



DIN RAIL MOUNTED SIGNAL ISOLATOR, Signal Converter

— 1 INPUT 1 OUTPUT, 1-2 INPUT 2 OUTPUTS —

4-20mA, 0-10mA, 0-5VDC, 1-5VDC, 0-10VDC

Model No.: MSC80A



Ver2.0

General Specifications

GS 19A16D01-01EN

ANALOG SIGNAL ISOLATOR SIGNAL CONVERTER

MSC80A

Overview

MSC80A DIN Mounted Analog Signal Isolator, Signal Converter

Current, voltage input, with input-output-power isolated, transmitting the signal of transmitter as analog signal output to various instruments or DCS, PLC etc control systems.

Feature

- 1 input 1 output, 1 input 2 outputs, 2 inputs 2 outputs
- Power distributed to transmitter: 19-25VDC \leq 30mA
- Input /Output: 4-20mA, 0-20mA, 0-5VDC, 1-5VDC, 0-10VDC
- Transmission accuracy (20°C): \pm 0.15%FS
- Temperature shift: 0.0075%FS/°C
- Power-Input-Output isolation: 2KVrms, 1min, 50HZ
- Standard 35mm Rail Installation with pluggable terminals
- Size: 121.2Xx108x13mm
- Independent power supply :20-32VDC

