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:

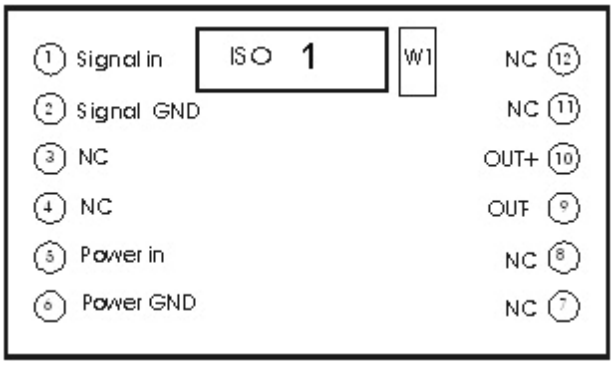
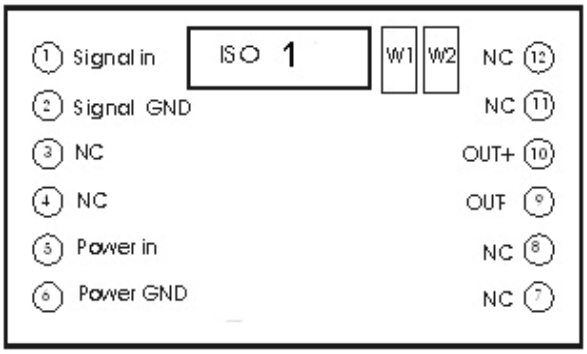
Efficiency ---------- 0.1% ， 0.2% ， 0.5%	Isolation ---------- Signal input/output / Accessorial power supply
Accessorial power supply ---------- DC5V、12V、24V，±10%	Insulated resistance ---------- ≥20MΩ
Operating Temperature ---------- -25 ~ +70℃	Comparison endurance---------- Signal input/output/ Accessorial 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 Iout <0.75W	2.0 times: Continuous	4-20mA	Loaded resistance ≤350Ω	≤1mS
0-10V				0-20mA		
0-1mA	TYP：250Ω Customer chose		1.5 times: Continuous 3.0 times：1S			
0-10mA				0-5V	≥2KΩ	
0-20mA				0-10V		
4-20mA				1-5V		

DIN 1X1 Inner Structure:

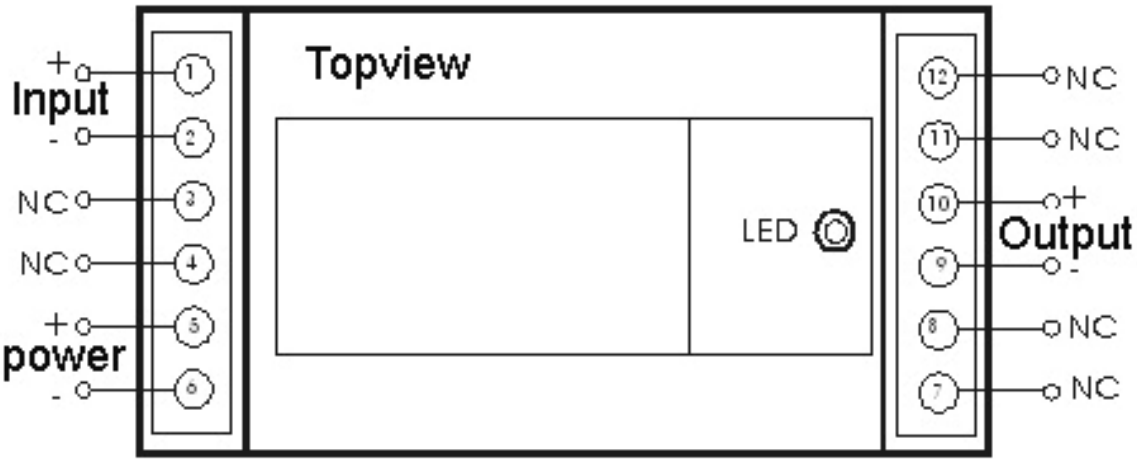
SUNYUAN signal Isolation Transmitter adopts ISO-U□-P□-O□series or ISO-A□-P□-O□ series interface IC，the adjustable resistance installed on the PCB board can be used to adjust or revise the zero precision and output precision。Dimension of the PCB board：length * width 79.5*32.5(mm).

Accessories installed on the PCB boar 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
Figure 1	Figure 2
	
W1 are resistance to adjust output precision	**W1 are resistance to adjust output precision；W2 are used to adjust zero precision**

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



Front view	Bottom view