

Dual input dual output (DIN 2X2) analog signal isolation transmitter



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 2X2 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:

E.g.: input 1 : 0-5V	Input 2: 0-5V	Accessorial power supply: 24V	Output 1 : 4-20mA	Output 2 : 4-20mA	Model : DIN2X2	ISO-U1-P1-O1
E.g. : input 1 : 4-20mA	Input 2 : 4-20mA	Accessorial power supply: 24V	Output 1 : 4-20mA	Output 2 : 4-20mA	Model : DIN2X2	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 <1W	2.0 times: Continuous	4-20mA	Loaded resistance ≤650Ω	≤50mS
0-10V				0-20mA		
0-1mA						
0-10mA	TYP: 250Ω Customer chose		1.5 times: Continuous	0-5V	≥1KΩ	
0-20mA			3.0 times: 1S	0-10V		
4-20mA				1-5V		

DIN 2X2 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 2X2 ISO-U2-P1-O5	Need products to adjust gain and zero e.g.: DIN 2X2 ISO-U2-P1-O1
图 1	图 2
W1、W2 are resistance to adjust output precision	W1、W2 are resistance to adjust output precision; W3、W4 are used to adjust zero precision

DIN 2X2 series physical dimension:

Pin	Function	
1	Signal in1	Signal1 in +
2	Signal GND1	Signal1 in -
3	Signal in2	Signal2 in +
4	Signal GND2	Signal2 in -
5	Power in	Accessorial power supply+
6	Power GND	Accessorial power supply-
7	Out2-	Signal2 out -
8	Out2+	Signal2 out +
9	Out1-	Signal1 out -
10	Out1+	Signal1 out +
11	NC;	NC
12	NC;	NC

