Performance more steady due to specialized IC
- 两负载可编程输出型
With N.O.+N.C. Programmable Output
- 浪涌，过载，短路，逆极性保护功能
Surge, overload and reverse polarity protection
- 外壳材料：PBT塑料或铜镀镍
Housing material : PBT Plastic or Nickel plated brass
- 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

选型/Selection:

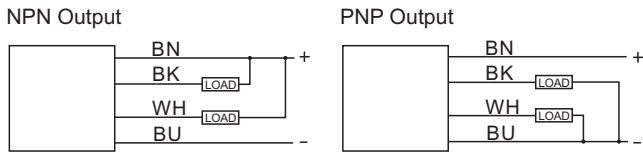
规格 Type	型号 Model	工作距离 Distance	输出功能 Output function	输出类型 Output type	开关频率 Switching frequency	光源 Emission	接线方式 Wiring	机械图 Dimensions	
对射型 Through-beam 	发射器 Emitter	EM18TD015MEC2B	-	-	-	Infrared(880nm)	2M PVC Cable	1	
	接收器 Receiver	EM18TD015MNS2B	15m	NPN	N.O. + N.C.	1KHZ	Infrared(880nm)	2M PVC Cable	1
		EM18TD015MPS2B	15m	PNP	N.O. + N.C.	1KHZ	Infrared(880nm)	2M PVC Cable	1
对射型 Through-beam 	发射器 Emitter	EM18TD015MECEB	-	-	-	Infrared(880nm)	M12 Euro style	2	
	接收器 Receiver	EM18TD015MNSEB	15m	NPN	N.O. + N.C.	1KHZ	Infrared(880nm)	M12 Euro style	2
		EM18TD015MPSEB	15m	PNP	N.O. + N.C.	1KHZ	Infrared(880nm)	M12 Euro style	2
漫反射型 Diffuse mode 	EM18DD0150NS2B	150mm	NPN	N.O. + N.C.	1KHZ	Infrared(880nm)	2M PVC Cable	1	
	EM18DD0150PS2B	150mm	PNP	N.O. + N.C.	1KHZ	Infrared(880nm)	2M PVC Cable	1	
	EM18DD0500NS2B	500mm	NPN	N.O. + N.C.	1KHZ	Infrared(880nm)	2M PVC Cable	1	
	EM18DD0500PS2B	500mm	PNP	N.O. + N.C.	1KHZ	Infrared(880nm)	2M PVC Cable	1	
漫反射型 Diffuse mode 	EM18DD0150NSEB	150mm	NPN	N.O. + N.C.	1KHZ	Infrared(880nm)	M12 Euro style	2	
	EM18DD0150PSEB	150mm	PNP	N.O. + N.C.	1KHZ	Infrared(880nm)	M12 Euro style	2	
	EM18DD0500NSEB	500mm	NPN	N.O. + N.C.	1KHZ	Infrared(880nm)	M12 Euro style	2	
	EM18DD0500PSEB	500mm	PNP	N.O. + N.C.	1KHZ	Infrared(880nm)	M12 Euro style	2	
镜面反射型 Retro-reflective mode 	EM18LD3000NS2B	3m	NPN	N.O. + N.C.	1KHZ	Infrared(880nm)	2M PVC Cable	1	
	EM18LD3000PS2B	3m	PNP	N.O. + N.C.	1KHZ	Infrared(880nm)	2M PVC Cable	1	
镜面反射型 Retro-reflective mode 	EM18LD3000NSEB	3m	NPN	N.O. + N.C.	1KHZ	Infrared(880nm)	M12 Euro style	2	
	EM18LD3000PSEB	3m	PNP	N.O. + N.C.	1KHZ	Infrared(880nm)	M12 Euro style	2	

技术参数/Specification:

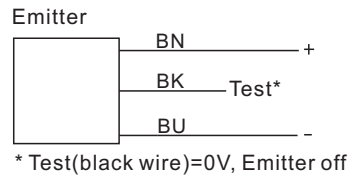
供电电压/Power supply	10...30VDC
纹波电压/Ripple	<10%
光源/Emission	Infrared(880nm)
输出形式/Output	PNP or NPN
输出特征/Output Characteristics	N.O. + N.C.
最大负载电流/Max. Load Current	≤200mA
无负载电流/No Load Current	30mA or Less
电压降/Voltage Drop(Sensor On)	<2.5V
响应时间/Response Time	≤1mS
短路保护/Short Circuit Protection	Yes
电气保护 /Electric Protections	Yes
工作温度 /Temperature Limits	-25 ~ +55℃
工作湿度 /Ambient humidity	35 to 85% RH
光源 /Light Immunity	>10.000Lux
防护等级 /Protection Degree	IP67
连接形式 /Connection Type	2M PVC Cable, M12 Euro style

电气接线图 Connection diagram

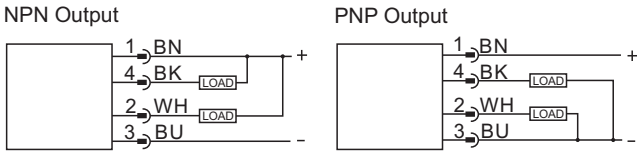
对射型接收器接线图/Receiver output



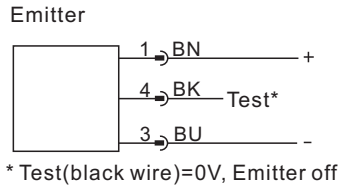
对射型发射器接线图/Emitter



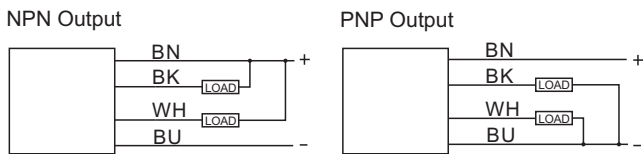
对射型接收器接线图/Receiver output



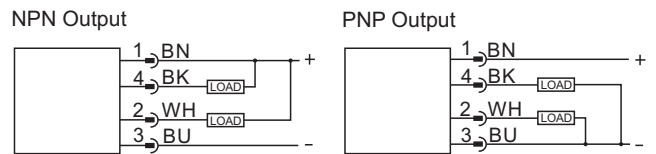
对射型发射器接线图/Emitter output



镜面、漫反式接线图/Retro-reflective & Diffuse mode

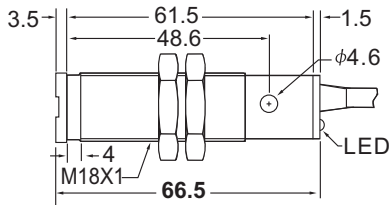


镜面、漫反式接线图/Retro-reflective & Diffuse mode

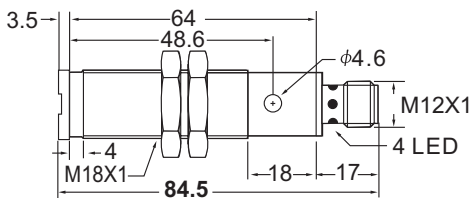


尺寸图 Dimension drawing(unit: mm)

1

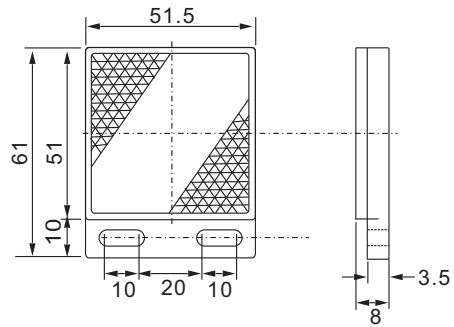


2



附件 Accessories (unit:mm)

3 A51



M18 多功能可编程输出型 / M18 with multifunctional output(NPN,PNP,NO,NC all in a single sensor)



特点描述/ Feature Description

- 采用专用 IC 制造，性能稳定
Performance more steady due to specialized IC
- 多功能可编程输出型(NPN,PNP,N.O.,N.C.多功能一体型)
With multifunctional output(NPN,PNP,NO,NC all in a single sensor)
- 浪涌，过载，短路，逆极性保护功能
Surge, overload and reverse polarity protection
- 外壳材料：PBT塑料或铜镀镍
Housing material : PBT Plastic or Nickel plated brass
- 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

选型/Selection:

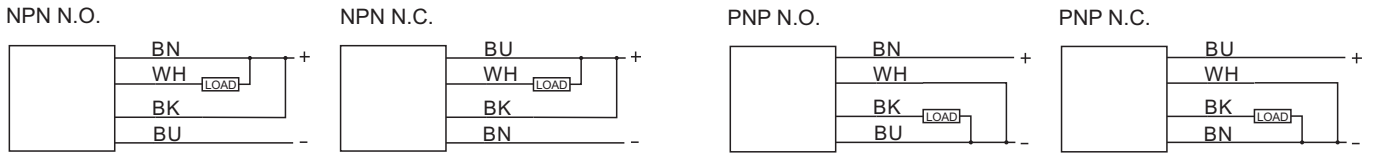
规格 Type	型号 Model	工作距离 Distance	输出功能 Output function	输出类型 Output type	开关频率 Switching frequency	光源 Emission	接线方式 Wiring	机械图 Dimensions
对射型 Through-beam 	发射器 Emitter	EM18TD015MEC2B	-	-	-	Infrared(880nm)	2M PVC Cable	1
	接收器 Receiver	EM18TD015MDK2B	15m	NPN or PNP	N.O. or N.C.	1KHZ	2M PVC Cable	1
对射型 Through-beam 	发射器 Emitter	EM18TD015MECEB	-	-	-	Infrared(880nm)	M12 Euro style	2
	接收器 Receiver	EM18TD015MDKEB	15m	NPN or PNP	N.O. or N.C.	1KHZ	M12 Euro style	2
漫反射型 Diffuse mode 	EM18DD0150DK2B	150mm	NPN or PNP	N.O. or N.C.	1KHZ	Infrared(880nm)	2M PVC Cable	1
	EM18DD0150DKEB	150mm	NPN or PNP	N.O. or N.C.	1KHZ	Infrared(880nm)	M12 Euro style	2
	EM18DD0500DK2B	500mm	NPN or PNP	N.O. or N.C.	1KHZ	Infrared(880nm)	2M PVC Cable	1
	EM18DD0500DKEB	500mm	NPN or PNP	N.O. or N.C.	1KHZ	Infrared(880nm)	M12 Euro style	2
镜面反射型 Retro-reflective mode 	EM18LD3000DK2B	3m	NPN or PNP	N.O. or N.C.	1KHZ	Infrared(880nm)	2M PVC Cable	1
	EM18LD3000DKEB	3m	NPN or PNP	N.O. or N.C.	1KHZ	Infrared(880nm)	M12 Euro style	2

技术参数/Specification:

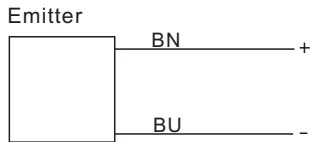
供电电压/Power supply	10...30VDC
纹波电压/Ripple	<10%
光源/Emission	Infrared(880nm)
输出形式/Output	PNP or NPN
输出特征/Output Characteristics	N.O. or N.C.
最大负载电流/Max. Load Current	≤200mA
无负载电流/No Load Current	30mA or Less
电压降/Voltage Drop(Sensor On)	<2.5V
响应时间/Response Time	≤1mS
短路保护/Short Circuit Protection	Yes
电气保护 /Electric Protections	Yes
工作温度 /Temperature Limits	-25 ~ +55℃
工作湿度 /Ambient humidity	35 to 85% RH
光源 /Light Immunity	>10.000Lux
防护等级 /Protection Degree	IP67
连接形式 /Connection Type	2M PVC Cable, M12 Euro style

电气接线图 Connection diagram

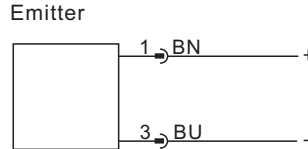
对射型接收器、镜面反式、漫反式接线图/Receiver & Retro-reflective & Diffuse mode



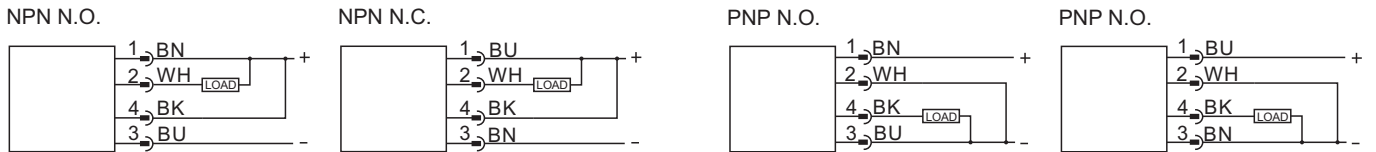
对射型发射器接线图/Emitter



对射型发射器接线图/Emitter



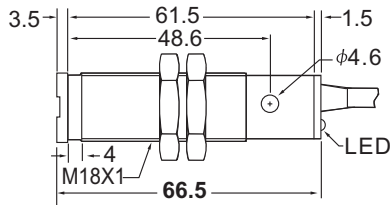
对射型接收器、镜面反式、漫反式接线图/Receiver & Retro-reflective & Diffuse mode



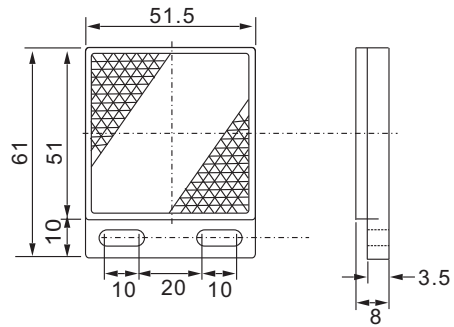
尺寸图 Dimension drawing(unit: mm)

附件 Accessories (unit:mm)

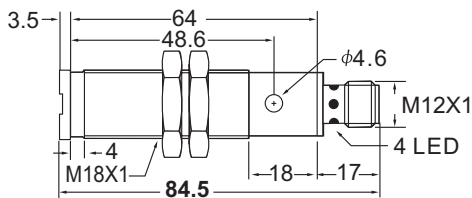
1



3 A51



2





特点描述/ Feature Description

- 采用专用 IC 制造，性能稳定
Performance more steady due to specialized IC
- M18 24-240VAC宽电压输入型
M18 Multi voltage 24...240VAC Photoelectric Sensors
- 浪涌，过载，短路，逆极性保护功能
Surge, overload and reverse polarity protection
- 外壳材料：PBT塑料或铜镀镍
Housing material : PBT Plastic or Nickel plated brass
- 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

选型/Selection:

规格 Type	型号 Model	工作距离 Distance	输出功能 Output function	输出类型 Output type	开关频率 Switching frequency	光源 Emission	接线方式 Wiring	机械图 Dimensions	
对射型 Through-beam 	发射器 Emitter	EM18TA015MEC2B	-	-	-	Infrared(880nm)	2M PVC Cable	1	
	接收器 Receiver	EM18TA015MHA2B	15m	MOSFET Output	Light on	100HZ	Infrared(880nm)	2M PVC Cable	1
		EM18TA015MHB2B	15m	MOSFET Output	Dark on	100HZ	Infrared(880nm)	2M PVC Cable	1
对射型 Through-beam 	发射器 Emitter	EM18TA015MECEB	-	-	-	Infrared(880nm)	M12 Euro style	2	
	接收器 Receiver	EM18TA015MHAEB	15m	MOSFET Output	Light on	100HZ	Infrared(880nm)	M12 Euro style	2
		EM18TA015MHBEB	15m	MOSFET Output	Dark on	100HZ	Infrared(880nm)	M12 Euro style	2
漫反射型 Diffuse mode 		EM18DA0150HA2B	150mm	MOSFET Output	Light on	100HZ	Infrared(880nm)	2M PVC Cable	1
		EM18DA0150HB2B	150mm	MOSFET Output	Dark on	100HZ	Infrared(880nm)	2M PVC Cable	1
		EM18DA0500HA2B	500mm	MOSFET Output	Light on	100HZ	Infrared(880nm)	2M PVC Cable	1
		EM18DA0500HB2B	500mm	MOSFET Output	Dark on	100HZ	Infrared(880nm)	2M PVC Cable	1
漫反射型 Diffuse mode 		EM18DA0150HAEB	150mm	MOSFET Output	Light on	100HZ	Infrared(880nm)	M12 Euro style	2
		EM18DA0150HBEB	150mm	MOSFET Output	Dark on	100HZ	Infrared(880nm)	M12 Euro style	2
		EM18DA0500HAEB	500mm	MOSFET Output	Light on	100HZ	Infrared(880nm)	M12 Euro style	2
		EM18DA0500HBEB	500mm	MOSFET Output	Dark on	100HZ	Infrared(880nm)	M12 Euro style	2
镜面反射型 Retro-reflective mode 		EM18LA3000HA2B	3m	MOSFET Output	Light on	100HZ	Infrared(880nm)	2M PVC Cable	1
		EM18LA3000HB2B	3m	MOSFET Output	Dark on	100HZ	Infrared(880nm)	2M PVC Cable	1
镜面反射型 Retro-reflective mode 		EM18LA3000HAEB	3m	MOSFET Output	Light on	100HZ	Infrared(880nm)	M12 Euro style	2
		EM18LA3000HBEB	3m	MOSFET Output	Dark on	100HZ	Infrared(880nm)	M12 Euro style	2

