

ISO series ISO1003 3000VDC Isolation 4-20mA current loop isolation interface IC DIP24 Pin package



ISO 1003 choose type:

ISO- 1003- Input  - Output

Input rated voltage (or current)	Output
U1: 0-75mV	Two wires 4-20mA
U2: 0-100mV	
U3: 0-5V	
U4: 0-10V	
U5: 0-2.5V	
A1: 0-1mA	
A2: 0~10mA	

Feature:

- Low cost,small volume,standard DIP24 Pin package
- Signal input /output 3000VDC isolation
- Current supplied by 4-20mA current loop, voltage range:12-32VDC
- Low impedance signal input
- 0-5V input,100Ω or 250Ω or 500Ω resistance bypass series-wound circuits
- provide 5V/3.5mA isolated power supply for user and 2.5V norm power supply in input pot.
- High linearity(Nonlinearity <0.2%, Distortion<0.2%)
- Industrial level temperature(-45~+85℃)

Application:

- Analog signal data acquisition and isolation
- 4-20mA signal transmit
- Industrial process signal transform
- Ground interference control
- No distortion in long-distance signal transmission
- Electric supervision、 medical instrument isolated safe bar
- Instrument signal acquisition

Description:

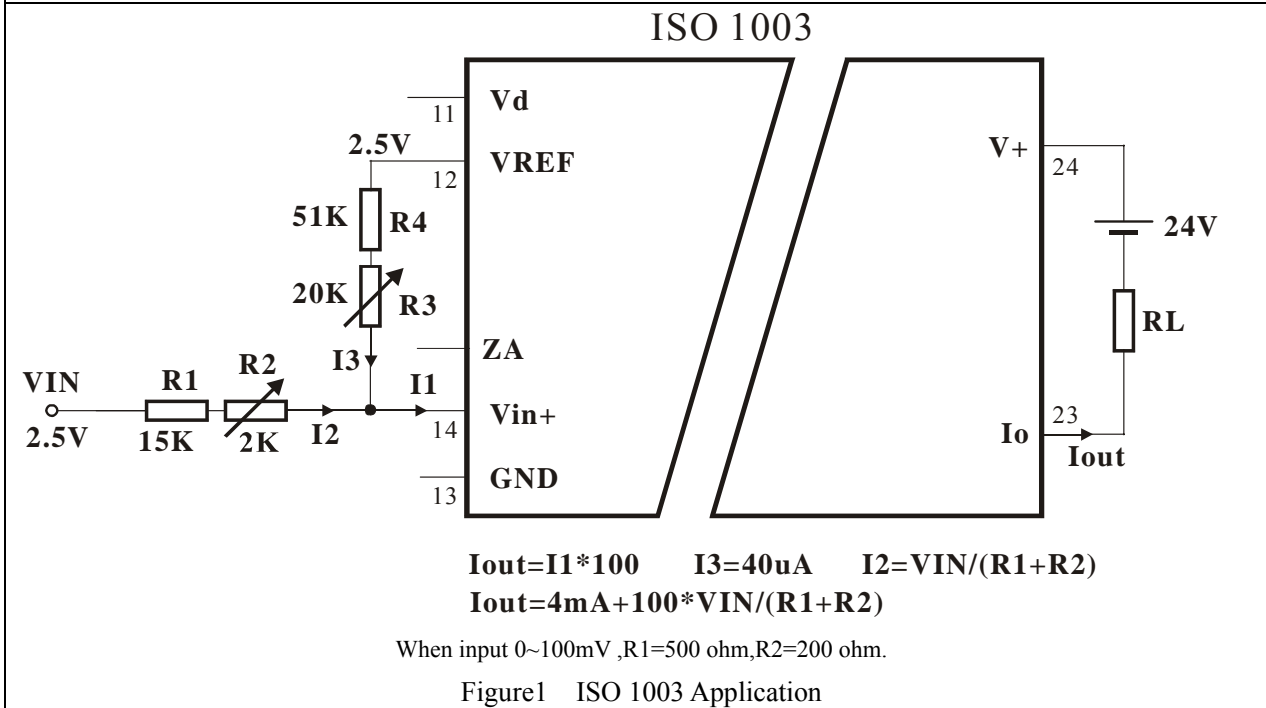
ISO 1003 two wires voltage isolated transmitter is 4-20mA current loop isolated interface module,its internal contains current signal modems circuit,electromagnetism change circuit and demodulation circuit.The module 4-20mA supply 12~32VDC power supply.Input voltage signal is 0~75mVDC or higher.

