

Two wires 4-20mA current loop powered Isolator

Part No.: IAP1001L (Input:4-20ma output:4-20ma loop powered)



Features:

- >>Current loop powered with over-current protection
- >>Accuracy level (0.1% F.S.)
- >>High linearity (0.3% F.S.)
- >>3000VDC isolation (input/output)
- >>Low temperature drift (35PPM / deg. C)
- >>operating temperature range: -25~71deg.C
- >>Small size, standard SIP12 package
- >>Loop power supply:10-30V

Application:

- >>PLC,DCS analog signal isolation, collecting
- >>4-20mA signal isolation and transmission
- >>Ground isolation and interference suppression
- >>Signal long-term distortion-free transmission
- >>Instrument signal transceiver and control
- >>Power control, medical equipment isolation barrier

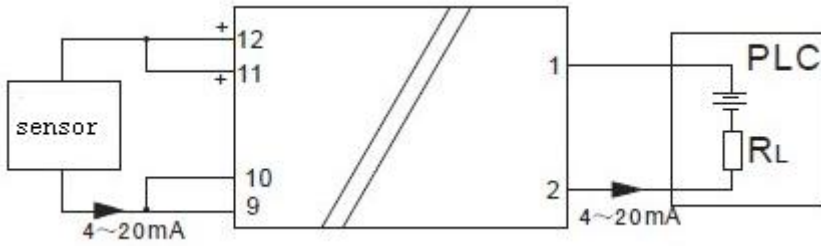
WAYJUN IAP1001L isolated transmitter, is a two wires loop powered isolation module. Supply power to pre-stage two wires systems by stage feed and receives the two wires device 4-20ma current signal. After the module isolation, output 4-20mA signal. This product solves the current signal isolation dependence on the power supply problem, achieve the standard signal 4-20mA isolated transmission.

General Parameter:

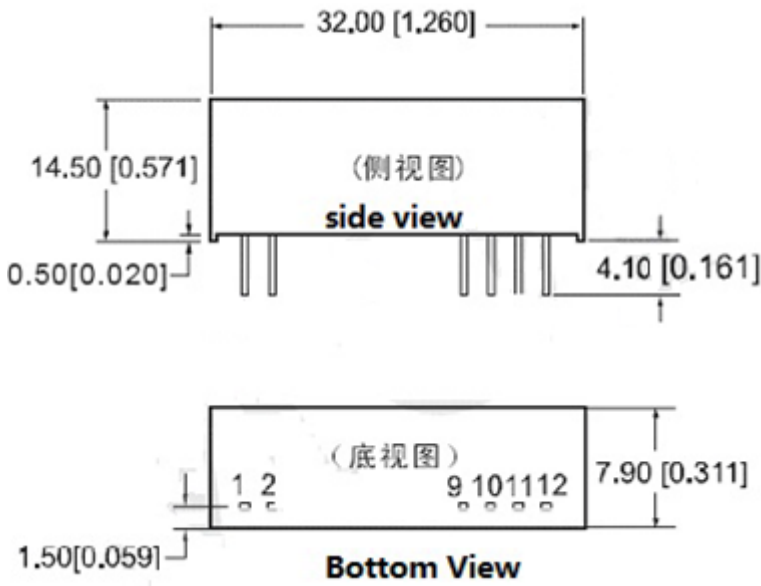
Parameter	Condition	Min	Typ.	Max	Unit
Isolation	Input/output: 3000VDC (1 min., leak current<1mA, Humidity<70%)				
Temperature Drift	0.0035%F.S./°C (-25°C~+71 °C)				
Output Load capability	$RL \leq (U_s - 5) / 0.02$ (U_s : loop power supply)				
Zero offset	0.3%F.S.				
Gain Error	0.3%F.S.				
Insulation resistance	100MΩ, 500VDC (Between input and output)				
Input Signal	4-20mA				
Input Over-voltage	$\leq 30mA$ (over-current Protection)				
Input Voltage Drop-out	Type: 5V(@input = 20mA)				
Output Signal	4-20mA				
Output Load Regulation	0.05%F.S./100Ω				
Operation temperature	-25° C ~ +71° C				
Storage temperature	-50° C ~ +105° C				
Weight	8-10g				

Note: All specifications measured at TA=25° C, humidity<75%, nominal input voltage and rated output load unless otherwise specified.

Application Diagram:

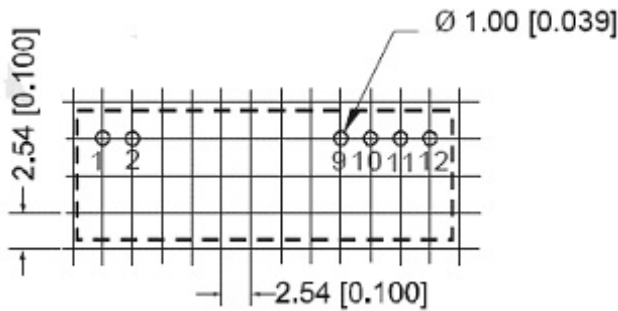


Mechanical Dimensions: (unit: mm)



FOOTPRINT DETAILS	
Pin	Function
1(Vin+)	Power input
2(Io)	Current output
9,10(Iin)	Current input
11,12(Vout)	Power output

Printed Board:



* Specifications subject to change without notice