技术参数/Specification:

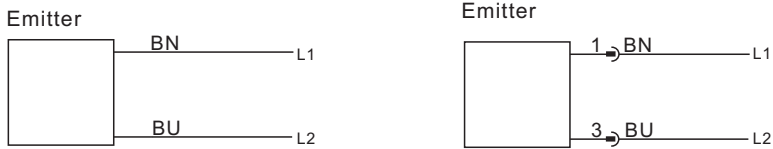
供电电压/Power supply	24...240VAC
纹波电压/Ripple	<10%
光源/Emission	Infrared(880nm)
输出形式/Output	AC non-contact(MOSFET Output)
输出特征/Output Characteristics	Light on or Dark on
最大负载电流/Max. Load Current	≤200mA
无负载电流/No Load Current	5mA or Less
电压降/Voltage Drop(Sensor On)	<2.5V
响应时间/Response Time	≤15mS
工作温度 /Temperature Limits	-25 ~ +55°C
工作温度 /Ambient humidity	35 to 85% RH
光源 /Light Immunity	>10.000Lux
防护等级 /Protection Degree	IP67
连接形式 /Connection Type	2M PVC Cable, M12 Euro style

电气接线图 Connection diagram

对射型接收器、镜面反式、漫反式接线图/Receiver & Retro-reflective & Diffuse mode



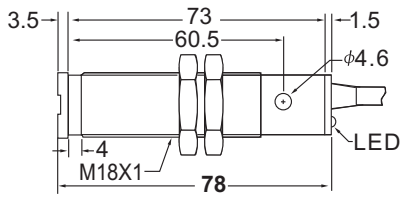
对射型发射器接线图/Emitter



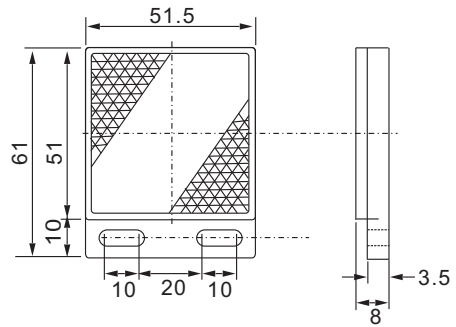
尺寸图 Dimension drawing(unit: mm)

附件 Accessories (unit:mm)

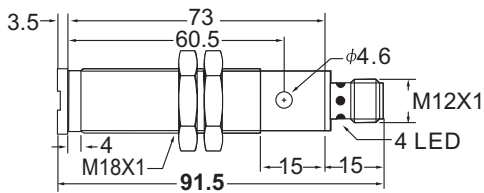
1



3 A51



2





特点描述/ Feature Description

- 采用专用 IC 制造，性能稳定
Performance more steady due to specialized IC
- 单负载可编程输出型
With Light On Or Dark On Programmable Output
- 浪涌，过载，短路，逆极性保护功能
Surge, overload and reverse polarity protection
- 外壳材料：PBT塑料或铜镀镍
Housing material : PBT Plastic or Nickel plated brass
- 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

选型/Selection:

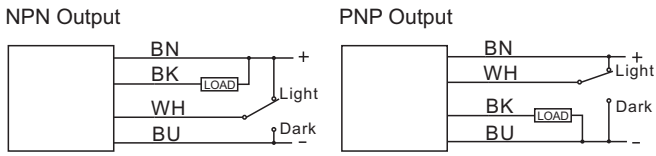
规格 Type	型号 Model	工作距离 Distance	输出功能 Output function	输出类型 Output type	开关频率 Switching frequency	光源 Emission	接线方式 Wiring	机械图 Dimensions	
对射型 Through-beam 	发射器 Emitter	EM30TD060MEC2B	-	-	-	Infrared(880nm)	2M PVC Cable	1	
	接收器 Receiver	EM30TD060MNK2B	60m	NPN	Light on or Dark on	1KHZ	Infrared(880nm)	2M PVC Cable	1
		EM30TD060MPK2B	60m	PNP	Light on or Dark on	1KHZ	Infrared(880nm)	2M PVC Cable	1
对射型 Through-beam 	发射器 Emitter	EM30TD060MECEB	-	-	-	Infrared(880nm)	M12 Euro style	2	
	接收器 Receiver	EM30TD060MNKEB	60m	NPN	Light on or Dark on	1KHZ	Infrared(880nm)	M12 Euro style	2
		EM30TD060MPKEB	60m	PNP	Light on or Dark on	1KHZ	Infrared(880nm)	M12 Euro style	2
对射型 Through-beam 	发射器 Emitter	EM30TD100MEC2B	-	-	-	Infrared(880nm)	2M PVC Cable	1	
	接收器 Receiver	EM30TD100MNK2B	100m	NPN	Light on or Dark on	1KHZ	Infrared(880nm)	2M PVC Cable	1
		EM30TD100MPK2B	100m	PNP	Light on or Dark on	1KHZ	Infrared(880nm)	2M PVC Cable	1
对射型 Through-beam 	发射器 Emitter	EM30TD100MECEB	-	-	-	Infrared(880nm)	M12 Euro style	2	
	接收器 Receiver	EM30TD100MNKEB	100m	NPN	Light on or Dark on	1KHZ	Infrared(880nm)	M12 Euro style	2
		EM30TD100MPKEB	100m	PNP	Light on or Dark on	1KHZ	Infrared(880nm)	M12 Euro style	2
对射型 Through-beam 	发射器 Emitter	EM30TD200MEC2B	-	-	-	Infrared(880nm)	2M PVC Cable	1	
	接收器 Receiver	EM30TD200MNK2B	200m	NPN	Light on or Dark on	1KHZ	Infrared(880nm)	2M PVC Cable	1
		EM30TD200MPK2B	200m	PNP	Light on or Dark on	1KHZ	Infrared(880nm)	2M PVC Cable	1
对射型 Through-beam 	发射器 Emitter	EM30TD200MECEB	-	-	-	Infrared(880nm)	M12 Euro style	2	
	接收器 Receiver	EM30TD200MNKEB	200m	NPN	Light on or Dark on	1KHZ	Infrared(880nm)	M12 Euro style	2
		EM30TD200MPKEB	200m	PNP	Light on or Dark on	1KHZ	Infrared(880nm)	M12 Euro style	2

技术参数/Specification:

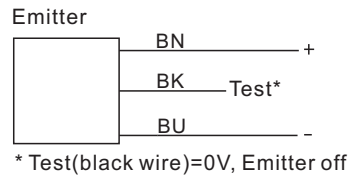
供电电压/Power supply	10...30VDC
纹波电压/Ripple	<10%
光源/Emission	Infrared(880nm)
输出形式/Output	PNP/NPN
输出特征/Output Characteristics	亮通/暗通(Light on or Dark on)
最大负载电流/Max. Load Current	≤200mA
无负载电流/No Load Current	30mA or Less
电压降/Voltage Drop(Sensor On)	<2.5V
响应时间/Response Time	≤1mS
短路保护/Short Circuit Protection	Yes
电气保护 /Electric Protections	Yes
工作温度 /Temperature Limits	-25 ~ +55℃
工作湿度 /Ambient humidity	35 to 85% RH
光源 /Light Immunity	>10.000Lux
防护等级 /Protection Degree	IP67
连接形式 /Connection Type	2M PVC Cable, M12 Euro style

电气接线图 Connection diagram

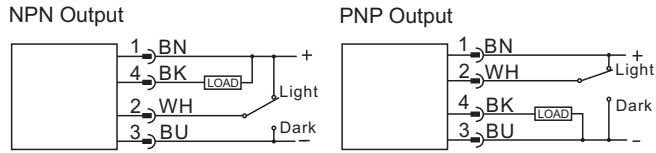
对射型接收器接线图/Receiver output



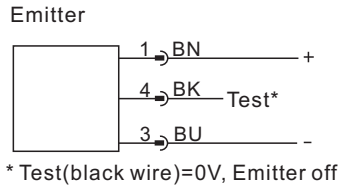
对射型发射器接线图/Emitter



对射型接收器接线图/Receiver output



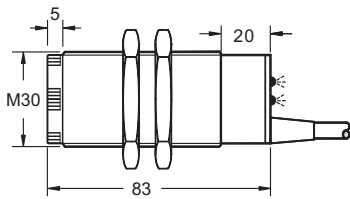
对射型发射器接线图/Emitter output



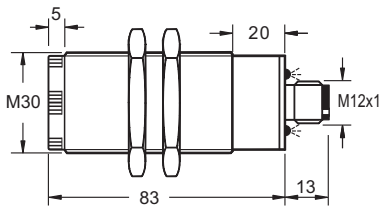
尺寸图 Dimension drawing(unit: mm)

附件 Accessories (unit:mm)

1



2





特点描述/ Feature Description

- 采用专用 IC 制造，性能稳定
Performance more steady due to specialized IC
- 两负载可编程输出型
With N.O.+N.C. Programmable Output
- 浪涌，过载，短路，逆极性保护功能
Surge, overload and reverse polarity protection
- 外壳材料：PBT塑料或铜镀镍
Housing material : PBT Plastic or Nickel plated brass
- 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

选型/Selection:

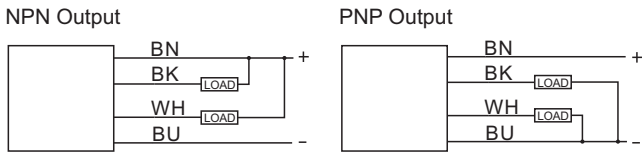
规格 Type	型号 Model	工作距离 Distance	输出功能 Output function	输出类型 Output type	开关频率 Switching frequency	光源 Emission	接线方式 Wiring	机械图 Dimensions	
对射型 Through-beam 	发射器 Emitter	EM30TD060MEC2B	-	-	-	Infrared(880nm)	2M PVC Cable	1	
	接收器 Receiver	EM30TD060MNS2B	60m	NPN	N.O. + N.C.	1KHZ	Infrared(880nm)	2M PVC Cable	1
		EM30TD060MPS2B	60m	PNP	N.O. + N.C.	1KHZ	Infrared(880nm)	2M PVC Cable	1
对射型 Through-beam 	发射器 Emitter	EM30TD060MECEB	-	-	-	Infrared(880nm)	M12 Euro style	2	
	接收器 Receiver	EM30TD060MNSEB	60m	NPN	N.O. + N.C.	1KHZ	Infrared(880nm)	M12 Euro style	2
		EM30TD060MPSEB	60m	PNP	N.O. + N.C.	1KHZ	Infrared(880nm)	M12 Euro style	2
对射型 Through-beam 	发射器 Emitter	EM30TD100MEC2B	-	-	-	Infrared(880nm)	2M PVC Cable	1	
	接收器 Receiver	EM30TD100MNS2B	100m	NPN	N.O. + N.C.	1KHZ	Infrared(880nm)	2M PVC Cable	1
		EM30TD100MPS2B	100m	PNP	N.O. + N.C.	1KHZ	Infrared(880nm)	2M PVC Cable	1
对射型 Through-beam 	发射器 Emitter	EM30TD100MECEB	-	-	-	Infrared(880nm)	M12 Euro style	2	
	接收器 Receiver	EM30TD100MNSEB	100m	NPN	N.O. + N.C.	1KHZ	Infrared(880nm)	M12 Euro style	2
		EM30TD100MPSEB	100m	PNP	N.O. + N.C.	1KHZ	Infrared(880nm)	M12 Euro style	2
对射型 Through-beam 	发射器 Emitter	EM30TD200MEC2B	-	-	-	Infrared(880nm)	2M PVC Cable	1	
	接收器 Receiver	EM30TD200MNS2B	200m	NPN	N.O. + N.C.	1KHZ	Infrared(880nm)	2M PVC Cable	1
		EM30TD200MPS2B	200m	PNP	N.O. + N.C.	1KHZ	Infrared(880nm)	2M PVC Cable	1
对射型 Through-beam 	发射器 Emitter	EM30TD200MECEB	-	-	-	Infrared(880nm)	M12 Euro style	2	
	接收器 Receiver	EM30TD200MNSEB	200m	NPN	N.O. + N.C.	1KHZ	Infrared(880nm)	M12 Euro style	2
		EM30TD200MPSEB	200m	PNP	N.O. + N.C.	1KHZ	Infrared(880nm)	M12 Euro style	2

技术参数/Specification:

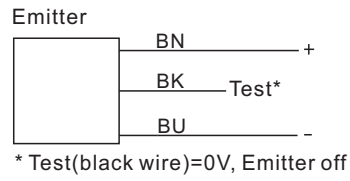
供电电压/Power supply	10...30VDC
纹波电压/Ripple	<10%
光源/Emission	Infrared(880nm)
输出形式/Output	PNP or NPN
输出特征/Output Characteristics	N.O. + N.C.
最大负载电流/Max. Load Current	≤200mA
无负载电流/No Load Current	30mA or Less
电压降/Voltage Drop(Sensor On)	<2.5V
响应时间/Response Time	≤1mS
短路保护/Short Circuit Protection	Yes
电气保护 /Electric Protections	Yes
工作温度 /Temperature Limits	-25 ~ +55℃
工作湿度 /Ambient humidity	35 to 85% RH
光源 /Light Immunity	>10.000Lux
防护等级 /Protection Degree	IP67
连接形式 /Connection Type	2M PVC Cable, M12 Euro style

电气接线图 Connection diagram

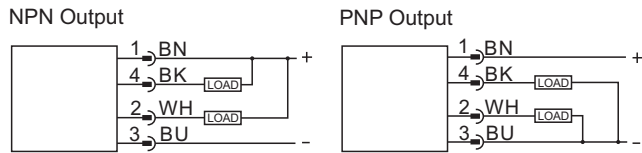
对射型接收器接线图/Receiver output



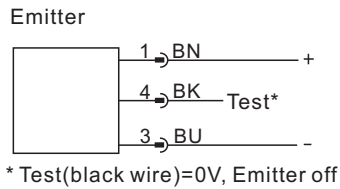
对射型发射器接线图/Emitter



对射型接收器接线图/Receiver output



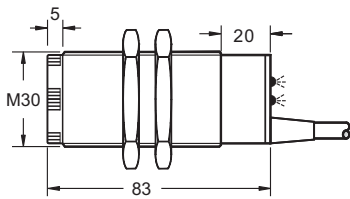
对射型发射器接线图/Emitter output



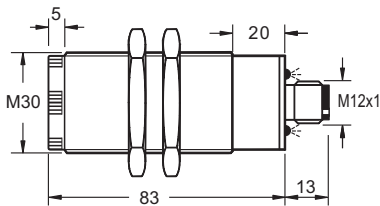
尺寸图 Dimension drawing(unit: mm)

附件 Accessories (unit:mm)

1



2





特点描述/ Feature Description

- 采用专用 IC 制造，性能稳定
Performance more steady due to specialized IC
- 多功能可编程输出型(NPN,PNP,N.O.,N.C.多功能一体型)
With multifunctional output(NPN,PNP,NO,NC all in a single sensor)
- 浪涌，过载，短路，逆极性保护功能
Surge, overload and reverse polarity protection
- 外壳材料：PBT塑料或铜镀镍
Housing material : PBT Plastic or Nickel plated brass
- 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

选型/Selection:

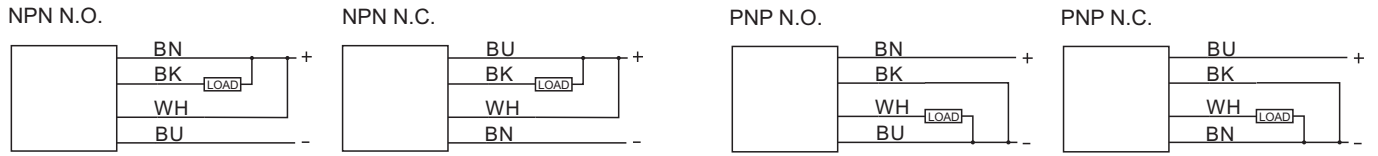
规格 Type	型号 Model	工作距离 Distance	输出功能 Output function	输出类型 Output type	开关频率 Switching frequency	光源 Emission	接线方式 Wiring	机械图 Dimensions
对射型 Through-beam 	发射器 Emitter	EM30TD060MEC2B	-	-	-	Infrared(880nm)	2M PVC Cable	1
	接收器 Receiver	EM30TD060MDK2B	60m	NPN or PNP	N.O. or N.C.	1KHZ	2M PVC Cable	1
对射型 Through-beam 	发射器 Emitter	EM30TD060MECEB	-	-	-	Infrared(880nm)	M12 Euro style	2
	接收器 Receiver	EM30TD060MDKEB	60m	NPN or PNP	N.O. or N.C.	1KHZ	M12 Euro style	2
对射型 Through-beam 	发射器 Emitter	EM30TD100MEC2B	-	-	-	Infrared(880nm)	2M PVC Cable	1
	接收器 Receiver	EM30TD100MDK2B	100m	NPN or PNP	N.O. or N.C.	1KHZ	2M PVC Cable	1
对射型 Through-beam 	发射器 Emitter	EM30TD100MECEB	-	-	-	Infrared(880nm)	M12 Euro style	2
	接收器 Receiver	EM30TD100MDKEB	100m	NPN or PNP	N.O. or N.C.	1KHZ	M12 Euro style	2
对射型 Through-beam 	发射器 Emitter	EM30TD200MEC2B	-	-	-	Infrared(880nm)	2M PVC Cable	1
	接收器 Receiver	EM30TD200MDK2B	200m	NPN or PNP	N.O. or N.C.	1KHZ	2M PVC Cable	1
对射型 Through-beam 	发射器 Emitter	EM30TD200MECEB	-	-	-	Infrared(880nm)	M12 Euro style	2
	接收器 Receiver	EM30TD200MDKEB	200m	NPN or PNP	N.O. or N.C.	1KHZ	M12 Euro style	2

