DC V/I Signal Converter/ Frequency Signal Transducer

Application:

·DC signal converter to isolated frequency pulse signal
·Accurate digital voltage testing meters
·A/D isolated converter instruments
·Data testing and remote monitor instrument
·Analog signal data acquisition
·Ground interference control

Characteristic

·Change the input signal into unit impulse signal
·Efficiency grade: 0.1/0.2
·International standard signal input: 0-5V/0-10V/1-5V, 0-10mA/0-20mA/4-20mA
·Standard signal output： 0-5KHz/0-10KHz /1-5KHz and so on
·Extremely high linearity in whole process（Nonlinearity<2%）
·Signal input/output/ Accessorial power supply

Model and Description:

DIN 1X1 ISO- U(A)□- P□- F□

Input rated voltage（or current）
U1： 0-5V
U2：0-10V
U8：Customized
A1：0-1mA
A2：0-10mA
A3：0-20mA
A4：4-20mA
A8：Customized

Auxiliary Power P
P1： DC24V
P2： DC12V
P3： DC5V
P4： DC15V
P5：220VAC
P8：Customized

Output F
F1：0-5KHz (5V impulse)
F2：0-10KHz (5V impulse)
F3：1-5KHz (5V impulse)
F4：0-5KHz (open collector)
F5：0-10KHz (open collector)
F6：1-5KHz (open collector)
F8：Customized

Example:

Eg1：input：0-5V	Accessorial power supply：24VDC	output：0-5KHz	Model：DIN 1X1 ISO-U1-P1-F1
Eg2：input：0-20mA	Accessorial power supply：5VDC	output：0-10KHz	Model：DIN 1X1 ISO-A3-P3-F2

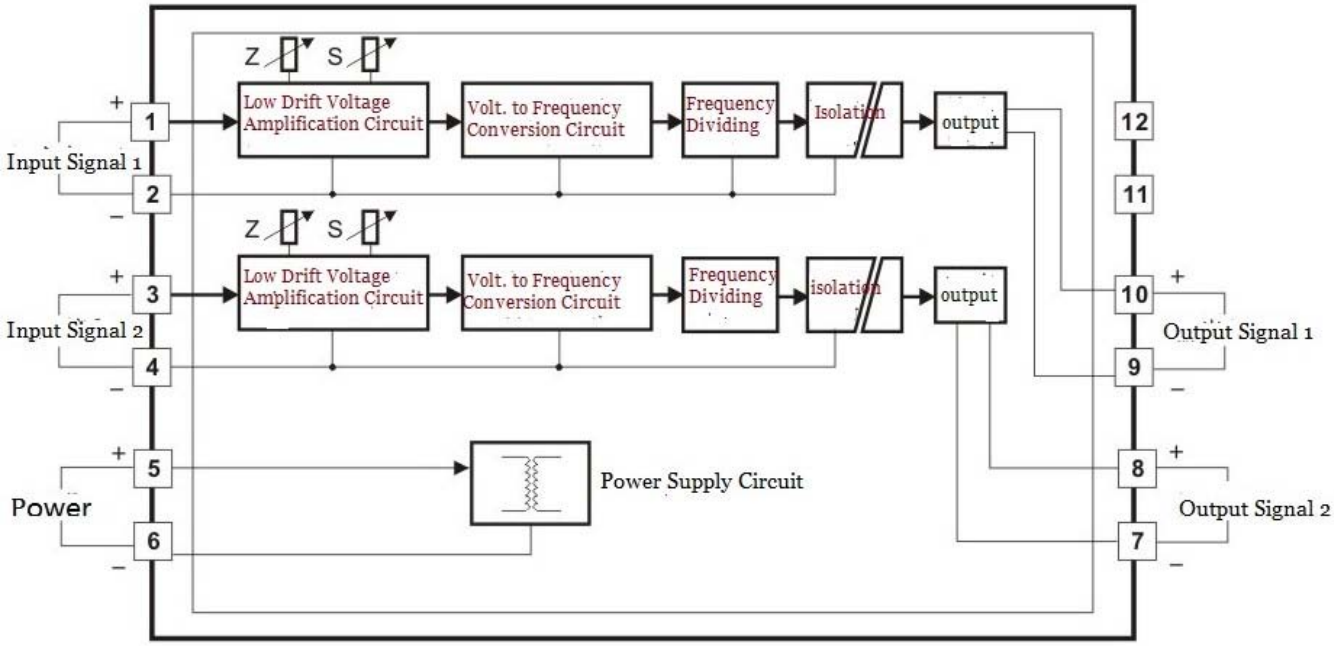
General Parameter:

