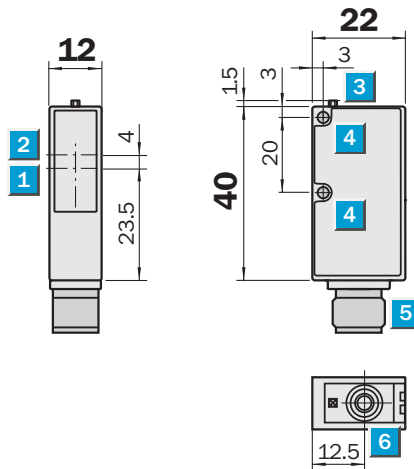


	Scanning distance 12.5 mm
Contrast scanners	

- Light source green or red, green, blue
- Integrated switching threshold adjustment for detection of extremely shiny objects
- Static two point Teach-in to mark and background via control cable or control panel on unit
- Switching frequency 10 000/s

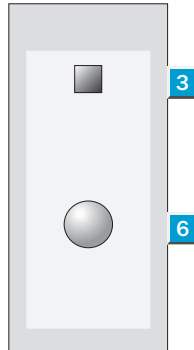
Dimensional drawing



Adjustments possible

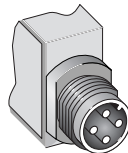
- KT 3W-P 1116
- KT 3W-N 1116
- KT 3G-P 1116
- KT 3G-N 1116

- 1 Axis of the sender optics
- 2 Axis of the receiver optics
- 3 LED signal strength indicator
- 4 Mounting hole
- 5 Plug M 12, 4 pin
- 6 Operating components

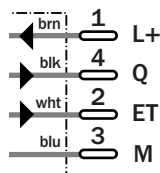


Connection type

- KT 3W-P 1116
- KT 3W-N 1116
- KT 3G-P 1116
- KT 3G-N 1116



4 pin, M 12



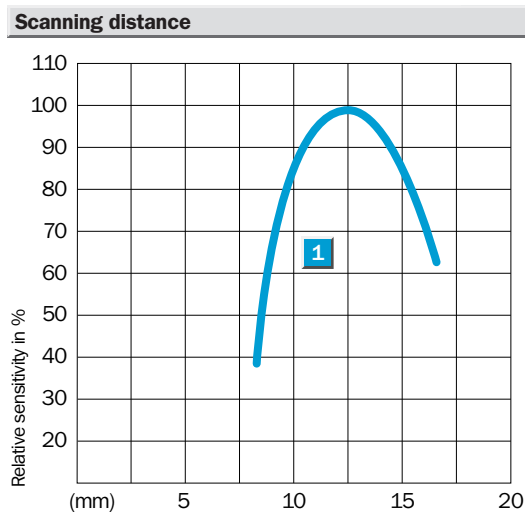
Accessories
Connectors
Mounting systems

Technical data		KT 3	W-P 1116	W-N 1116	G-P 1116	G-N 1116					
Scanning distance	12.5 mm										
from front edge of lens											
Scanning distance tolerance	± 2 mm										
Light spot dimensions	1.5 x 6.5 mm										
	1.5 x 3.5 mm										
Light source⁴⁾, light type	Red, green, blue										
	Green										
Supply voltage V_s	24 V DC ± 20%										
Ripple ²⁾	< 5 V _{pp}										
Current consumption ³⁾	< 35 mA										
Switching outputs	NPN: HIGH = V _s / LOW = < 2 V										
	PNP: HIGH = V _s - < 2 V / LOW = approx. 0 V										
Output current I _A max.	100 mA										
Response time ⁴⁾	50 μs										
Switching frequency ⁵⁾	To 10000/s										
Time delay optional	20 ms										
Teach-in input ET	PNP: Teach > 10 V ... < V _s										
	NPN: Teach 0 V										
Connection type	Plug 4 pin, M 12										
VDE protection class⁶⁾	□										
Enclosure rating	IP 67										
Circuit protection⁷⁾	A, B, C										
Ambient temperature	Operation - 10 ... + 55 °C										
	Storage - 20 ... + 75 °C										
Shock load	To IEC 68										
Weight	Approx. 80 g										
Housing material	ABS										

¹⁾ Average service life 100,000 h at T_A = + 25 °C
²⁾ May not exceeded or fall short of V_s tolerances

³⁾ Without load
⁴⁾ Signal transit time with resistive load
⁵⁾ With light/dark ratio 1:1
⁶⁾ Reference voltage 50 V DC

⁷⁾ A = V_s connections reverse-polarity protected
 B = Outputs short-circuit protected
 C = Interference pulse suppression



1 Scanning distance 12.5 mm

Static Teach-in		Order information	
Static Teach-in KT 3 via control panel:		Type	Part no.
1. Place mark in light spot.		KT 3W-P 1116	1 019 338
2. Press the Teach-in button on the equipment for longer than 1 s, and then trigger the first Teach-in procedure.		KT 3W-N 1116	1 019 337
3. Place the light spot on the background, and then trigger the second Teach-in procedure.		KT 3G-P 1116	1 019 446
		KT 3G-N 1116	1 019 445

- Teach-in via control wire:**
1. Place mark in light spot.
 2. Trigger the first Teach-in procedure via the control wire.
 3. Place the light spot on the background, and then trigger the second Teach-in procedure via the control wire.

The KT 3W selects transmission light from among red, blue and green automatically.

Confirmation:
 After the first Teach-in procedure, the red transmitter light blinks with the KT 3W and the green with the KT 3G, and the status indicator blinks slowly and signals that a second Teach-in procedure must be triggered.

LED and status indicator blink rapidly = contrast insufficient.
 LED and status indicator do not blink = Teach-in procedure completed.