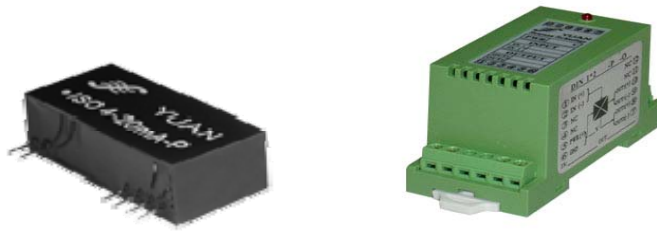


ISO series ISO 4-20mA-P 3KVDC isolation 4-20mA Current loop isolation regulator SIP12 package



#### FEATURE:

- No external instrument needed for power supply
- (6—24V) Wide range of input voltage, low input impedance
- 4-20mA high accuracy(0.1,0.2,0.5)
- High linearity (Nonlinearity<0.2%)
- Low cost, small size, standard SIP12 package
- 4-20mA signal input/Output, 3000VAC isolated voltage
- Industrial temperature (-45—+85 °C)
- Frequency response(small signal bandwidth):2KHz(Io=20mA)

#### APPLICATION:

- PLC,DCS analog signal data acquisition and isolation
- Industrial process 4-20mA signal isolation
- Ground-loop elimination
- No distortion in long distance signal transmission
- Instrument signal acquisition
- Electric supervision , medical application and Isolated safe bar

#### DESCRIPTION:

ISO 4-20mA Current Loop Isolation Interface IC provides signal receive and transmittal on a single chip. The ceramic hermetic hybrid package contains an electromagnetic coupled converter and current modulate. The very low input equivalent impedance allows the input voltage can be up to an ultra-wide range (7.5V~32V), so that it is able to meet the requirements for no distortion in long-distance signal transmission under the circumstance of no outside connecting power. The internal ceramic PCB, printed impedance and new isolation technologies allow the IC for the 3KVAC insulated voltage and meets the industrial level for the extremely poor temperature, humidity and shaking conditions.

#### ABSOLUTE MAXIMUM RATINGS:

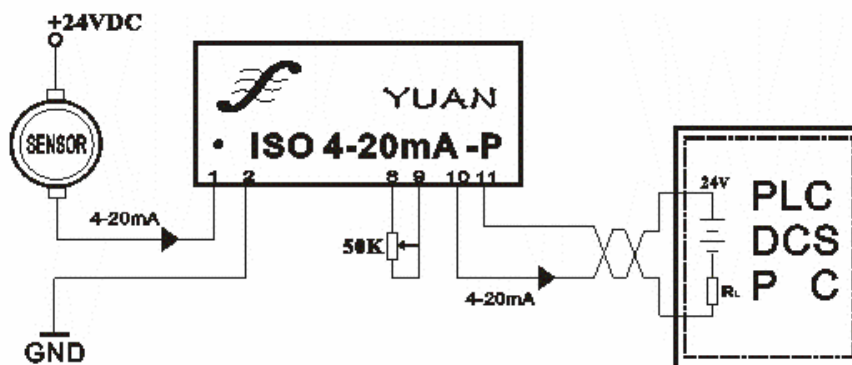
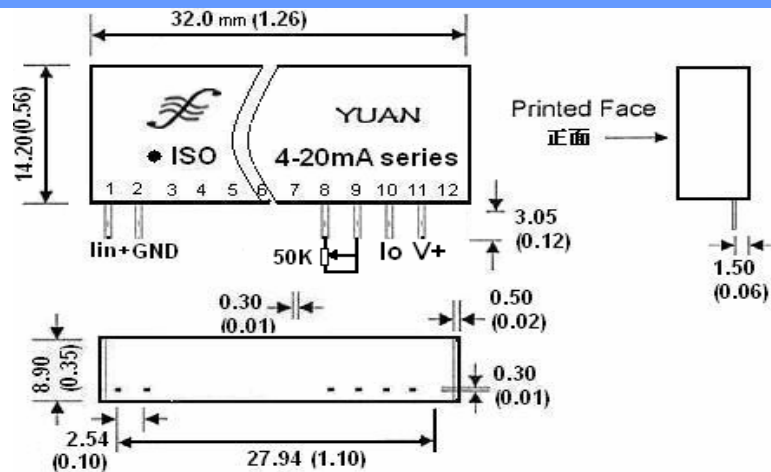
Continuous Isolation Voltage	3000VDC
Vin	36V
Junction Temperature	+85°C
Storage Temperature	+150°C
Lead Temperature	+300°C
Output Short to Common	Continuous

If input value is over above range, it may cause permanent damage.

**GENERAL PARAMETER:**

Parameter	Condition	Min	Typ	Max	Unit
Isolation voltage AC, 50Hz		3000			VDC
Rated continuous	10S				VDC
Insulated impedance			$10^{12} \parallel 1$		$\Omega \parallel \text{Pf}$
Leakage current	240Vrms, 50Hz			0.5	$\mu\text{A}$
Temperature Drift			$\pm 50$	$\pm 100$	PPm/ $^{\circ}\text{C}$
Nonlinearity			$\pm 0.2$	$\pm 0.5$	%FSK
Load capability	24VDC		750		$\Omega$
Signal input voltage range		7.5	24	36	VDC
Signal output voltage range		7.5	24	36	VDC
Output linearity range			4	24	mA
Output Current :Io		0.1		40	mA
Output signal ripple				5	mV
Frequency response (Small signal bandwidth)	Io=20mA		2		Io=20mA 2KHz

**DIMENSIONS AND PIN DESCRIPTION:**



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Specifications can be changed without notification.