

***Nimbus Signal Isolator (Choice as per your requirement)***

**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%)

**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°C	Comparison endurance ----- Signal input/output/ Accessorial power supply  3KVDC, (50Hz/1min, leak current 1mA)
Operating humidity----- 10 ~ 90% (Nocondensing)	
Storage temperature-----45 ~ +85°C	Endure impaction voltage----- 3KV, 1.2/50us(peak)
Storage humidity----- 10 ~ 95% (No condensing)	

## Input Parameter

Input terms	Input impedance	Power loss	Input over-loaded
0-5V	$\geq 300K\Omega$	Vout < 0.3W Iout < 1W	2.0 times: Continuous
0-10V			1.5 times: Continuous
0-1mA	TYP: 250 $\Omega$  Customer chose		3.0 times: 1S
0-10mA			
0-20mA			
4-20mA			

## Output Parameter

Output terms	Output over-loaded	Response
4-20mA	Loaded resistance $\leq 650\Omega$	$\leq 50mS$
0-20mA		
0-5V	$\geq 1K\Omega$	
0-10V		
1-5V		

## Model and Description:

DIN 1X1 ISO- U(A)<sub>□</sub> - P<sub>□</sub> - O<sub>□</sub>

Input rated (voltage or current)	Accessorial power supply	Output
U1: 0 to 5VDC	P1: 24VDC	O1: 4 to 20mA
U2: 0 to 10VDC	P2: 12VDC	O2: 0 to 20mA
U3: Customer Choose	P3: 5VDC	O3: 4-12-20mA
A1: 0-1mA	P4: 15VDC	O4: 0 to 5VDC
A2: 0 to 10mA		O5: 0 to 10VDC
A3: 0 to 20mA		O6: 1 to 5VDC
A4: 4 to 20mA		

**Note** We are design Signal Isolator as per your requirement

## Example:

Eg1: input: 4-20mA	Accessorial power supply: 24VDC	Output: 4-20mA		Model: DIN 1X1 ISO-A4-P1-O1
Eg2: input: 4-20mA	Accessorial power supply: 24VDC	Output: 0-10VDC		Model: DIN 1X1 ISO-A4-P1-O5
Eg3: input: 4-20mA	Accessorial power supply: 24VDC	Output: 0-5VDC		Model: DIN 1X1 ISO-A4-P1-O4
Eg4: input: 0-5VDC	Accessorial power supply: 24VDC	Output: 4-20mA		Model: DIN 1X1 ISO-U1-P1-O1
Eg5: input: 0-10VDC	Accessorial power supply: 24VDC	Output: 4-20mA		Model: DIN 1X1 ISO-U2-P1-O1
Eg6: input: 0-10VDC	Accessorial power supply: 24VDC	Output: 0-10VDC		Model: DIN 1X1 ISO-U2-P1-O5
Eg7: input: 4-20mA	Accessorial power supply: 24VDC	Output1: 0-10VDC	Output2: 0-10VDC	Model: DIN 1X1 ISO-A4-P1-O5
Eg8: input: 0-10VDC	Accessorial power supply: 24VDC	Output1: 4-20mA	Output2: 4-20mA	Model: DIN 1X1 ISO-U2-P1-O1

## DIN 1X1 inner structure-

1 Input -1 Output



1 Input - 2Output



4 Input - 4 Output



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