技术参数/Specification:

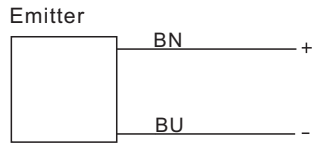
供电电压/Power supply	10...30VDC
纹波电压/Ripple	<10%
光源/Emission	Infrared(880nm)
输出形式/Output	PNP or NPN
输出特征/Output Characteristics	N.O. or N.C.
最大负载电流/Max. Load Current	≤200mA
无负载电流/No Load Current	30mA or Less
电压降/Voltage Drop(Sensor On)	<2.5V
响应时间/Response Time	≤1mS
短路保护/Short Circuit Protection	Yes
电气保护 /Electric Protections	Yes
工作温度 /Temperature Limits	-25 ~ +55℃
工作温度 /Ambient humidity	35 to 85% RH
光源 /Light Immunity	>10.000Lux
防护等级 /Protection Degree	IP67
连接形式 /Connection Type	2M PVC Cable, M12 Euro style

电气接线图 Connection diagram

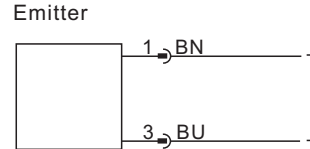
对射型接收器、镜面反式、漫反式接线图/Receiver & Retro-reflective & Diffuse mode



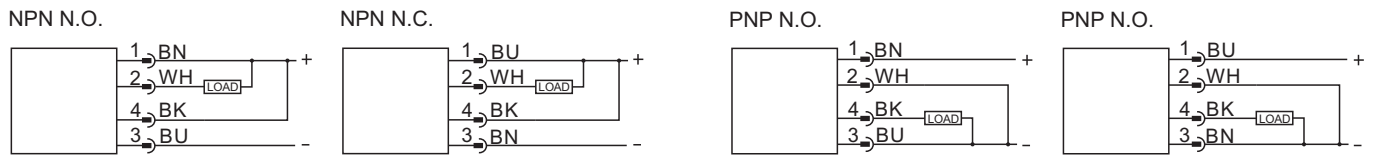
对射型发射器接线图/Emitter



对射型发射器接线图/Emitter



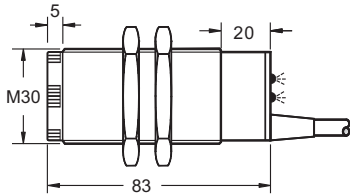
对射型接收器/Receiver



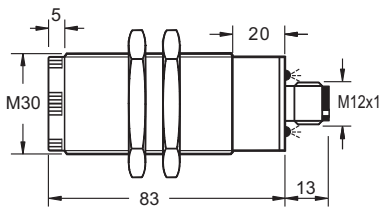
尺寸图 Dimension drawing(unit: mm)

附件 Accessories (unit:mm)

1



2





特点描述/ Feature Description

- 采用专用 IC 制造，性能稳定
Performance more steady due to specialized IC
- M30 24-240VAC宽电压输入型
M30 Multi voltage 24...240VAC Photoelectric Sensors
- 外壳材料：PBT塑料或铜镀镍
Housing material : PBT Plastic or Nickel plated brass
- 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

选型/Selection:

规格 Type	型号 Model	工作距离 Distance	输出功能 Output function	输出类型 Output type	开关频率 Switching frequency	光源 Emission	接线方式 Wiring	机械图 Dimensions	
对射型 Through-beam 	发射器 Emitter	EM30TA060MEC2B	-	-	-	Infrared(880nm)	2M PVC Cable	1	
	接收器 Receiver	EM30TA060MHA2B	60m	MOSFET Output	Light on	100HZ	Infrared(880nm)	2M PVC Cable	1
	接收器 Receiver	EM30TA060MHB2B	60m	MOSFET Output	Dark on	100HZ	Infrared(880nm)	2M PVC Cable	1
对射型 Through-beam 	发射器 Emitter	EM30TA060MECEB	-	-	-	Infrared(880nm)	M12 Euro style	2	
	接收器 Receiver	EM30TA060MHAEB	60m	MOSFET Output	Light on	100HZ	Infrared(880nm)	M12 Euro style	2
	接收器 Receiver	EM30TA060MHBEB	60m	MOSFET Output	Dark on	100HZ	Infrared(880nm)	M12 Euro style	2
对射型 Through-beam 	发射器 Emitter	EM30TA100MEC2B	-	-	-	Infrared(880nm)	2M PVC Cable	1	
	接收器 Receiver	EM30TA100MHA2B	100m	MOSFET Output	Light on	100HZ	Infrared(880nm)	2M PVC Cable	1
	接收器 Receiver	EM30TA100MHB2B	100m	MOSFET Output	Dark on	100HZ	Infrared(880nm)	2M PVC Cable	1
对射型 Through-beam 	发射器 Emitter	EM30TA100MECEB	-	-	-	Infrared(880nm)	M12 Euro style	2	
	接收器 Receiver	EM30TA100MHAEB	100m	MOSFET Output	Light on	100HZ	Infrared(880nm)	M12 Euro style	2
	接收器 Receiver	EM30TA100MHBEB	100m	MOSFET Output	Dark on	100HZ	Infrared(880nm)	M12 Euro style	2
对射型 Through-beam 	发射器 Emitter	EM30TA200MEC2B	-	-	-	Infrared(880nm)	2M PVC Cable	1	
	接收器 Receiver	EM30TA200MHA2B	200m	MOSFET Output	Light on	100HZ	Infrared(880nm)	2M PVC Cable	1
	接收器 Receiver	EM30TA200MHB2B	200m	MOSFET Output	Dark on	100HZ	Infrared(880nm)	2M PVC Cable	1
对射型 Through-beam 	发射器 Emitter	EM30TA200MECEB	-	-	-	Infrared(880nm)	M12 Euro style	2	
	接收器 Receiver	EM30TA200MHAEB	200m	MOSFET Output	Light on	100HZ	Infrared(880nm)	M12 Euro style	2
	接收器 Receiver	EM30TA200MHBEB	200m	MOSFET Output	Dark on	100HZ	Infrared(880nm)	M12 Euro style	2

技术参数/Specification:

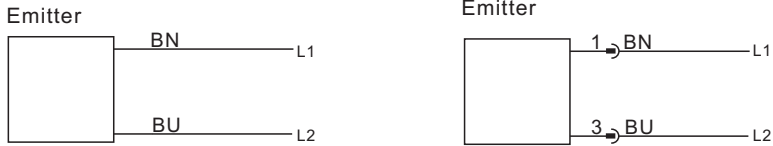
供电电压/Power supply	24...240VAC
纹波电压/Ripple	<10%
光源/Emission	Infrared(880nm)
输出形式/Output	AC non-contact(MOSFET Output)
输出特征/Output Characteristics	Light on or Dark on
最大负载电流/Max. Load Current	≤200mA
无负载电流/No Load Current	5mA or Less
电压降/Voltage Drop(Sensor On)	<2.5V
响应时间/Response Time	≤15mS
工作温度 /Temperature Limits	-25 ~ +55℃
工作湿度 /Ambient humidity	35 to 85% RH
光源 /Light Immunity	>10.000Lux
防护等级 /Protection Degree	IP67
连接形式 /Connection Type	2M PVC Cable, M12 Euro style

电气接线图 Connection diagram

对射型接收器、镜面反式、漫反式接线图/Receiver & Retro-reflective & Diffuse mode



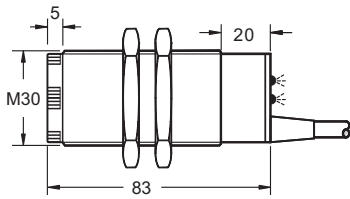
对射型发射器接线图/Emitter



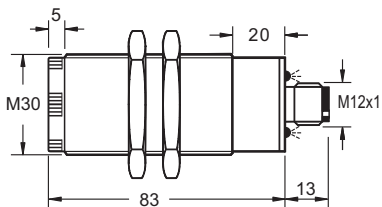
尺寸图 Dimension drawing(unit: mm)

附件 Accessories (unit:mm)

1



2





特点描述/ Feature Description

- 采用专用 IC 制造，性能稳定
Performance more steady due to specialized IC
- M30 DC 24V 继电器输出型
M30 DC 24V relay SPDT output
- 外壳材料：PBT塑料或铜镀镍
Housing material : PBT Plastic or Nickel plated brass
- 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

选型/Selection:

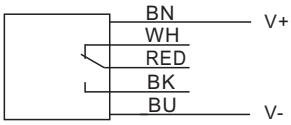
规格 Type	型号 Model	工作距离 Distance	输出功能 Output function	输出类型 Output type	开关频率 Switching frequency	光源 Emission	接线方式 Wiring	机械图 Dimensions
对射型 Through-beam 	发射器 Emitter	EM30TD060MEC2B	-	-	-	Infrared(880nm)	2M PVC Cable	1
	接收器 Receiver	EM30TD060MVR2B	60m	MOSFET Output	Light on	25HZ	Infrared(880nm)	2M PVC Cable
对射型 Through-beam 	发射器 Emitter	EM30TD060MECEB	-	-	-	Infrared(880nm)	M12 Euro style	2
	接收器 Receiver	EM30TD060MVR2B	60m	MOSFET Output	Light on	25HZ	Infrared(880nm)	M12 Euro style
对射型 Through-beam 	发射器 Emitter	EM30TD100MEC2B	-	-	-	Infrared(880nm)	2M PVC Cable	1
	接收器 Receiver	EM30TD100MVR2B	100m	MOSFET Output	Light on	25HZ	Infrared(880nm)	2M PVC Cable
对射型 Through-beam 	发射器 Emitter	EM30TD100MECEB	-	-	-	Infrared(880nm)	M12 Euro style	2
	接收器 Receiver	EM30TD100MVR2B	100m	MOSFET Output	Light on	25HZ	Infrared(880nm)	M12 Euro style
对射型 Through-beam 	发射器 Emitter	EM30TD200MEC2B	-	-	-	Infrared(880nm)	2M PVC Cable	1
	接收器 Receiver	EM30TD200MVR2B	200m	MOSFET Output	Light on	25HZ	Infrared(880nm)	2M PVC Cable
对射型 Through-beam 	发射器 Emitter	EM30TD200MECEB	-	-	-	Infrared(880nm)	M12 Euro style	2
	接收器 Receiver	EM30TD200MVR2B	200m	MOSFET Output	Light on	25HZ	Infrared(880nm)	M12 Euro style

技术参数/Specification:

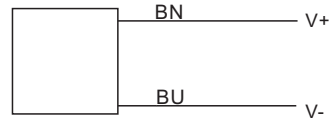
供电电压/Power supply	24VDC
纹波电压/Ripple	<10%
光源/Emission	Infrared(880nm)
输出形式/Output	Relay SPDT
输出特征/Output Characteristics	3A/30VAC,1A/220VAC
最大负载电流/Max. Load Current	≤5A
无负载电流/No Load Current	40mA or Less
电压降/Voltage Drop(Sensor On)	-
响应时间/Response Time	≤20mS
工作温度 /Temperature Limits	-25 ~ +55℃
工作湿度 /Ambient humidity	35 to 85% RH
光源 /Light Immunity	>10.000Lux
防护等级 /Protection Degree	IP67
连接形式 /Connection Type	2M PVC Cable, M12 Euro style

电气接线图 Connection diagram

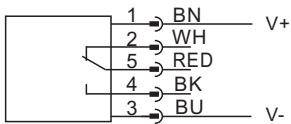
对射型接收器/Receiver



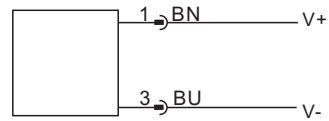
对射型发射器接线图/Emitter



对射型接收器/Receiver



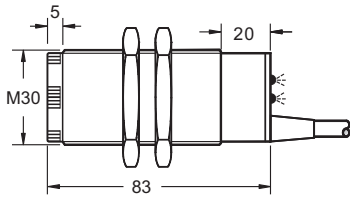
对射型发射器接线图/Emitter



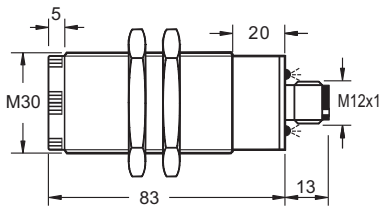
尺寸图 Dimension drawing(unit: mm)

附件 Accessories (unit:mm)

1



2



EQ31系列



特点描述/ Feature Description

- 采用专用 IC 制造，性能稳定
Performance more steady due to specialized IC
- 超小外观适用于狭小安装空间
Small volume for narrowness space
- 浪涌，过载，短路，逆极性保护功能
Surge, overload and reverse polarity protection
- 外壳材料：ABS塑料
Housing material : ABS Plastic
- 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

选型/Selection:

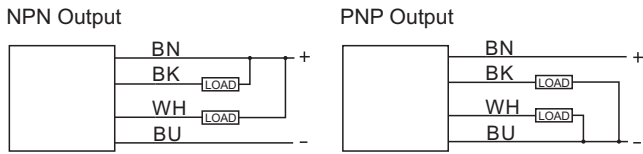
规格 Type	型号 Model	工作距离 Distance	输出功能 Output function	输出类型 Output type	开关频率 Switching frequency	光源 Emission	接线方式 Wiring	机械图 Dimensions	
对射型 Through-beam 	发射器 Emitter	EQ31TD010MEC2P	-	-	-	Infrared(880nm)	2M PVC Cable	1	
	接收器 Receiver	EQ31TD010MNS2P	10m	NPN	N.O. + N.C.	500HZ	Infrared(880nm)	2M PVC Cable	1
		EQ31TD010MPS2P	10m	PNP	N.O. + N.C.	500HZ	Infrared(880nm)	2M PVC Cable	1
对射型 Through-beam 	发射器 Emitter	EQ31TD010MECPP	-	-	-	Infrared(880nm)	M8 Pico style	2	
	接收器 Receiver	EQ31TD010MNSPP	10m	NPN	N.O. + N.C.	500HZ	Infrared(880nm)	M8 Pico style	2
		EQ31TD010MPSPP	10m	PNP	N.O. + N.C.	500HZ	Infrared(880nm)	M8 Pico style	2
漫反射型 Diffuse mode 	EQ31DD0110NS2P	110mm	NPN	N.O. + N.C.	500HZ	Infrared(880nm)	2M PVC Cable	1	
	EQ31DD0110PS2P	110mm	PNP	N.O. + N.C.	500HZ	Infrared(880nm)	2M PVC Cable	1	
	EQ31DD0350NS2P	350mm	NPN	N.O. + N.C.	500HZ	Infrared(880nm)	2M PVC Cable	1	
	EQ31DD0350PS2P	350mm	PNP	N.O. + N.C.	500HZ	Infrared(880nm)	2M PVC Cable	1	
	EQ31DD0800NS2P	800mm	NPN	N.O. + N.C.	500HZ	Infrared(880nm)	2M PVC Cable	1	
	EQ31DD0800PS2P	800mm	PNP	N.O. + N.C.	500HZ	Infrared(880nm)	2M PVC Cable	1	
漫反射型 Diffuse mode 	EQ31DD0110NSPP	110mm	NPN	N.O. + N.C.	500HZ	Infrared(880nm)	M8 Pico style	2	
	EQ31DD0110PSPP	110mm	PNP	N.O. + N.C.	500HZ	Infrared(880nm)	M8 Pico style	2	
	EQ31DD0350NSPP	350mm	NPN	N.O. + N.C.	500HZ	Infrared(880nm)	M8 Pico style	2	
	EQ31DD0350PSPP	350mm	PNP	N.O. + N.C.	500HZ	Infrared(880nm)	M8 Pico style	2	
	EQ31DD0800NSPP	800mm	NPN	N.O. + N.C.	500HZ	Infrared(880nm)	M8 Pico style	2	
	EQ31DD0800PSPP	800mm	PNP	N.O. + N.C.	500HZ	Infrared(880nm)	M8 Pico style	2	
镜面反射型 Retro-reflective mode 	EQ31LD4000NS2P	4m	NPN	N.O. + N.C.	500HZ	Infrared(880nm)	2M PVC Cable	1	
	EQ31LD4000PS2P	4m	PNP	N.O. + N.C.	500HZ	Infrared(880nm)	2M PVC Cable	1	
镜面反射型 Retro-reflective mode 	EQ31LD4000NSPP	4m	NPN	N.O. + N.C.	500HZ	Infrared(880nm)	M8 Pico style	2	
	EQ31LD4000PSPP	4m	PNP	N.O. + N.C.	500HZ	Infrared(880nm)	M8 Pico style	2	