General parameter:

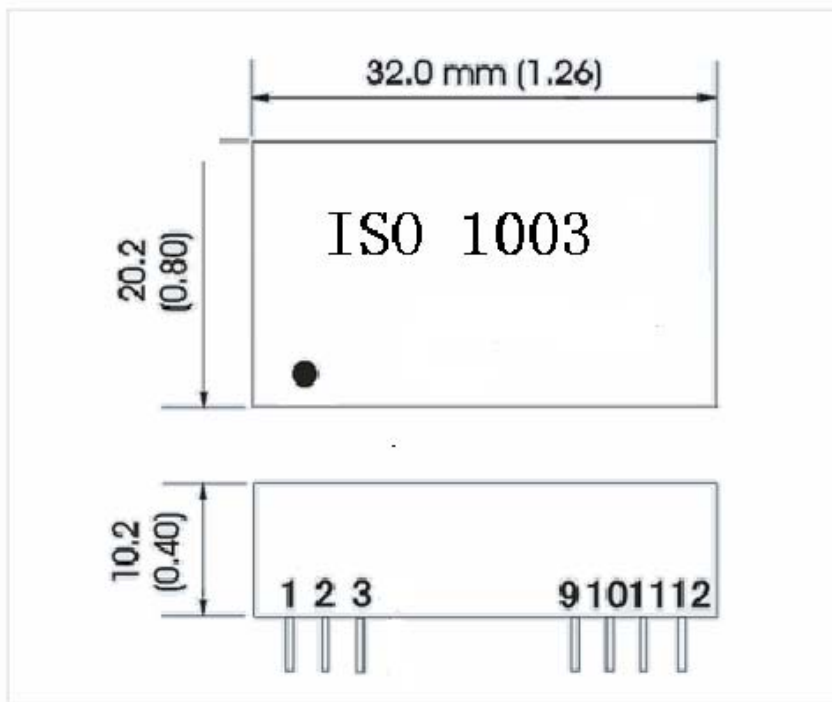
Parameter	Test Condition	MIN	TYP	MAX	Unit
Isolation Voltage	AC,50Hz,1min	1500	2500		V(rms)
Norm Voltage	24V power (Vref)	2.475	2.495	2.515	VDC
Norm Voltage Current	24V power (Iref)	100			μ A
Precision	RL=250Ω		0.5	0.6	%FSR
Signal Output	RL=250Ω	4	4~20	20	mA
Vd Voltage Output	24V power (Vref)	4.8	5.0	5.2	VDC
Vd Load Capability	24V power (Iref)	2			mA
Power Range	V+	9 16.5	24 24	32 36	V
Operating Temperature		-40		85	°C
Storage Temperature		-55		125	°C

Application 1:

Input: 0~2.5V Output: 4~20mA(two wires current loop)

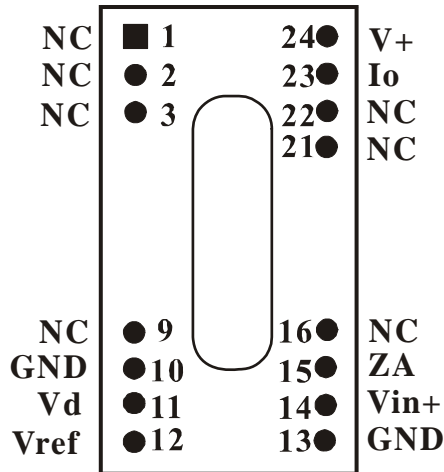


Physical Dimensions and PCB Dimensions:



Pin Description:

<plan form>



PIN Description:

1-3	9	10	11	12	13	14	15	16	21	22	23	24
NC	NC	GND	VD	VREF	GND	VIN+	ZA	NC	NC	NC	IO	V+
NC	NC	Ground	Vin	Vin	Ground	Vin	"ZER O"	NC	NC	NC	Io	Vout 24V