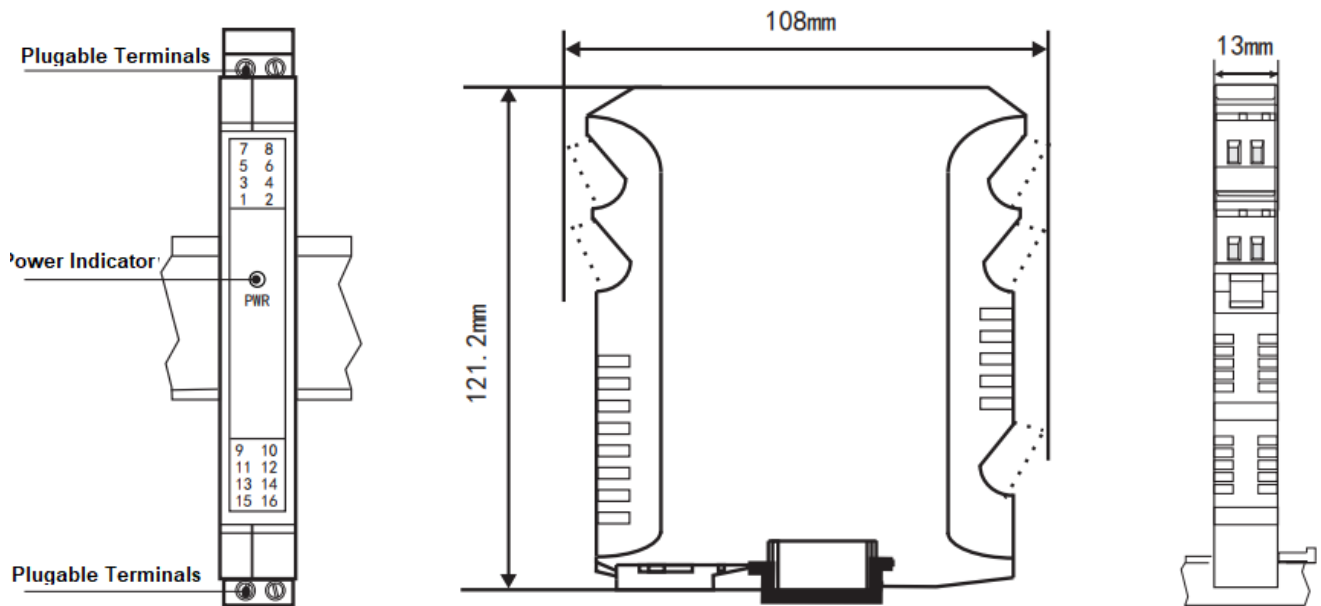
Specification

Type	1 input 1 output, 1 /input 2 outputs	Accuracy	\pm 0.15%FS (20°C)
	Isolated power distributed for transmitter	Temperature shift	0.0075%/°C
Input		Isolated ability	Input-output-power 2KV, 1min, 50Hz
Input signal	4-20mA, 0-20mA; 1-5V, 0-5V, 0-10VDC	Insulation resistance	Input-output-power \geq 100M Ω /500VDC
Input impedance	\leq 50 Ω when current mA input; \geq 250K Ω when voltage VDC put	Response time:	<2ms
Distributed power	19-25VDC, \leq 30mA	Power supply	20-32VDC; 24VDC default
Max. Input Value	\leq 30mA, \leq 10.5V	Consumption	<0.8W(1 output); <1.0W (2 outputs)
Output		Consumption (distributed)	<1.5W(1 output); <2.6W (2 outputs)
Output signal	4-20mA, 0-20mA; 1-5V, 0-5V, 0-10VDC	Case material	PC
Load resistance when mA input	\leq 400 Ω when 4-20mA, 0-20mA \geq 250k Ω when 0-5V, 1-5VDC \geq 500k Ω when 010VDC	Cable type	cable in cross section in 0.5 to 2.5mm ²
Load resistance when VDC input	\leq 400 Ω when 4-20mA, 0-20mA \geq 20k Ω when 0-5V, 1-5V, 0-10VDC	EMC	GB/T18268 (IEC61326-1)
		IP protection	IP20
		Size/N.W.	121.2Xx108x13mm/0.13KG
		Working T&H	-20 to 60°C/25% to 85%RH
		Storage temperature	40 to 80°C



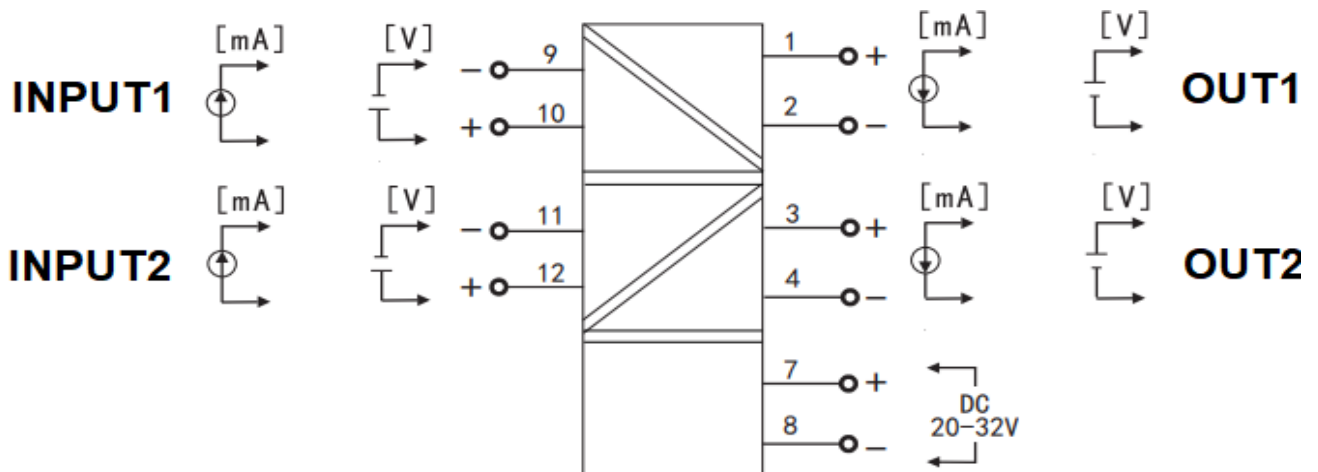
MSC80A Analog Signal Isolator
Signal Converter
DIN Rail Mounting

Size (mm)