技术参数/Specification:

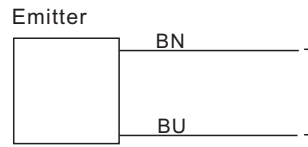
供电电压/Power supply	10...30VDC
纹波电压/Ripple	<10%
光源/Emission	Infrared(880nm)
输出形式/Output	PNP or NPN
输出特征/Output Characteristics	N.O. + N.C.
最大负载电流/Max. Load Current	100mA
无负载电流/No Load Current	35mA
电压降/Voltage Drop(Sensor On)	<2.0V
响应时间/Response Time	1mS
短路保护/Short Circuit Protection	Yes
电气保护/Electric Protections	Yes
工作温度 /Temperature Limits	-25 ~ +55℃
工作湿度 /Ambient humidity	35 to 85% RH
光源 /Light Immunity	>10.000Lux
防护等级 /Protection Degree	IP67
连接形式 /Connection Type	2M PVC Cable, M8 Pico style

电气接线图 Connection diagram

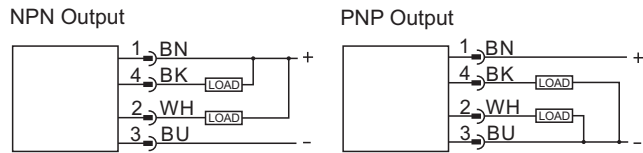
对射型接收器接线图/Receiver output



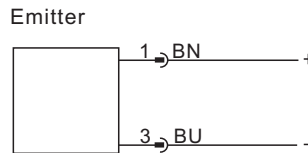
对射型发射器接线图/Emitter



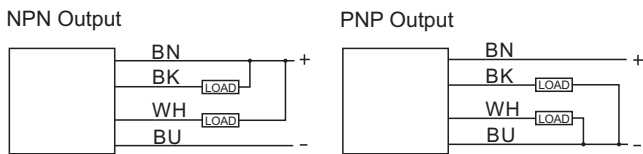
对射型接收器接线图/Receiver output



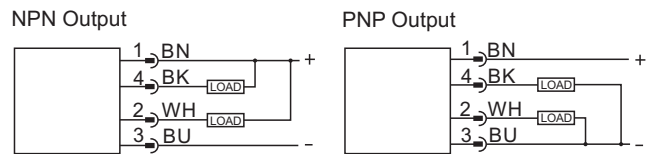
对射型发射器接线图/Emitter output



镜面、漫反式接线图/Retro-reflective & Diffuse mode

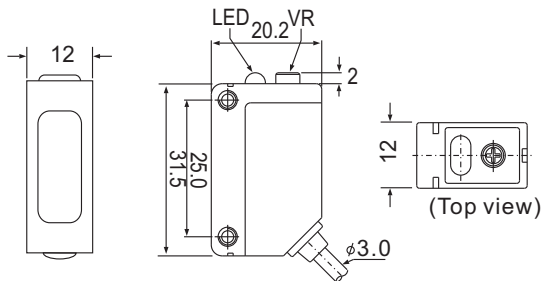


镜面、漫反式接线图/Retro-reflective & Diffuse mode



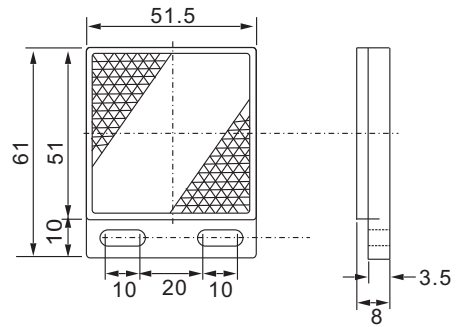
尺寸图 Dimension drawing(unit: mm)

1

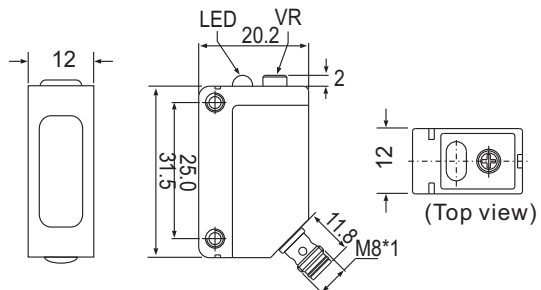


附件 Accessories (unit:mm)

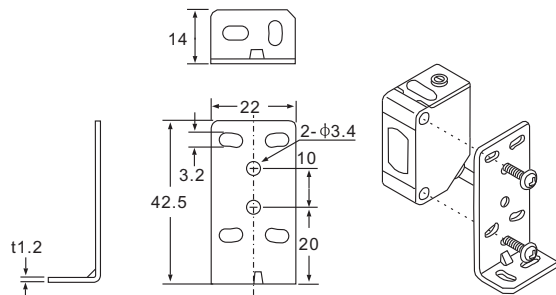
3 A51

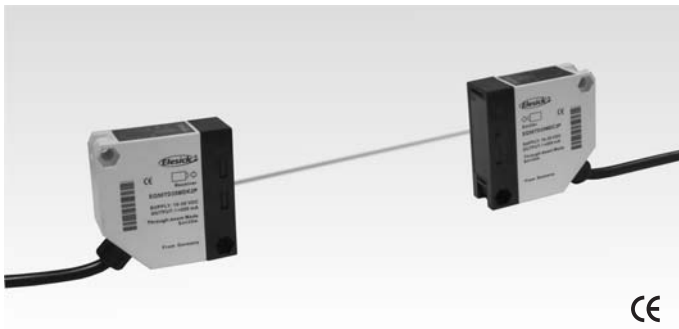


2



4 Brackets





特点描述/ Feature Description

- 采用专用 IC 制造，性能稳定
Performance more steady due to specialized IC
- 浪涌，过载，短路，逆极性保护功能
Surge, overload and reverse polarity protection
- 外壳材料：ABS 塑料
Housing material : ABS Plastic
- 防护等级 IP67 (IEC)
Protection degree : IP67 (IEC)

选型/Selection:

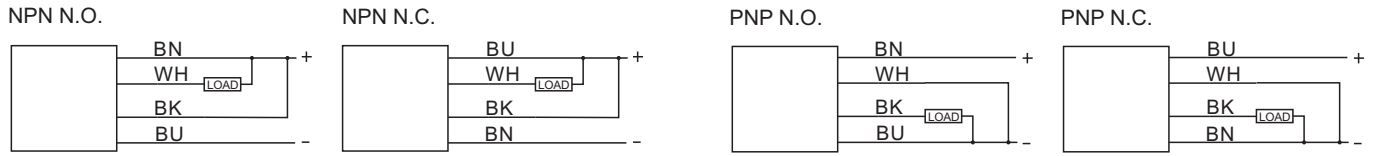
规格 Type	型号 Model	工作距离 Distance	输出功能 Output function	输出类型 Output type	开关频率 Switching frequency	光源 Emission	接线方式 Wiring	机械图 Dimensions	
对射型 Through-beam 	发射器 Emitter 接收器 Receiver	EQ50TD035MEC2P EQ50TD035MDK2P	35m 35m	- NPN or PNP	- N.O. or N.C.	- 500HZ	Infrared(880nm) Infrared(880nm)	2M PVC Cable 2M PVC Cable	1 1
	发射器 Emitter 接收器 Receiver	EQ50TD060MEC2P EQ50TD060MDK2P	60m 60m	- NPN or PNP	- N.O. or N.C.	- 500HZ	Infrared(880nm) Infrared(880nm)	2M PVC Cable 2M PVC Cable	1 1
对射型 Through-beam 	发射器 Emitter 接收器 Receiver	EQ50TD035MECEP EQ50TD035MDKEP	35m 35m	- NPN or PNP	- N.O. or N.C.	- 500HZ	Infrared(880nm) Infrared(880nm)	M12 Euro style M12 Euro style	2 2
	发射器 Emitter 接收器 Receiver	EQ50TD060MECEP EQ50TD060MDKEP	60m 60m	- NPN or PNP	- N.O. or N.C.	- 500HZ	Infrared(880nm) Infrared(880nm)	M12 Euro style M12 Euro style	2 2
漫反射型 Diffuse mode 		EQ50DD0400DK2P	400mm	NPN or PNP	N.O. or N.C.	500HZ	Infrared(880nm)	2M PVC Cable	1
		EQ50DD1000DK2P	1m	NPN or PNP	N.O. or N.C.	500HZ	Infrared(880nm)	2M PVC Cable	1
		EQ50DD1800DK2P	1.8m	NPN or PNP	N.O. or N.C.	500HZ	Infrared(880nm)	2M PVC Cable	1
		EQ50DD2000DK2P	2m	NPN or PNP	N.O. or N.C.	500HZ	Infrared(880nm)	2M PVC Cable	1
漫反射型 Diffuse mode 		EQ50DD0400DKEP	400mm	NPN or PNP	N.O. or N.C.	500HZ	Infrared(880nm)	M12 Euro style	2
		EQ50DD1000DKEP	1m	NPN or PNP	N.O. or N.C.	500HZ	Infrared(880nm)	M12 Euro style	2
		EQ50DD1800DKEP	1.8m	NPN or PNP	N.O. or N.C.	500HZ	Infrared(880nm)	M12 Euro style	2
		EQ50DD2000DKEP	2m	NPN or PNP	N.O. or N.C.	500HZ	Infrared(880nm)	M12 Euro style	2
镜面反射型 Retro-reflective mode 		EQ50LD010MDK2P	10m	NPN or PNP	N.O. or N.C.	500HZ	Infrared(880nm)	2M PVC Cable	1
		EQ50LD010MDKEP	10m	NPN or PNP	N.O. or N.C.	500HZ	Infrared(880nm)	M12 Euro style	2
镜面反射型加滤光片 Retro-reflective mode with polarizing filters 		EQ50LD6000DK2FP	6m	NPN or PNP	N.O. or N.C.	500HZ	Red(660nm)	2M PVC Cable	1
		EQ50LD6000DKEFP	6m	NPN or PNP	N.O. or N.C.	500HZ	Red(660nm)	M12 Euro style	2

技术参数/Specification:

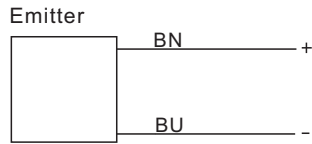
供电电压/Power supply	10...30VDC
纹波电压/Ripple	<10%
光源/Emission	Infrared(880nm) or red(660nm)
输出形式/Output	PNP or NPN
输出特征/Output Characteristics	N.O. or N.C.
最大负载电流/Max. Load Current	200mA
无负载电流/No Load Current	40mA
电压降/Voltage Drop(Sensor On)	<2.0V(i=100mA)
响应时间/Response Time	5mS
短路保护/Short Circuit Protection	Yes
电气保护 /Electric Protections	Yes
工作温度 /Temperature Limits	-10 ~ +60℃
工作湿度 /Ambient humidity	35 to 85% RH
光源 /Light Immunity	>10.000Lux
防护等级 /Protection Degree	IP67
连接形式 /Connection Type	2M PVC Cable, M12 Euro style

电气接线图 Connection diagram

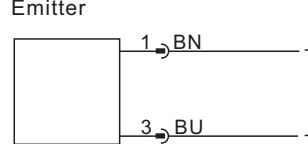
对射型接收器、镜面反式、漫反式接线图/Receiver & Retro-reflective & Diffuse mode



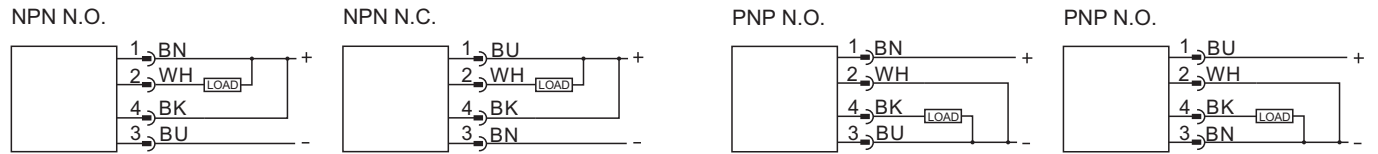
对射型发射器接线图/Emitter



对射型发射器接线图/Emitter



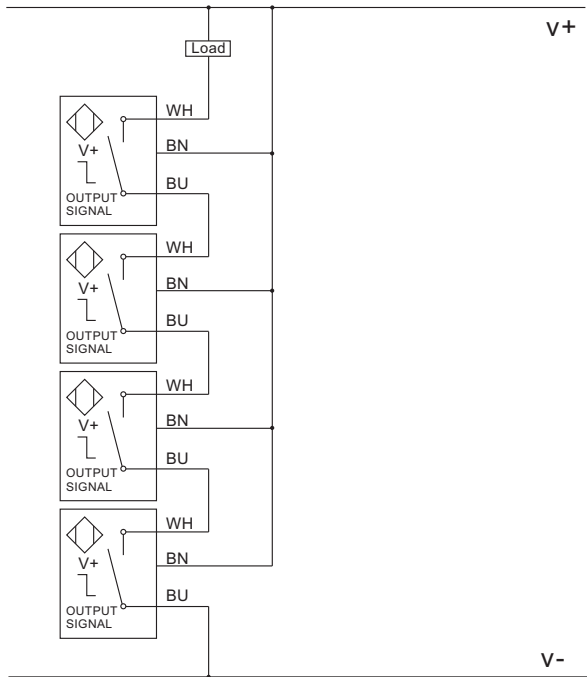
对射型接收器、镜面反式、漫反式接线图/Receiver & Retro-reflective & Diffuse mode