Efficiency ---------- 0.1%/0.2%	Isolation ---------- Signal input/output / Accessorial power supply
Accessorial power supply --------- DC5V/12V/24V	Insulated resistance ---------- ≥20MΩ
Operating Temperature ---------- -25 ~ +70℃	Comparison endurance ---------- Signal input/output/ Accessorial power supply
Operating humidity ---------- 10 ~ 90% (No condensing)	3KVDC，(50Hz/1min, leak current 1mA)
Storage temperature ---------- -45 ~ +85℃	
Storage humidity ---------- 10 ~ 95% (No condensing)	

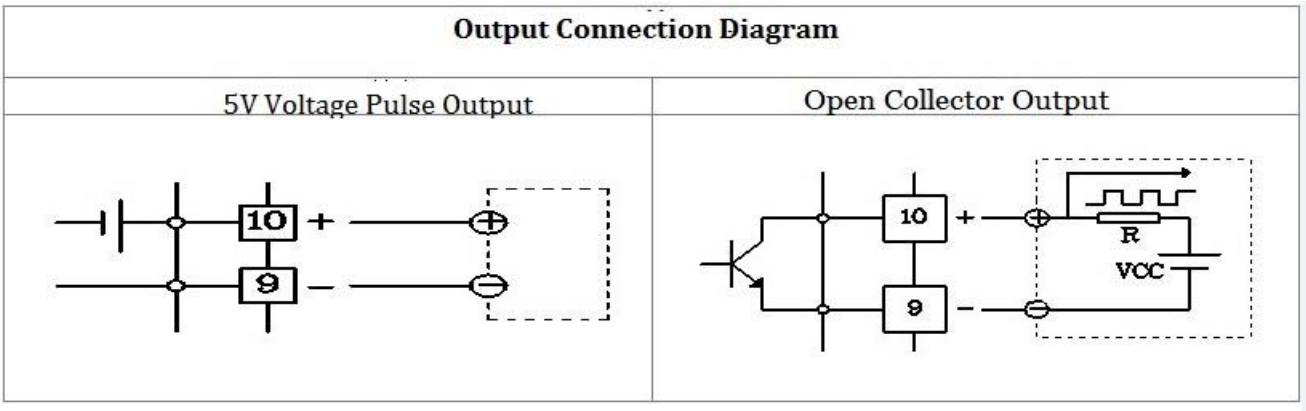
Input Parameter			
Input	**Input impedance**	**Power loss**	**Input over-loaded**
0-5V	> 100KΩ	<1W	1.2 times: Continuous
0-10V			
0-1mA	TYP：250Ω Customer chose		
0-10mA			
0-20mA			
4-20mA			

Output Parameter		
Output	**Output Parameter**	**Response**
F1: 0-5KHz(5V impulse)	High Level;3.0-5.5V Low Level:Below 0.5V Load resistance: > 250Ω	≤50mS
F2: 0-10KHz (5V impulse)		
F3: 1-5KHz(5V impulse)		
F4: 0-5KHz (collector)	DC30V，100mA（loaded）	
F5: 0-10KHz (collector)		
F6:1-5KHz (collector)		

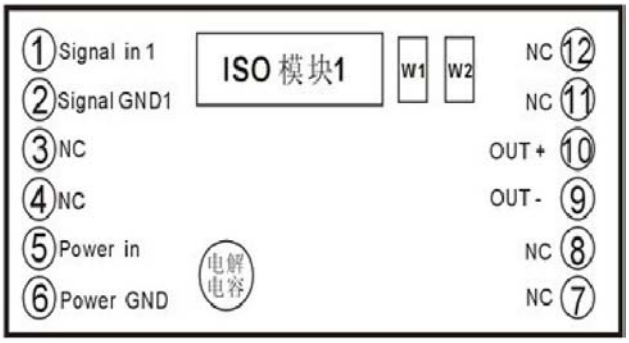
Circuit Diagram:



