

DIN 1X1 Rail-mounted voltage(current) signal transducer



Characteristic:

- Efficiency grade: 0.1/0.2/0.5
- International standard signal input: 0-5V/0-10V/1-5V, 0-10mA/0-20mA/4-20mA
- Output internal signal with high load capability: 5V/0-10V/1-5V,0-10mA/0-20mA/4-20mA and so on
- Extremely high linearity in whole process (Nonlinearity<2%)

Model and Description:

DIN 1X1 ISO- U(A)□- P□- O□

Input rated voltage (or current)	Accessorial power supply P	Output
U1: 0-5V	P1: DC24V	O1: 4-20mA
U2: 0-10V	P2: DC12V	O2: 0-20mA
U3: Customer choose	P3: DC5V	O3: 4-12-20mA
A1: 0-1mA	P4: DC15V	O4: 0-5V
A2: 0-10mA	P5: Customer choose	O5: 0-10V
A3: 0-20mA		O6: 1-5V
A4: 4-20mA		O7: Customer choose
A5: Customer choose		

Example:

Eg1: input: 0-5V	Accessorial power supply: 24VDC	Output : 4-20mA	Model: DIN 1X1 ISO-U1-P1-O1
Eg2: output: 4-20mA	Accessorial power supply: 24VDC	Output: 4-20mA	Model: DIN 1X1 ISO-A4-P1-O1

General Parameter:

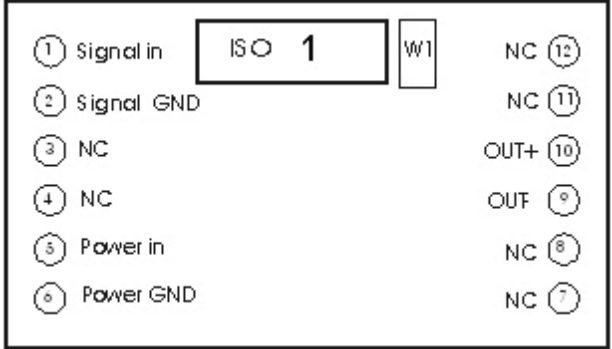
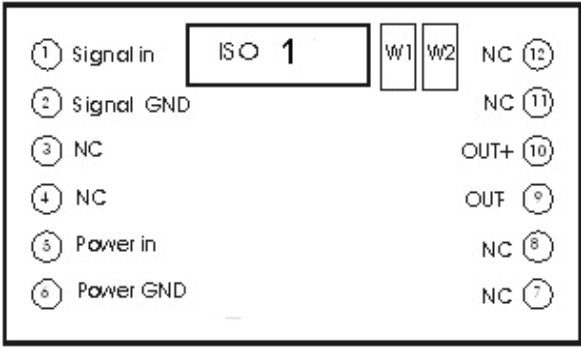
Efficiency ----- 0.1% , 0.2% , 0.5%	Isolation ----- Signal input/output / Accessorial power supply
Accessorial power supply ----- DC5V、12V、24V, ±10%	Insulated resistance ----- ≥20MΩ
Operating Temperature ----- -25 ~ +70℃	Comparison endurance----- Signal input/output/ Accessorial power supply 3KVDC, (50Hz/1min, leak current 1mA)
Operating humidity ----- 10 ~ 90% (No condensing)	
Storage temperature ----- -45 ~ +85℃	Endure impaction voltage ----- 3KV, 1.2/50us(Peak)
Storage humidity ----- 10 ~ 95% (No condensing)	

Input Parameter				Output Parameter		
Output terms	Input impedance	Power loss	Input over-loaded	Output terms	Output over-loaded capability	Response
0-5V	≥300KΩ	Vout < 0.3W	2.0 times: Continuous	4-20mA	Loaded resistance ≤350Ω	≤1mS
0-10V				0-20mA		
0-1mA	TYP: 250Ω Customer chose	Iout < 0.75W	1.5 times: Continuous 3.0 times: 1S		≥2KΩ	
0-10mA				0-5V		
0-20mA				0-10V		
4-20mA				1-5V		

DIN 1X1 Inner Structure:

SUNYUAN signal Isolation Transmitter adopts ISO-U□-P□-O□ series or ISO-A□-P□-O□ series interface IC, the adjustable resistance installed on the PCB board can be used to adjust or revise the zero precision and output precision. Dimension of the PCB board: length * width 79.5*32.5(mm).

Accessories installed on the PCB board and function figure:

Only need products to adjust gain e.g.: DIN 1X1 ISO-U2-P1-O5	Need products to adjust gain and zero e.g.: DIN 1X1 ISO-U2-P1-O1
<p>Figure 1</p> 	<p>Figure 2</p> 
<p>W1 are resistance to adjust output precision</p>	<p>W1 are resistance to adjust output precision; W2 are used to adjust zero precision</p>

DIN 1X1 series physical dimension:

Pin	Function	
1	Signal in	Signal in +
2	Signal GND	Signal in -
3	NC;	NC
4	NC;	NC
5	Power in	Accessorial power supply+
6	Power GND	Accessorial power supply+
7	NC;	NC
8	NC;	NC
9	Out-	Signal out -
10	Out+	Signal out +
11	NC;	NC
12	NC;	NC