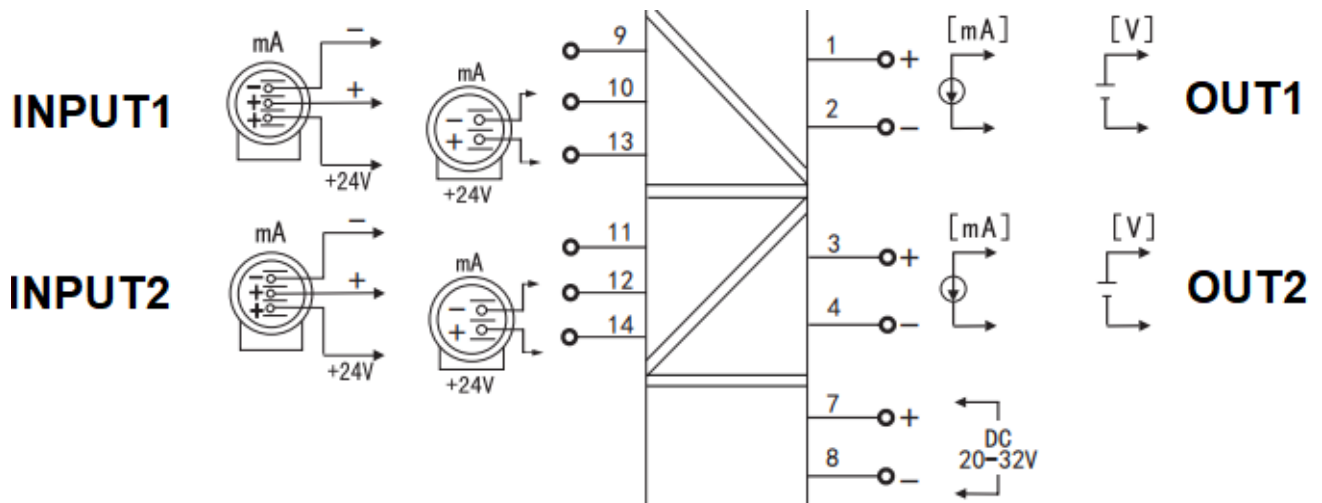


Diagram

Signal isolator without distributed power supply for transmitter



Isolated signal isolator with distributed power supply for transmitter (only 4-20mA input)



Order Code

MSC80A: DIN Rail Mount Analog Signal Isolator							
Order Code: E.g.: MSC80A-N12-1N11							Description
MSC80A	-X	-X	X	X	X	X	MSC80A Universal Analog Signal Isolator, Signal converter
Type	-N						Signal isolator without distrusted power supply for transmitter
	-P						Isolated distributed power supply for transmitter(4-20mAinput)
Input-Output Numbers	11						1 Input 1 output
	12						1 input 2 output
	22						2 Input 2 Output
Input 1	-1						4-20mA(default)
	-3						0-20mA
	-4						0-5VDC
	-5						1-5VDC
	-6						0-10VDC
Input 2	N						None
	1						4-20mA (default)
	3						0-20mA
	4						0-5VDC
	5						1-5VDC
	6						0-10VDC
OUT1	1						4-20mA (default)
	3						0-20mA
	4						0-5VDC
	5						1-5VDC
	6						0-10VDC
	7						2-10VDC
OUT 2	N						None
	1						4-20mA (default)
	3						0-20mA
	4						0-5VDC
	5						1-5VDC
	6						0-10VDC
	7						2-10VDC

Notes:

1)The signal input can be converted as the relative output signal with same ratio accordingly. For example:

When 4-20ma input, output can be 4-20ma or 1-5VDC or 2-10VDC;

When 0-20ma input, output can be 0-20mA, 0-5VDC, 0-10VDC;

When 1-5V input, output can be 1-5VDD, 2-10VDC, 4-20mA;

When 0-5Vdc input, output can be 1-5VDC or 2-10VDC or 0-5VDC or 0-10VDC or 4-20mA or 0-20mA

When 0-10Vdc input, output can be 1-5VDC or 2-10VDC or 0-5VDC, 0-10VDC or 4-20mA or 0-20mA

*Please confirm the exact input and output signal with order code when order for correct production

2) When 0-5vdc, 1-5vdc, 0-10vdc output, Load resistance is $\geq 20\text{Kohm}$

3)When order code P, input signal can be 4-20ma or 0-20ma only, output will be relative as above.

4)When order code P, there are two ways wiring for sensor including N and P ,u can choose the correct connection as required



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