组合使用接线图/Combined use of wiring diagram

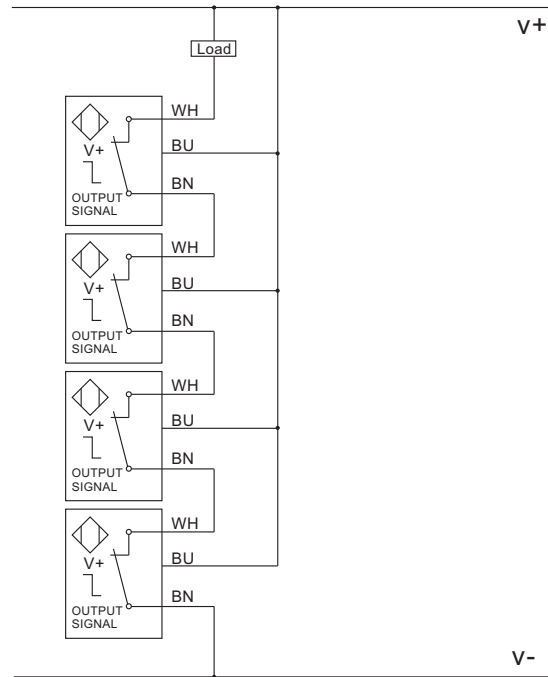
NPN 常开输出型串联使用

NPN N.O. SERIES WIRING "AND" FUNCTION

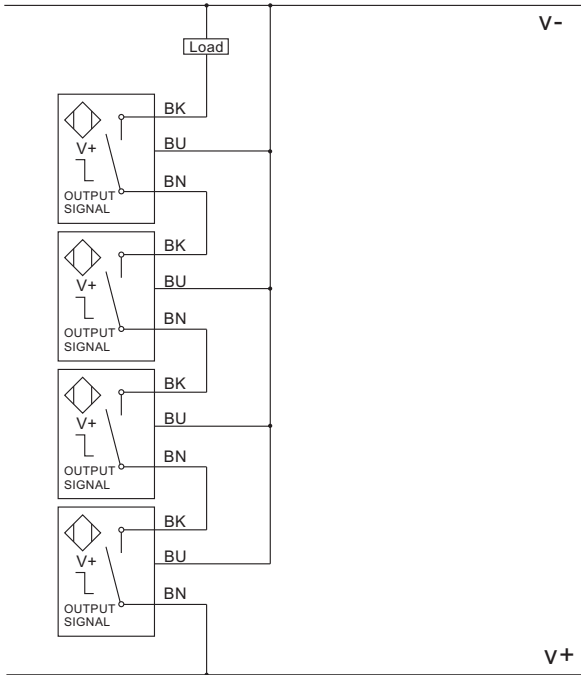


NPN 常闭输出型串联使用

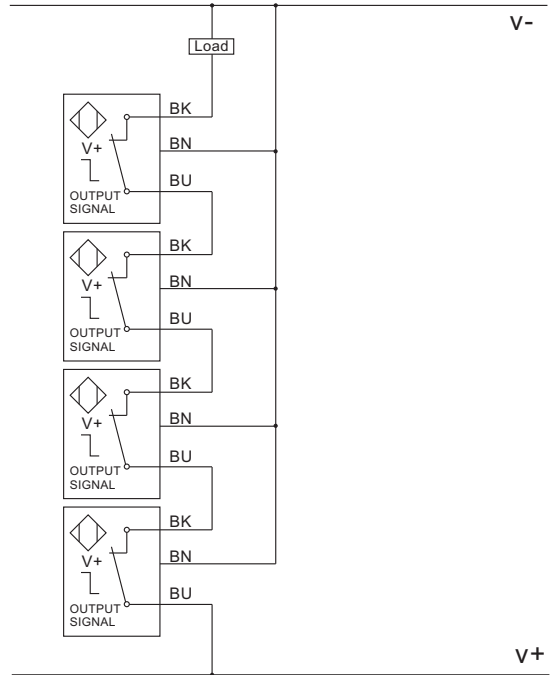
NPN N.C. SERIES WIRING "AND" FUNCTION



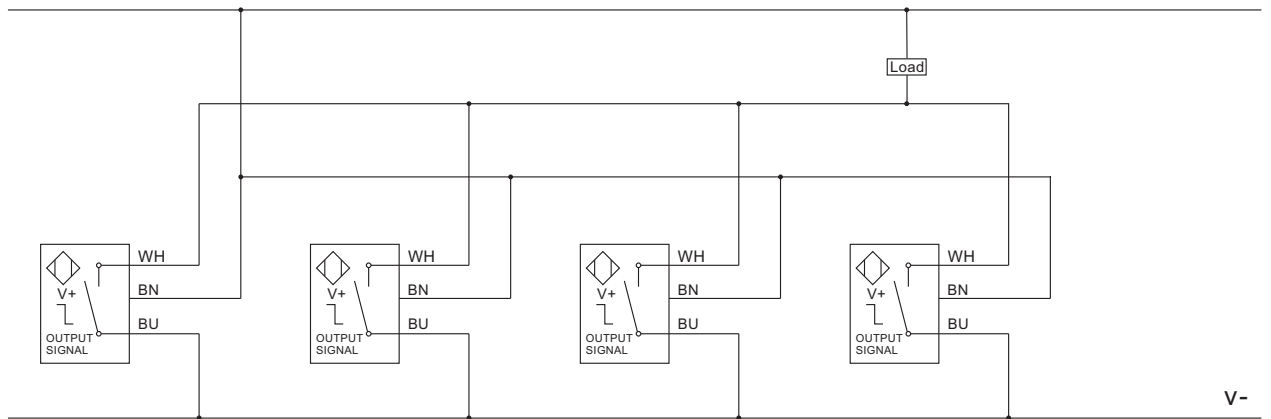
PNP 常开型输出型串联使用
PNP N.O. SERIES WIRING "AND" FUNCTION



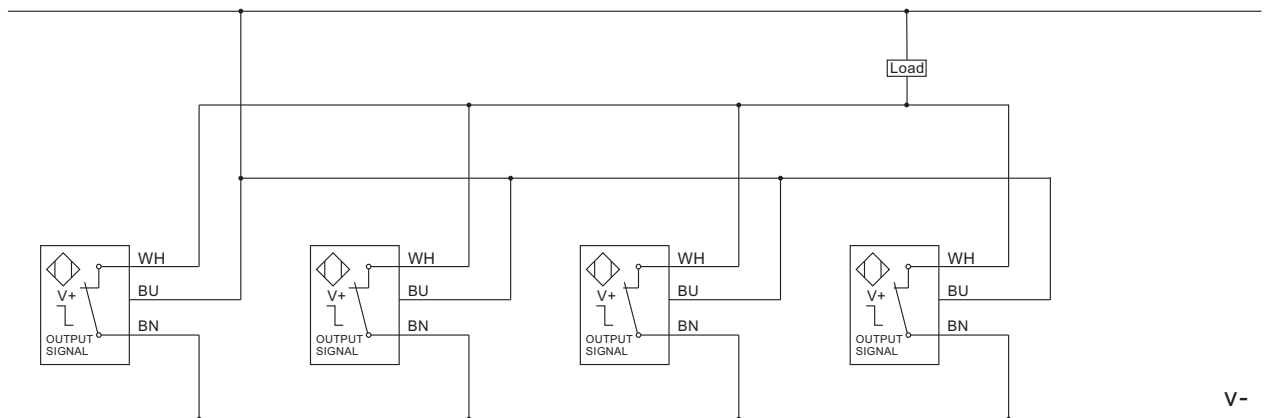
PNP 常闭型输出型串联使用
PNP N.C. SERIES WIRING "AND" FUNCTION



NPN 常开输出型并联使用/NPN N.O. PARALLEL WIRING - "R" FUNCTION

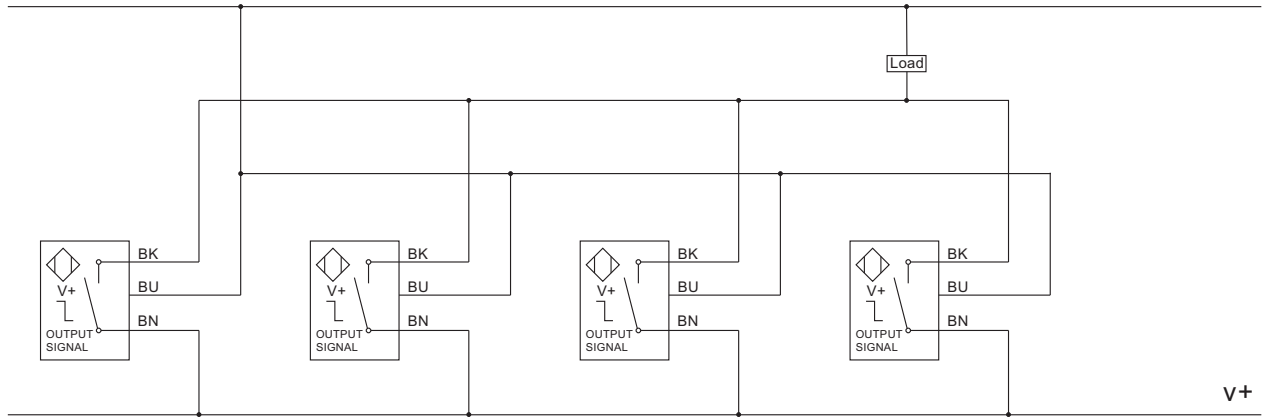


NPN 常闭输出型并联使用/NPN N.C. PARALLEL WIRING - "R" FUNCTION



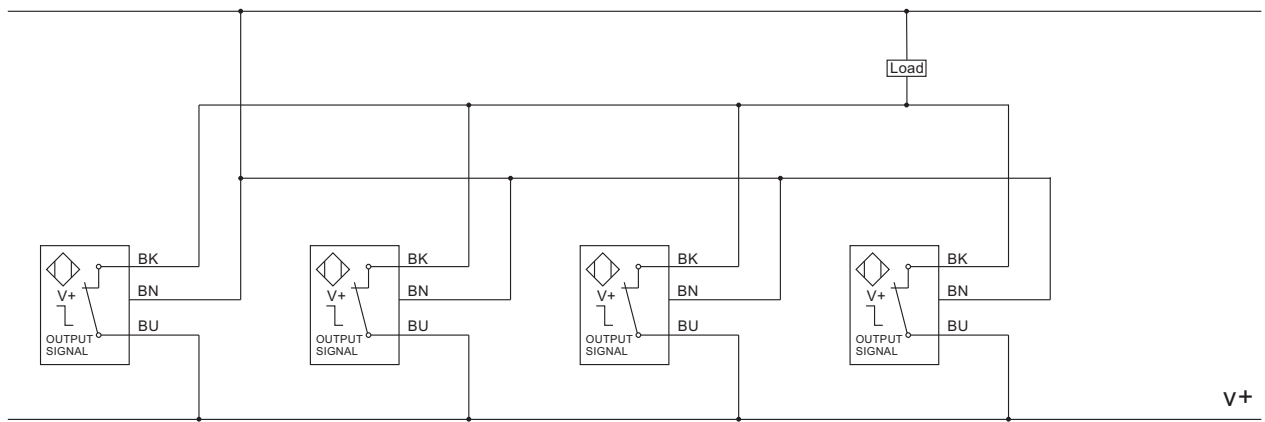
PNP 常开输出型并联使用/PNP N.O. PARALLEL WIRING - "R" FUNCTION

v-



PNP 常闭输出型并联使用/PNP N.C. PARALLEL WIRING - "R" FUNCTION

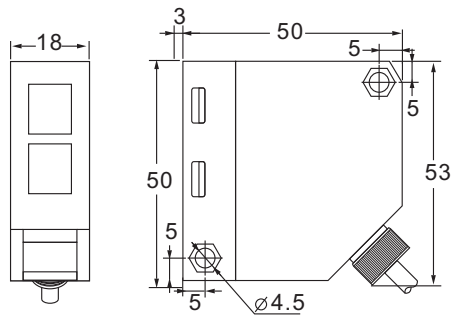
v-



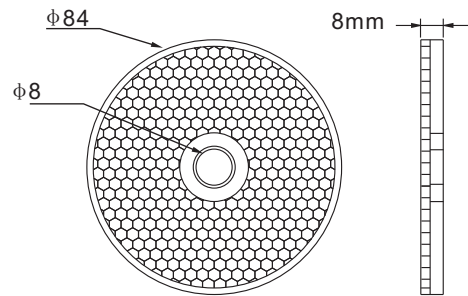
尺寸图 Dimension drawing(unit: mm)

附件 Accessories (unit:mm)

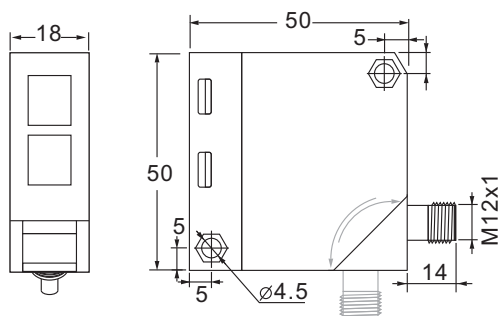
1



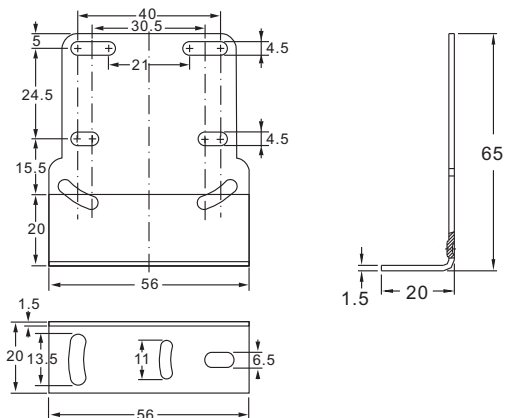
3 A83

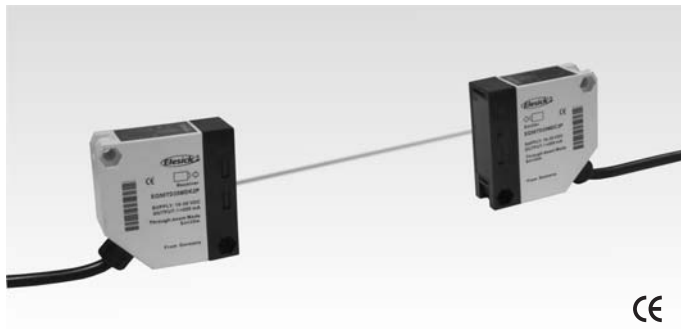


2



4 Brackets





特点描述/ Feature Description

- 采用专用 IC 制造，性能稳定
Performance more steady due to specialized IC
- 浪涌，过载，短路，逆极性保护功能
Surge, overload and reverse polarity protection
- 外壳材料：ABS 塑料
Housing material : ABS Plastic
- 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

选型/Selection:

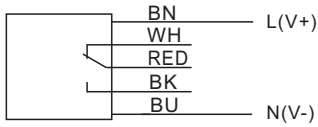
规格 Type	型号 Model	工作距离 Distance	输出功能 Output function	输出类型 Output type	光源 Emission	接线方式 Wiring	机械图 Dimensions
对射型 Through-beam 	发射器 Emitter	EQ50TU035MEC2P	-	-	Infrared(880nm)	2M PVC Cable	1
	接收器 Receiver	EQ50TU035MUR2P	Relay SPDT	N.O. or N.C.	Infrared(880nm)	2M PVC Cable	1
	发射器 Emitter	EQ50TU050MEC2P	-	-	Infrared(880nm)	2M PVC Cable	1
	接收器 Receiver	EQ50TU050MUR2P	Relay SPDT	N.O. or N.C.	Infrared(880nm)	2M PVC Cable	1
对射型 Through-beam 	发射器 Emitter	EQ50TU035MECEP	-	-	Infrared(880nm)	M12 Euro style	2
	接收器 Receiver	EQ50TU035MUREP	Relay SPDT	N.O. or N.C.	Infrared(880nm)	M12 Euro style	2
	发射器 Emitter	EQ50TU050MECEP	-	-	Infrared(880nm)	M12 Euro style	2
	接收器 Receiver	EQ50TU050MUREP	Relay SPDT	N.O. or N.C.	Infrared(880nm)	M12 Euro style	2
漫反射型 Diffuse mode 		EQ50DU0400UR2P	Relay SPDT	N.O. or N.C.	Infrared(880nm)	2M PVC Cable	1
		EQ50DU1000UR2P	Relay SPDT	N.O. or N.C.	Infrared(880nm)	2M PVC Cable	1
		EQ50DU1800UR2P	Relay SPDT	N.O. or N.C.	Infrared(880nm)	2M PVC Cable	1
		EQ50DU2000UR2P	Relay SPDT	N.O. or N.C.	Infrared(880nm)	2M PVC Cable	1
漫反射型 Diffuse mode 		EQ50DU0400UREP	Relay SPDT	N.O. or N.C.	Infrared(880nm)	M12 Euro style	2
		EQ50DU1000UREP	Relay SPDT	N.O. or N.C.	Infrared(880nm)	M12 Euro style	2
		EQ50DU1800UREP	Relay SPDT	N.O. or N.C.	Infrared(880nm)	M12 Euro style	2
		EQ50DU2000UREP	Relay SPDT	N.O. or N.C.	Infrared(880nm)	M12 Euro style	2
镜面反射型 Retro-reflective mode 		EQ50LU010MUR2P	Relay SPDT	N.O. or N.C.	Infrared(880nm)	2M PVC Cable	1
		EQ50LU010MUREP	Relay SPDT	N.O. or N.C.	Infrared(880nm)	M12 Euro style	2
镜面反射型加滤光片 Retro-reflective mode with polarizing filters 		EQ50LU6000UR2FP	Relay SPDT	N.O. or N.C.	Red(660nm)	2M PVC Cable	1
		EQ50LU6000UREFP	Relay SPDT	N.O. or N.C.	Red(660nm)	M12 Euro style	2

技术参数/Specification:

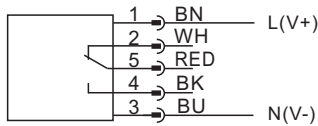
供电电压/Power supply	12-24VDC/24-240VAC
纹波电压/Ripple	<10%
光源/Emission	Infrared(880nm) or red(660nm)
输出形式/Output	Relay SPDT
最大负载电流/Max. Load Current	3A/30V AC, 1A/220V AC
电源消耗/Power Consumption	<2.5VA
开关频率/Switching Frequency	10HZ
响应时间/Response Time	20mS
启动延时/Start Up Delay	<300mS
工作温度 /Temperature Limits	-10 ~ +60℃
工作湿度 /Ambient humidity	35 to 85% RH
光源 /Light Immunity	>10.000Lux
防护等级 /Protection Degree	IP67
连接形式 /Connection Type	2M PVC Cable, M12 Euro style

电气接线图 Connection diagram

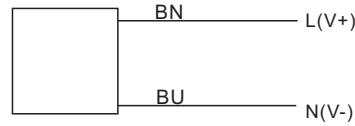
对射型接收器、镜面反式、漫反式接线图/
Receiver & Retro-reflective & Diffuse mode



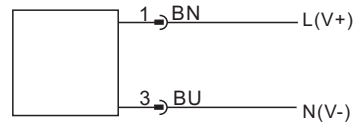
对射型接收器、镜面反式、漫反式接线图/
Receiver & Retro-reflective & Diffuse mode