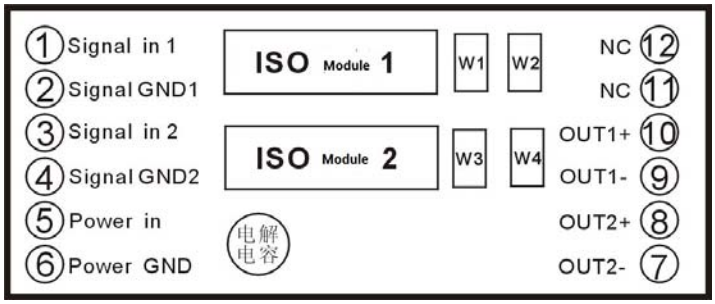
Output Connection Diagram



The Modules with Gain/Zero Adjustment:



W1: the gain adjustment resistance to adjust output precision

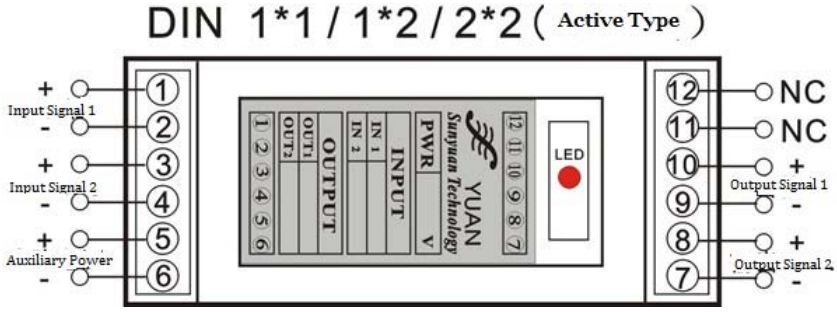


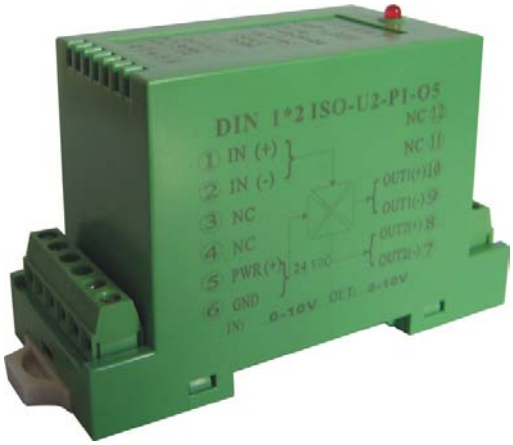
W1: the gain adjustment resistance to adjust output precision
W2: adust Zero precision

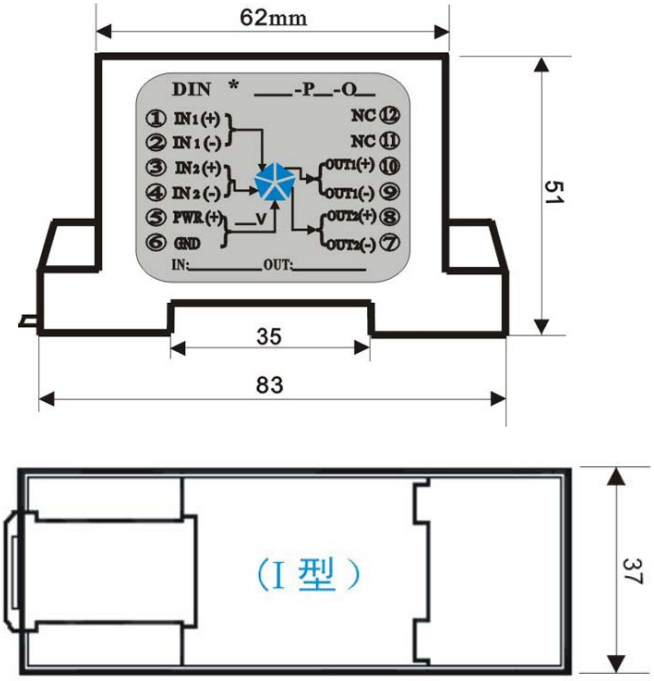
DIN □X□ External View and Dimension

Pin	PIN Decription	
1	Signal in 1	Signal Input 1 +
2	Signal GND	Signal Input1-
3	Signal in 2	Signal Input 2 +
4	Signal GND	Signal Input 2 -
5	Power in	Auxiliary Power +
6	Power GND	Auxiliary Power -
7	NC;	Null
8	NC;	Null
9	Out -1	Signal Output 1-
10	Out+1	Signal Output 1+
11	Out -2	Signal Output 2-
12	Out+2	Signal Output 2+

***Brand:** SUNAYUAN SZ







Unit:mm