对射型发射器接线图/Emitter

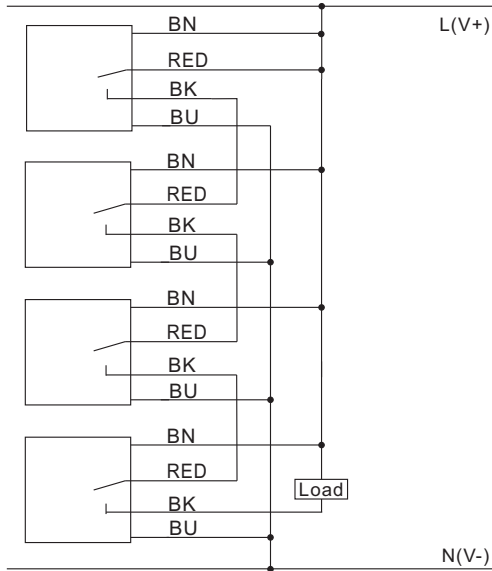


对射型发射器接线图/Emitter

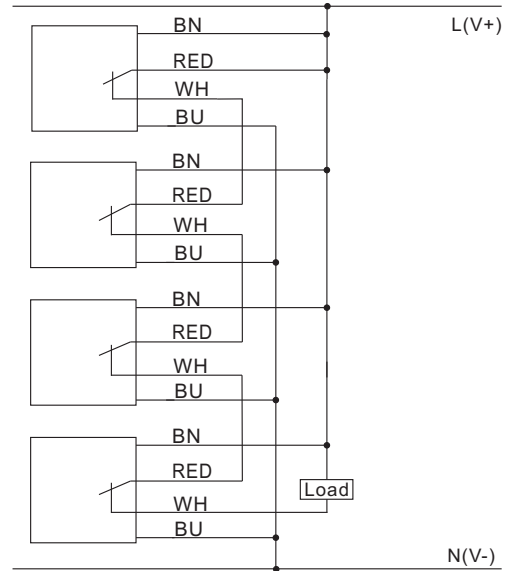


组合使用接线图/Combined use of wiring diagram

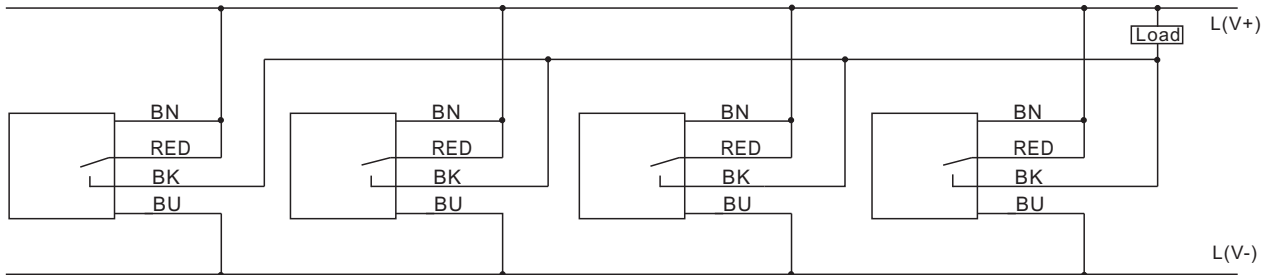
继电器常开输出型串联使用
Relay N.O. SERIES WIRING "AND" FUNCTION



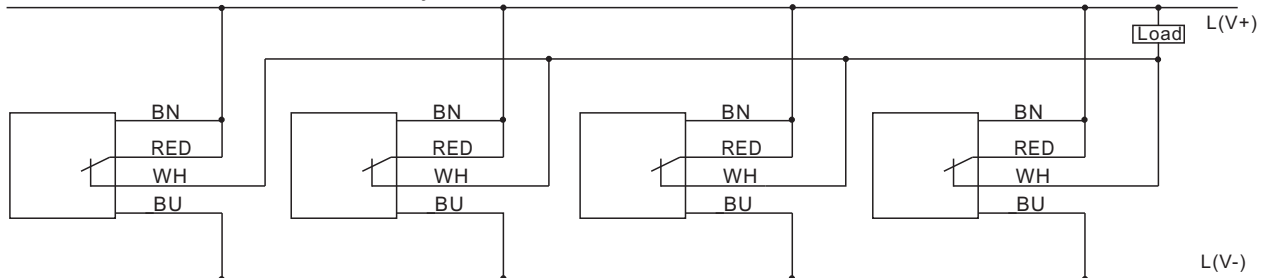
继电器常闭输出型串联使用
Relay N.C. SERIES WIRING "AND" FUNCTION



继电器常开输出型并联使用/Relay N.O. PARALLEL WIRING - "R" FUNCTION



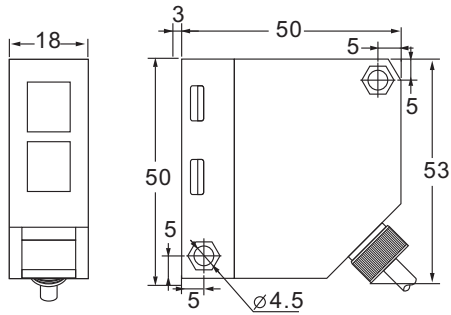
继电器常闭输出型并联使用/Relay N.C. PARALLEL WIRING - "R" FUNCTION



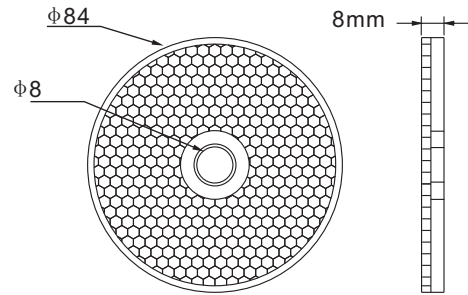
尺寸图 Dimension drawing(unit: mm)

附件 Accessories (unit:mm)

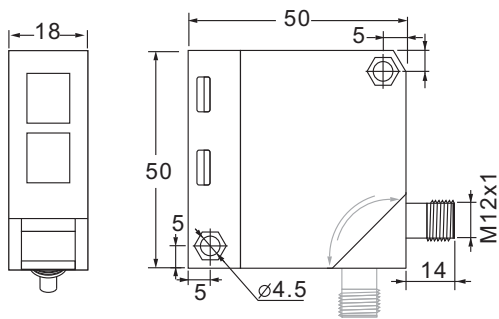
1



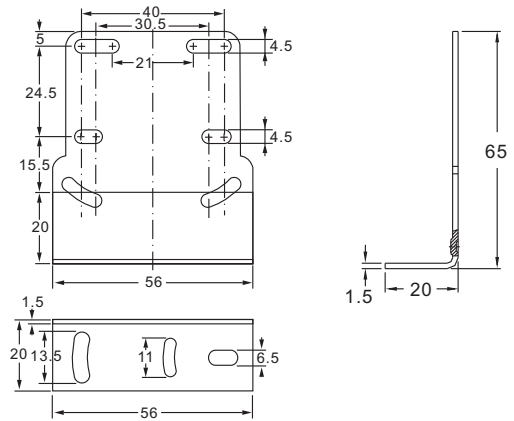
3 A83

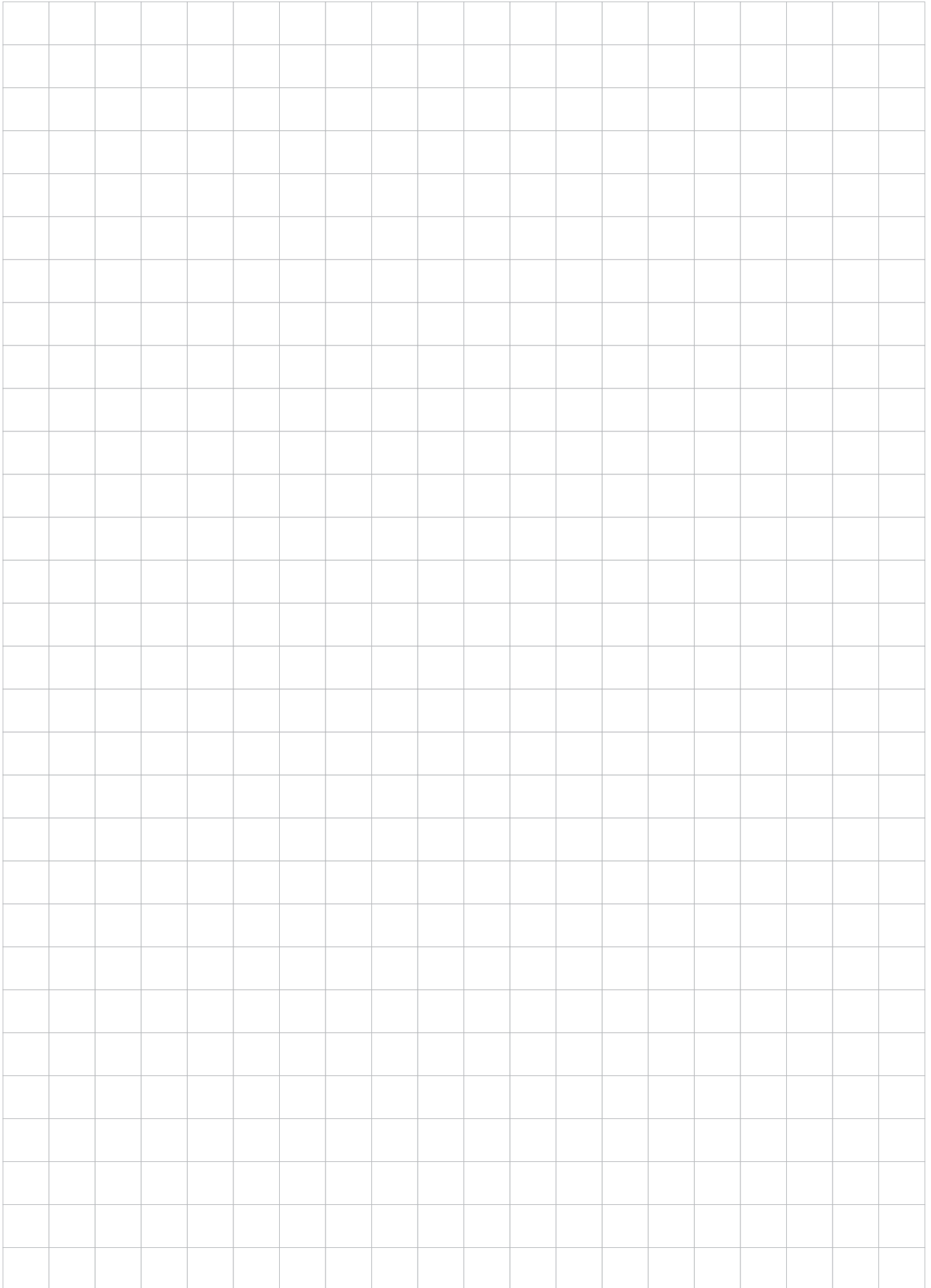


2



4 Brackets







特点描述/ Feature Description

- 采用专用 IC 制造，性能稳定
Performance more steady due to specialized IC
- 带输出延时功能，延时 0.1秒-7秒
Time Regulation 0.1s-7s
- 浪涌，过载，短路，逆极性保护功能
Surge, overload and reverse polarity protection
- 外壳材料：PBT塑料
Housing material : PBT Plastic
- 防护等级 IP65(IEC)
Protection degree : IP65 (IEC)

选型/Selection:

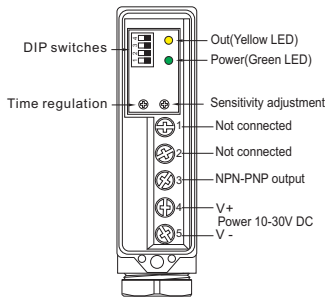
规格 Type	型号 Model	工作距离 Distance	输出功能 Output function	输出类型 Output type	光源 Emission	接线方式 Wiring	机械图 Dimensions	
漫反射型 Diffuse mode 	Without timer	EQ80DD1000DKTP	1m	NPN or PNP	N.O. or N.C.	Infrared(880nm)	5 pin terminal mode	1
		EQ80DD1800DKTP	1.8m	NPN or PNP	N.O. or N.C.	Infrared(880nm)	5 pin terminal mode	1
	With timer	EQ80DD1000DKTSP	1m	NPN or PNP	N.O. or N.C.	Infrared(880nm)	5 pin terminal mode	1
		EQ80DD1800DKTSP	1.8m	NPN or PNP	N.O. or N.C.	Infrared(880nm)	5 pin terminal mode	1
漫反射型 Diffuse mode 	Without timer	EQ80DD1000DKEP	1m	NPN or PNP	N.O. or N.C.	Infrared(880nm)	M12 Euro style	2
		EQ80DD1800DKEP	1.8m	NPN or PNP	N.O. or N.C.	Infrared(880nm)	M12 Euro style	2
	With timer	EQ80DD1000DKESP	1m	NPN or PNP	N.O. or N.C.	Infrared(880nm)	M12 Euro style	2
		EQ80DD1800DKESP	1.8m	NPN or PNP	N.O. or N.C.	Infrared(880nm)	M12 Euro style	2
镜面反射型 Retro-reflective mode 	Without timer	EQ80LD015MDKTP	15m	NPN or PNP	N.O. or N.C.	Infrared(880nm)	5 pin terminal mode	1
	With timer	EQ80LD015MDKTSP	15m	NPN or PNP	N.O. or N.C.	Infrared(880nm)	5 pin terminal mode	1
镜面反射型 Retro-reflective mode 	Without timer	EQ80LD015MDKEP	15m	NPN or PNP	N.O. or N.C.	Infrared(880nm)	M12 Euro style	2
	With timer	EQ80LD015MDKESP	15m	NPN or PNP	N.O. or N.C.	Infrared(880nm)	M12 Euro style	2
镜面反射型加滤光片 Retro-reflective mode with polarizing filters 	Without timer	EQ80LD9000DKTFP	9m	NPN or PNP	N.O. or N.C.	Red(660nm)	5 pin terminal mode	1
	With timer	EQ80LD9000DKTSFP	9m	NPN or PNP	N.O. or N.C.	Red(660nm)	5 pin terminal mode	1
镜面反射型加滤光片 Retro-reflective mode with polarizing filters 	Without timer	EQ80LD9000DKEFP	9m	NPN or PNP	N.O. or N.C.	Red(660nm)	M12 Euro style	2
	With timer	EQ80LD9000DKESFP	9m	NPN or PNP	N.O. or N.C.	Red(660nm)	M12 Euro style	2

技术参数/Specification:

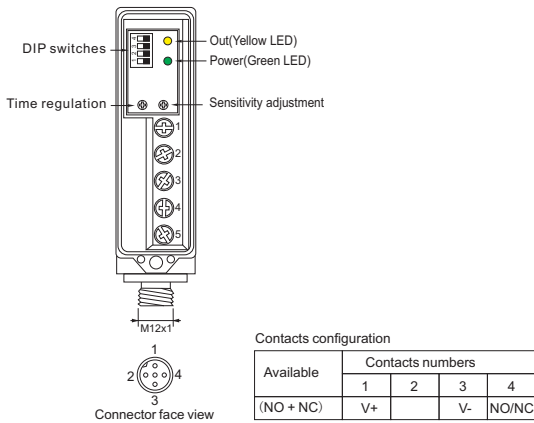
供电电压/Power supply	10...30VDC
纹波电压/Ripple	<10%
光源/Emission	Infrared(880nm) or red(660nm)
输出形式/Output	PNP or NPN (programmable)
输出特征/Output Characteristics	N.O. or N.C.(programmable)
最大负载电流/Max. Load Current	200mA
无负载电流/No Load Current	<40mA
电源消耗/Power Consumption	<2.5VA
响应时间/Response Time	2.5mS
输出延时/Time Regulation	0.1s-7s ± 2s(only models with timer)
启动延时/Start Up Delay	<300mS
短路保护/Short Circuit Protection	Yes
工作温度 /Temperature Limits	-10 ~ +60℃
工作湿度 /Ambient humidity	35 to 85% RH
光源 /Light Immunity	>10.000Lux
防护等级 /Protection Degree	Ip65
连接形式 /Connection Type	5 pin terminal mode, M12 Euro style

电气接线图 Connection diagram

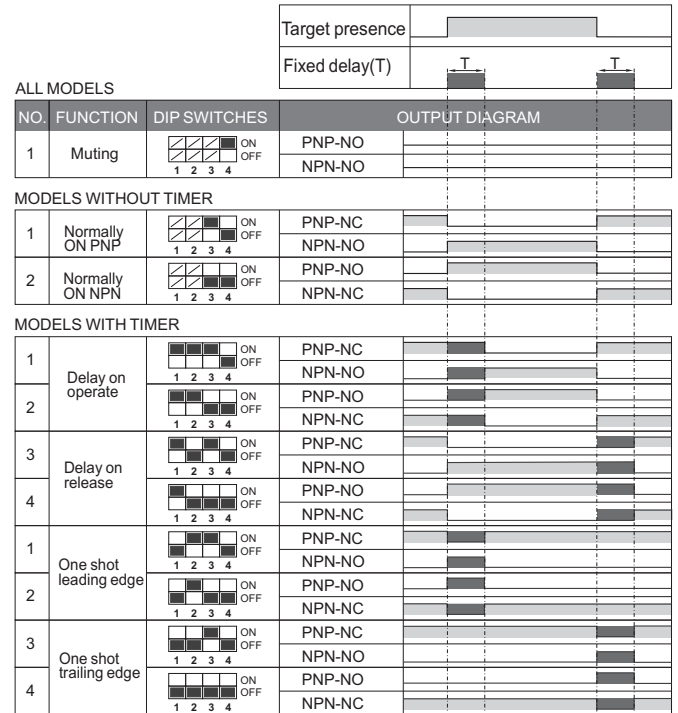
Terminal mode



Connection With Connector M12

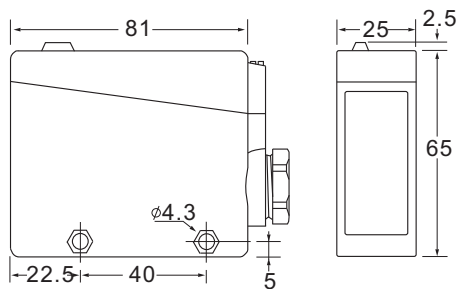


时序图/Timing Diagrams

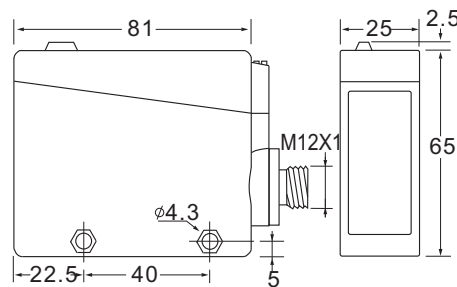


尺寸图 Dimension drawing(unit: mm)

1

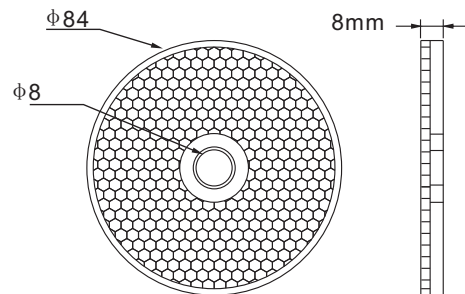


2

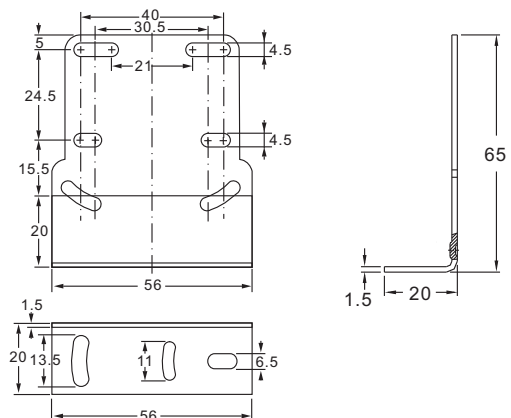


附件 Accessories (unit:mm)

3 A83



4 Brackets





特点描述/ Feature Description

- 采用专用 IC 制造，性能稳定
Performance more steady due to specialized IC
- 带输出延时功能，延时 0.1秒-7秒
Time Regulation 0.1s-7s
- 浪涌，过载，短路，逆极性保护功能
Surge, overload and reverse polarity protection
- 外壳材料：PBT塑料
Housing material : PBT Plastic
- 防护等级 IP65(IEC)
Protection degree : IP65 (IEC)

选型/Selection:

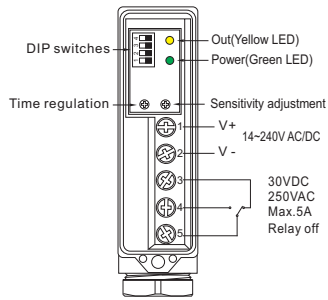
规格 Type	型号 Model	工作距离 Distance	输出功能 Output function	输出类型 Output type	光源 Emission	接线方式 Wiring	机械图 Dimensions	
对射型 Through-beam 	发射器 Emitter							
	接收器 Receiver	Without timer			Infrared(880nm)	5 pin terminal mode	1	
	接收器 Receiver	With timer			Infrared(880nm)	5 pin terminal mode	1	
对射型 Through-beam 	发射器 Emitter							
	接收器 Receiver	Without timer			Infrared(880nm)	M12 Euro style	2	
	接收器 Receiver	With timer			Infrared(880nm)	M12 Euro style	2	
漫反射型 Diffuse mode 	Without timer	EQ80DU1000URTP	1m	Relay SPDT	N.O. or N.C.	Infrared(880nm)	5 pin terminal mode	1
		EQ80DU1800URTP	1.8m	Relay SPDT	N.O. or N.C.	Infrared(880nm)	5 pin terminal mode	1
	With timer	EQ80DU1000URTSP	1m	Relay SPDT	N.O. or N.C.	Infrared(880nm)	5 pin terminal mode	1
		EQ80DU1800URTSP	1.8m	Relay SPDT	N.O. or N.C.	Infrared(880nm)	5 pin terminal mode	1
漫反射型 Diffuse mode 	Without timer	EQ80DU1000UREP	1m	Relay SPDT	N.O. or N.C.	Infrared(880nm)	M12 Euro style	2
		EQ80DU1800UREP	1.8m	Relay SPDT	N.O. or N.C.	Infrared(880nm)	M12 Euro style	2
	With timer	EQ80DU1000URES	1m	Relay SPDT	N.O. or N.C.	Infrared(880nm)	M12 Euro style	2
		EQ80DU1800URES	1.8m	Relay SPDT	N.O. or N.C.	Infrared(880nm)	M12 Euro style	2
镜面反射型 Retro-reflective mode 	Without timer	EQ80LU015MURTP	15m	Relay SPDT	N.O. or N.C.	Infrared(880nm)	5 pin terminal mode	1
	With timer	EQ80LU015MURTSP	15m	Relay SPDT	N.O. or N.C.	Infrared(880nm)	5 pin terminal mode	1
镜面反射型 Retro-reflective mode 	Without timer	EQ80LU015MUREP	15m	Relay SPDT	N.O. or N.C.	Infrared(880nm)	M12 Euro style	2
	With timer	EQ80LU015MURES	15m	Relay SPDT	N.O. or N.C.	Infrared(880nm)	M12 Euro style	2
镜面反射型加滤光片 Retro-reflective mode with polarizing filters	Without timer	EQ80LU9000URTFP	9m	Relay SPDT	N.O. or N.C.	Red(660nm)	5 pin terminal mode	1
	With timer	EQ80LU9000URTSP	9m	Relay SPDT	N.O. or N.C.	Red(660nm)	5 pin terminal mode	1
镜面反射型加滤光片 Retro-reflective mode with polarizing filters	Without timer	EQ80LU9000UREFP	9m	Relay SPDT	N.O. or N.C.	Red(660nm)	M12 Euro style	2
	With timer	EQ80LU9000URESFP	9m	Relay SPDT	N.O. or N.C.	Red(660nm)	M12 Euro style	2

技术参数/Specification:

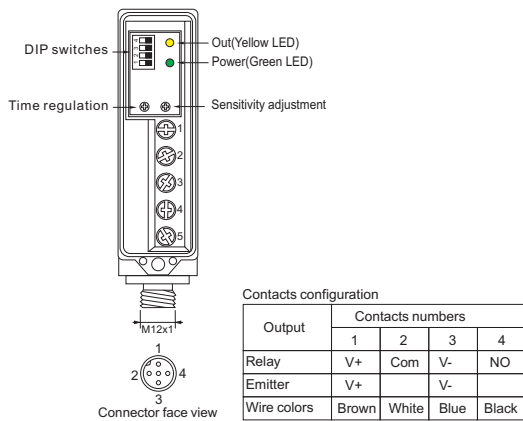
供电电压/Power supply	10...30VDC
纹波电压/Ripple	<10%
光源/Emission	Infrared(880nm) or red(660nm)
输出形式/Output	Relay SPDT
最大负载电流/Max. Load Current	3A/30V AC, 1A/220V AC
电源消耗/Power Consumption	<2.5VA
开关频率/Switching Frequency	10HZ
响应时间/Response Time	100mS
输出延时/Time Regulation	0.1s-7s ± 2s(only models with timer)
启动延时/Start Up Delay	<300mS
短路保护/Short Circuit Protection	Yes
工作温度/Temperature Limits	-10 ~ +60℃
光源/Light Immunity	>10.000Lux
防护等级/Protection Degree	IP65
连接形式/Connection Type	5 pin terminal mode, M12 Euro style

电气接线图 Connection diagram

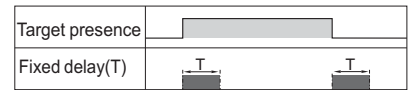
• Terminal mode



• Connection With Connector M12



时序图/Timing Diagrams



ALL MODELS

NO.	FUNCTION	DIP SWITCHES	OUTPUT DIAGRAM
1	Muting	ON OFF 1 2 3 4	Not activated relay

MODELS WITHOUT TIMER

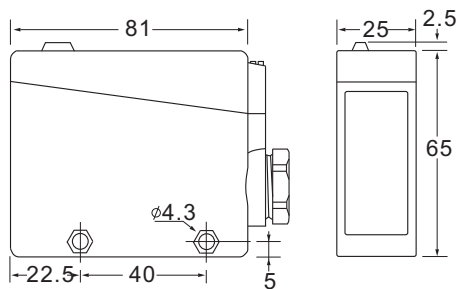
1	Normally ON	ON OFF 1 2 3 4	Normally activated relay
2	Normally OFF	ON OFF 1 2 3 4	Normally not activated relay

MODELS WITH TIMER

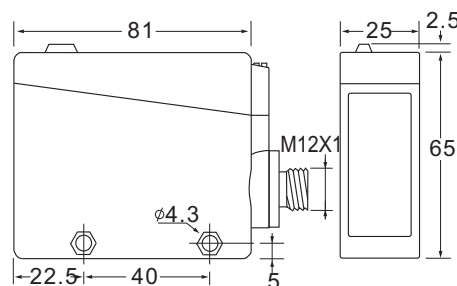
1	Delay on operate	ON OFF 1 2 3 4	Normally activated relay
2		ON OFF 1 2 3 4	Normally not activated relay
3	Delay on release	ON OFF 1 2 3 4	Normally activated relay
4		ON OFF 1 2 3 4	Normally not activated relay
1	One shot leading edge	ON OFF 1 2 3 4	Normally activated relay
2		ON OFF 1 2 3 4	Normally not activated relay
3	One shot trailing edge	ON OFF 1 2 3 4	Normally activated relay
4		ON OFF 1 2 3 4	Normally not activated relay

尺寸图 Dimension drawing(unit: mm)

1

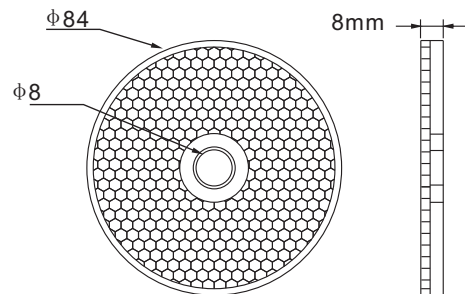


2

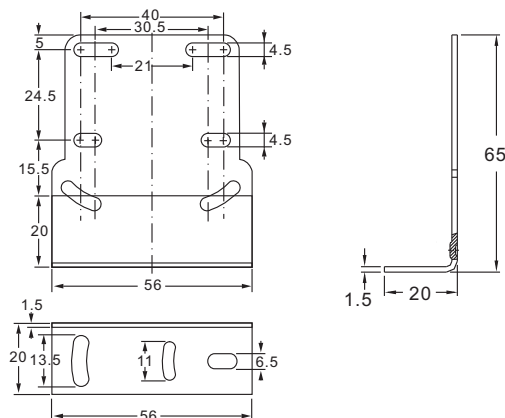


附件 Accessories (unit:mm)

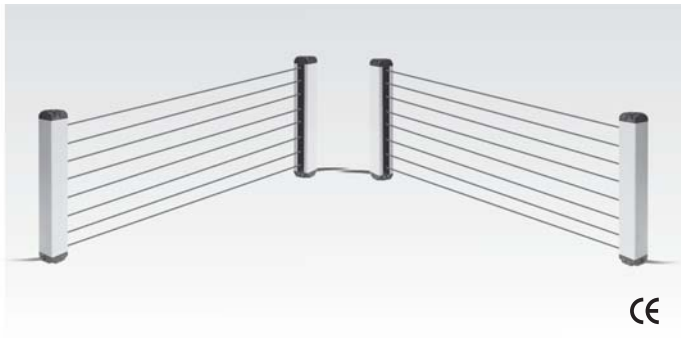
3 A83



4 Brackets



Applications

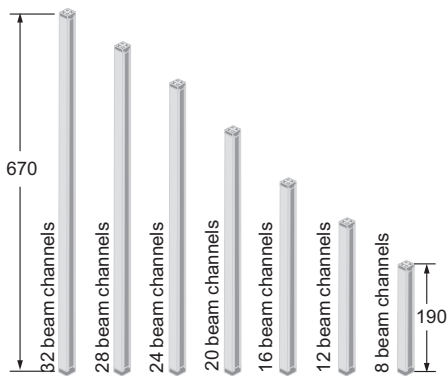


特点描述/ Feature Description

- 采用专用 IC 制造，性能稳定
Performance more steady due to specialized IC
- 浪涌，过载，短路，逆极性保护功能
Surge, overload and reverse polarity protection
- 外壳材料：铝合金
Housing material : Aluminum
- 防护等级 IP65(IEC)
Protection degree : IP65 (IEC)

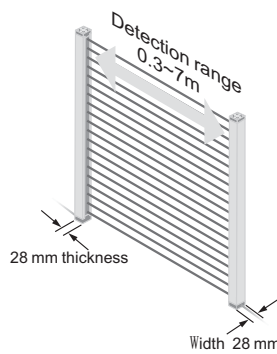
Wide variety

There are eight types of sensors having a sensing height ranging from 190mm(8 beam channels) to 670mm (32 beam channels).



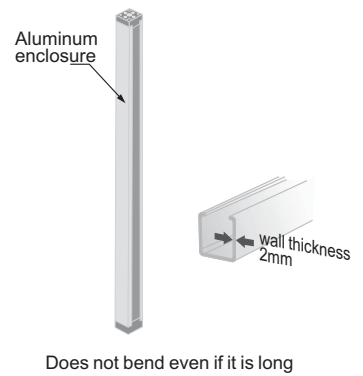
Space-saving design

With its 28 mm width and 28 mm thickness, it is small and requires the least installation space in the industry. It can be installed in small spaces incorporated within equipment.

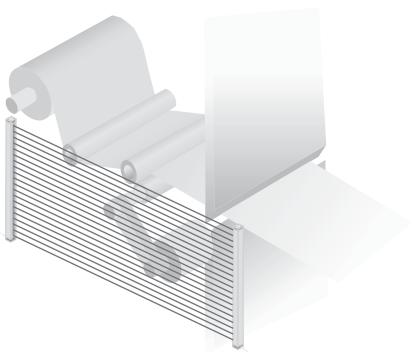


Robust Aluminum Enclosure

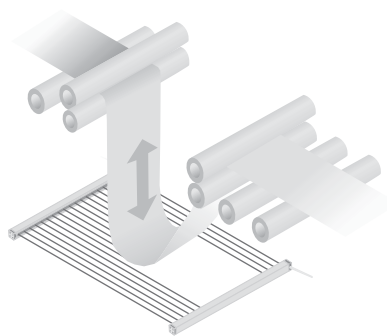
The modules are protected by a robust aluminum enclosure conforming to IP65 protection.



Guard against blade



Detecting a loop



Detecting falling objects whose path is uncertain



WARNING

Never use this product in any personnel safety application. It is a normal object detection sensor

选型(电缆输出型)/ Selection(Cable output):

规格 Type		型号 Model	通道数 Beam channels	防护高度 Protective height
发射器 Emitter		E28-08ES-C2	8	140mm
接收器 Receiver	NPN N.O.	E28-08NA-C2	8	140mm
	NPN N.C.	E28-08NB-C2	8	140mm
	PNP N.O.	E28-08PA-C2	8	140mm
	PNP N.C.	E28-08PB-C2	8	140mm
	Relay SPDT	E28-08RS-C2	8	140mm
发射器 Emitter		E28-12ES-C2	12	220mm
接收器 Receiver	NPN N.O.	E28-12NA-C2	12	220mm
	NPN N.C.	E28-12NB-C2	12	220mm
	PNP N.O.	E28-12PA-C2	12	220mm
	PNP N.C.	E28-12PB-C2	12	220mm
	Relay SPDT	E28-12RS-C2	12	220mm
发射器 Emitter		E28-16ES-C2	16	300mm
接收器 Receiver	NPN N.O.	E28-16NA-C2	16	300mm
	NPN N.C.	E28-16NB-C2	16	300mm
	PNP N.O.	E28-16PA-C2	16	300mm
	PNP N.C.	E28-16PB-C2	16	300mm
	Relay SPDT	E28-16RS-C2	16	300mm
发射器 Emitter		E28-20ES-C2	20	380mm
接收器 Receiver	NPN N.O.	E28-20NA-C2	20	380mm
	NPN N.C.	E28-20NB-C2	20	380mm
	PNP N.O.	E28-20PA-C2	20	380mm
	PNP N.C.	E28-20PB-C2	20	380mm
	Relay SPDT	E28-20RS-C2	20	380mm
发射器 Emitter		E28-24ES-C2	24	460mm
接收器 Receiver	NPN N.O.	E28-24NA-C2	24	460mm
	NPN N.C.	E28-24NB-C2	24	460mm
	PNP N.O.	E28-24PA-C2	24	460mm
	PNP N.C.	E28-24PB-C2	24	460mm
	Relay SPDT	E28-24RS-C2	24	460mm
发射器 Emitter		E28-28ES-C2	28	540mm
接收器 Receiver	NPN N.O.	E28-28NA-C2	28	540mm
	NPN N.C.	E28-28NB-C2	28	540mm
	PNP N.O.	E28-28PA-C2	28	540mm
	PNP N.C.	E28-28PB-C2	28	540mm
	Relay SPDT	E28-28RS-C2	28	540mm
发射器 Emitter		E28-32ES-C2	32	620mm
接收器 Receiver	NPN N.O.	E28-32NA-C2	32	620mm
	NPN N.C.	E28-32NB-C2	32	620mm
	PNP N.O.	E28-32PA-C2	32	620mm
	PNP N.C.	E28-32PB-C2	32	620mm
	Relay SPDT	E28-32RS-C2	32	620mm

选型(插接件输出型)/ Selection(Pigtail Output):

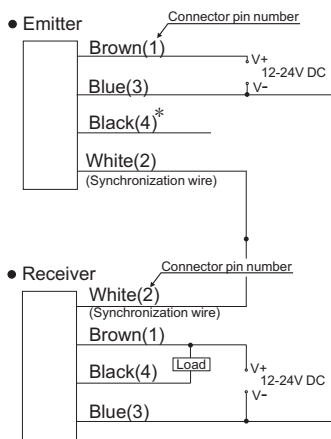
规格 Type		型号 Model	通道数 Beam channels	防护高度 Protective height
发射器 Emitter		E28-08ES-E4	8	140mm
接收器 Receiver	NPN N.O.	E28-08NA-E4	8	140mm
	NPN N.C.	E28-08NB-E4	8	140mm
	PNP N.O.	E28-08PA-E4	8	140mm
	PNP N.C.	E28-08PB-E4	8	140mm
	Relay SPDT	-	-	-
发射器 Emitter		E28-12ES-E4	12	220mm
接收器 Receiver	NPN N.O.	E28-12NA-E4	12	220mm
	NPN N.C.	E28-12NB-E4	12	220mm
	PNP N.O.	E28-12PA-E4	12	220mm
	PNP N.C.	E28-12PB-E4	12	220mm
	Relay SPDT	-	-	-
发射器 Emitter		E28-16ES-E4	16	300mm
接收器 Receiver	NPN N.O.	E28-16NA-E4	16	300mm
	NPN N.C.	E28-16NB-E4	16	300mm
	PNP N.O.	E28-16PA-E4	16	300mm
	PNP N.C.	E28-16PB-E4	16	300mm
	Relay SPDT	-	-	-
发射器 Emitter		E28-20ES-E4	20	380mm
接收器 Receiver	NPN N.O.	E28-20NA-E4	20	380mm
	NPN N.C.	E28-20NB-E4	20	380mm
	PNP N.O.	E28-20PA-E4	20	380mm
	PNP N.C.	E28-20PB-E4	20	380mm
	Relay SPDT	-	-	-
发射器 Emitter		E28-24ES-E4	24	460mm
接收器 Receiver	NPN N.O.	E28-24NA-E4	24	460mm
	NPN N.C.	E28-24NB-E4	24	460mm
	PNP N.O.	E28-24PA-E4	24	460mm
	PNP N.C.	E28-24PB-E4	24	460mm
	Relay SPDT	-	-	-
发射器 Emitter		E28-28ES-E4	28	540mm
接收器 Receiver	NPN N.O.	E28-28NA-E4	28	540mm
	NPN N.C.	E28-28NB-E4	28	540mm
	PNP N.O.	E28-28PA-E4	28	540mm
	PNP N.C.	E28-28PB-E4	28	540mm
	Relay SPDT	-	-	-
发射器 Emitter		E28-32ES-E4	32	620mm
接收器 Receiver	NPN N.O.	E28-32NA-E4	32	620mm
	NPN N.C.	E28-32NB-E4	32	620mm
	PNP N.O.	E28-32PA-E4	32	620mm
	PNP N.C.	E28-32PB-E4	32	620mm
	Relay SPDT	-	-	-

技术参数/Specification:

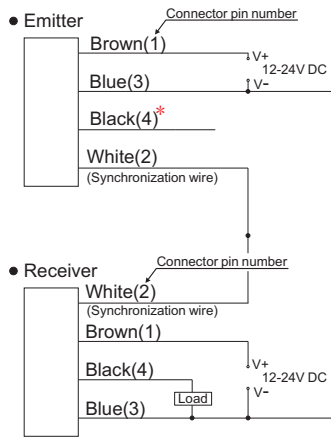
供电电压/Power supply	12 to 24V DC 10% Ripple p-p 10% or less	
纹波电压/Ripple	<10%	
感应目标/Sensing object	Ø30mm or more opaque object	
输出 / Output	NPN	NPN open-collector transistor, Max. Load current:100mA; Voltage Drop: <1.5V
	PNP	PNP open-collector transistor, Max. load current:100mA; Voltage Drop: <1.5V
	Relay	Relay SPDT, 5A/250VAC, 5A/30VDC
输出操作 / Output operation	ON when all beams are received, OFF when one or more beams are interrupted.	
短路保护/Short-circuit protection	Yes	
响应时间/Response Time	10ms or less	
指示 /Indicators	Emitter	Power indicator: green LEDX2(light up when the power is ON; If emitter is off that is indicated by the number of LEDs lighting up)
	Receiver	Operation indicator: Red LED(lights up when one or more beams are interrupted), Stable indicator: Green LED(lights up when all beams are stable received)
防干扰功能 /Interference prevention function	Yes	
工作温度 /Temperature Limits	-10 to +55 °C, Storage: -10 to +60 °C	
环境亮度 /Ambient illuminance	Sunlight: 10,000lx at the light -receiving face, Incandescent light: 3,000lx at the light-receiving face	
EMC immunity	RFI>10V/m(in 30-1000MHZ), EFT>1KV, ESD>4KV(contact)	
耐压 /Voltage withstand ability	1,000 V AC for one min. between all supply terminals connected together and enclosure	
绝缘电阻 /Insulation resistance	20 MΩ, or more, with 250 V DC megger between all supply terminals connected together and enclosure	
耐振动 /ation resistance	10 to 150 Hz frequency, 0.75 mm 0.030 in amplitude in X, Y and Z directions for two hours each	
耐冲击 /Shock resistance	490m/s ² , acceleration(50G approx) in X, Y and Z directions for three times each	
发光晶体 /Emitting element	Infrared LED	
外壳材料 /Material	Enclosure: Aluminum, lens: polyester	
电缆和接头 /Cable or pigtail	Ø5.0 PVC 2m, 4(6)x0.5mm ² ; Ø5.0; PVC 0.5m, With Euro Style	

配线图 / Wiring Diagram

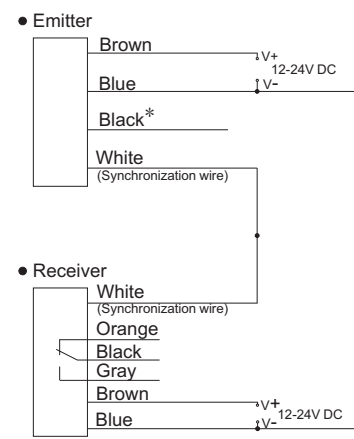
NPN output type



PNP output type



Relay SPDT output type



Pigtail Wiring Diagrams For Dc NPN/PNP Type

	Emitter	Receiver
	1. Brown(V+)	1. Brown(V+)
	2. White (Synchronization wire)	2. White (Synchronization wire)
	3. Blue(V-)	3. Blue(V-)
	4. Black*	4. output

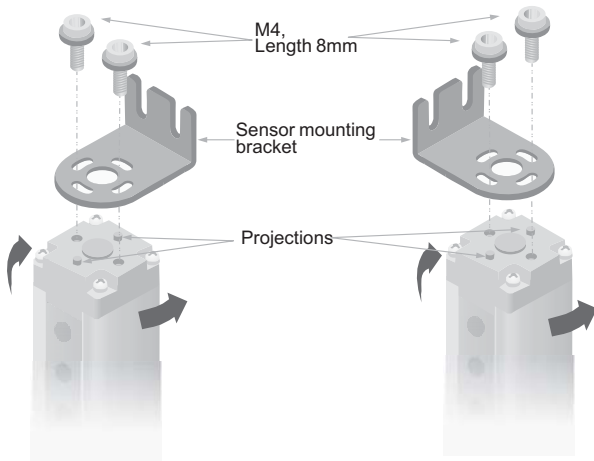
* Note: Black wire is connected to V- for emitter off; Black wire is connected to V+ or open for emitter on.

LED indicator:

Emitter ON	Emitter OFF
 One LED lights up	 Two LEDs light up

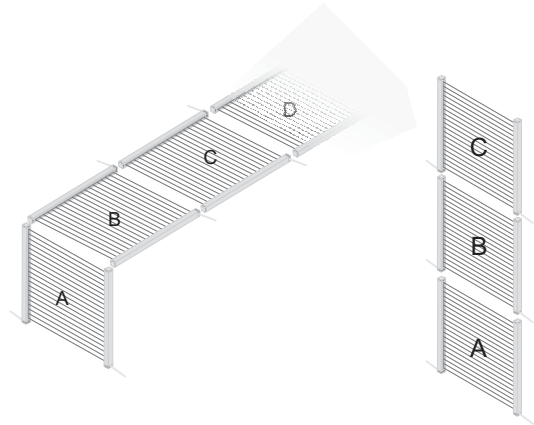
安装/ Mounting

Choose the mounting direction for the sensor mounting bracket based on the mounting direction (side or back), and temporarily tighten the brackets with the two hexagon-socket-head bolts for adjusting the mounting angle (M4 length 8mm). Tighten two hexagon-socket-head bolts securely, after beam alignment.



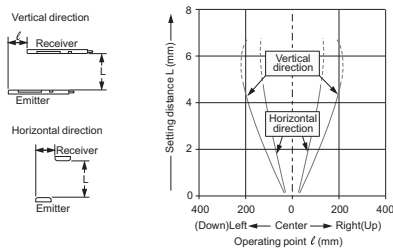
防干扰功能/Interference Prevention Function

By synchronous sampling of software and hardware, two or more units of SL2 can be mounted close together, as shown in the figures below.

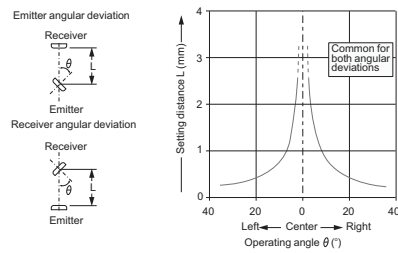


特性 (典型) / Sensing Characteristics (typical)

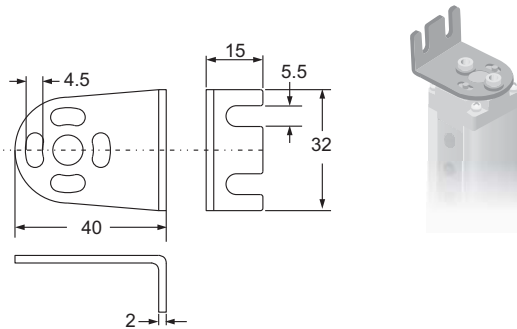
Parallel deviation (all models)



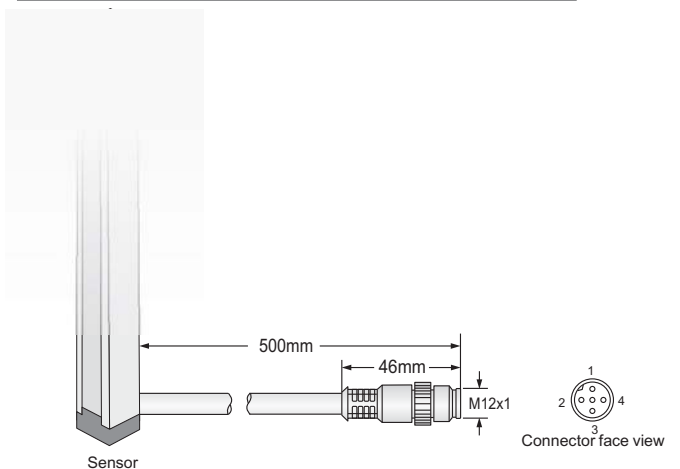
Angular deviation all models



配件/ Bracket Dimensions (unit: mm)



接头/Diameter for Pigtail connector





特点描述/ Feature Description

- ◆ 带安全锁定螺母
Screw locking with (auto) securing safety nut
- ◆ 模具一次成型
With moulded cable
- ◆ 材料: PVC或PUR
Material : PVC or PUR
- ◆ 防护等级 IP67(IEC)
Protection degree : IP67 (IEC)

选型/ Selection:

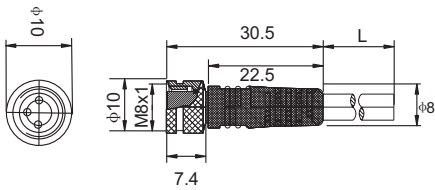
图片 Picture	型号 Model	孔数 Holes	正面看 Face View female	芯线颜色 Color code	线径,材料 Outer jacket	线长 Cable Length	机械图 Dimensions
M8 Pico-style							
	EP-FS3WLV2	3		1=brown 3=blue 4=black	φ5mm PVC	2m	1
	EP-FA3WLV2	3		1=brown 3=blue 4=black	φ5mm PVC	2m	2
	EP-FS4WLV2	4		1=brown 2=white 3=blue 4=black	φ5mm PVC	2m	3
	EP-FA4WLV2	4		1=brown 2=white 3=blue 4=black	φ5mm PVC	2m	4
M12 Euro-style							
	EE-FS4WLV2	4		1=brown 2=white 3=blue 4=black	φ5mm PVC	2m	5
	EE-FA4WLV2	4		1=brown 2=white 3=blue 4=black	φ5mm PVC	2m	6
M12 Micro-style							
	EM-FS3WLV2	3		1=brown 3=blue 4=black	φ5mm PVC	2m	7
	EM-FA3WLV2	3		1=brown 3=blue 4=black	φ5mm PVC	2m	8

技术参数/Specification:

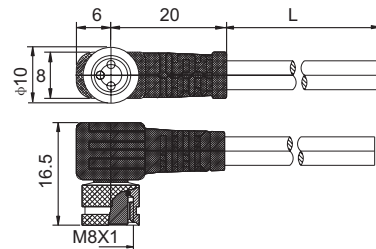
应用类/Application Class	HNE acc.to DIN 40040 (-25°C/+90°C/≥75%rF)
模压结构/Moulded Body	TPU, self-extinguishing
额定功率/Nominal Power	4A
额定电压/Nominal Voltage	60VAC/75VDC
连接 /Contact	CuZn, pre-nickeled and 0.8microns gold-plated
O 形圈 /O-Ring	Viton
本体 / Body	TPU, self-extinguishing
安全螺母/Short-circuit protection	Nickel plated brass
保护标准/Protection	IP 68
接触电阻 /Contact Resistance	≤ 5m Ω
绝缘 /Receiver	C acc.to VDE 0110
测试电压/Test Voltage	1.5 KV eff./ 60 s.
绝缘电阻 /Insulation Resistance	>10 ⁹ Ω

尺寸图 Dimension drawing(unit: mm)

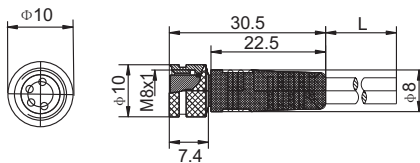
1



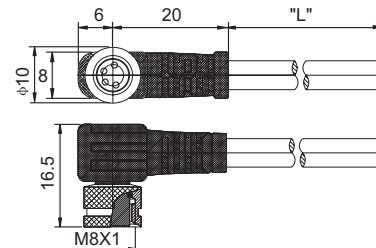
2



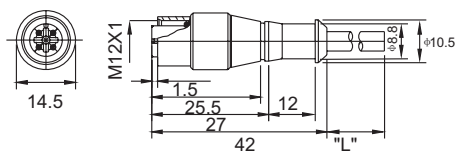
3



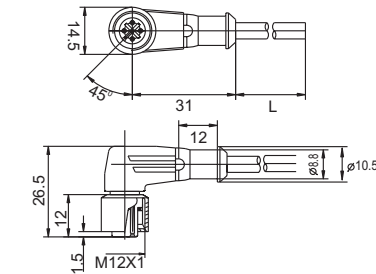
4



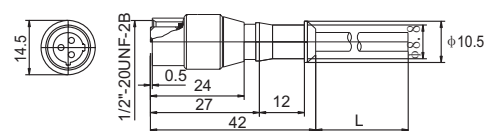
5



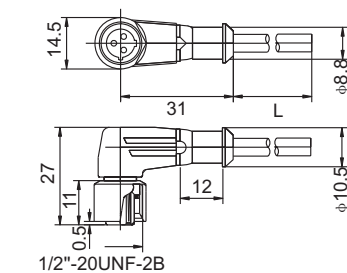
6



7



8





德国 · **Elesick**®

