

CHARACTERISTICS:

- ·Low cost,small size,standard SIP12 package
- ·Electromagnetic Isolation
- ·Signal input/output,3000VDC isolated voltage
- No external instrument needed for power supply
- -4-20mA high accuracy of current input/output (distortion<0.2%)
- -Industrial temperature (-45~+85 °C)
- ·High linearity (Nonlinearity<0.2%)
- ·Small signal bandwidth:50HZ
- ·Weld to PCB directly
- ·SIP12 Package

APPLICATION:

- ·Analog signal data acquisition and isolation
- -Isolated 4-20mA signal transmission
- ·Industrial process signal isolation
- ·Ground-loop elimination
- ·No distortion in long distance signal transmission
- ·Instrument signal acquisition
- ·Electric supervision and medical application
- ·Isolated safe bar
- ·Biomedical measurements

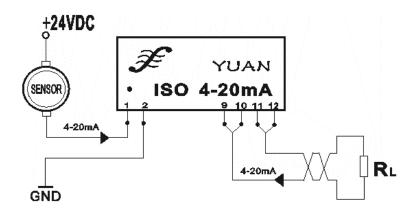
DESCRIPTION:

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 impendence allows the input voltage can be up to an ultra-wide range, 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 impendence and new isolation technologies allow the IC for the 3KVDC insulated voltage and meets the industrial level for the extremely poor temperature, humidity and shaking conditions. These specifications make the ISO 4-20mA Current Loop Isolation Interface IC very easy to use, as well as providing compact for PCB board.

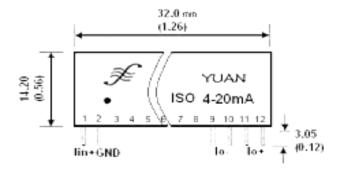
ABSOLUTE MAXIMUM RATINGS:				
Continuous Isolation Voltage	3000Vrms			
Vin	32V			
Junction Temperature	+85℃			
Storage Temperature	+150℃			
Lead Temperature	+300℃			
Output Short to Common	Continuous			

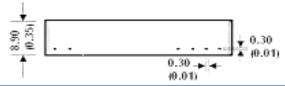
SPECIFICATIONS SPECIF						
Parameter	Condition	Min	Туре	Max	Units	
Isolation				3000	VDC	
Rated continuous voltage	108					
AC, 60Hz	240Vrms,		10 ¹² _1		Vrms	
Barrier impedance,	60Hz		0.5		_Pf	
Leakage current					uA	
Gain vs Temperature		-100	±50	+100	PPm/	
Nonlinearity		-0.2	±0.1	+0.2	%FSK	
Signal input voltage range		7.5		32	V	
Output linearity range			4	20	mA	
lo		0.1		40	mA	
Voh	lo=20mA		2		V	
Output signal ripple				5	mV	
Small signal bandwidth	lo=20mA			50	Hz	
Frequency Response				20	ms	

CONNECTION&DIMENSIONS:



ISO 4-20mA





PIN DESCRIPTION:

Pin Function	Description		
1	lin+	Signal input	
2	GND	Signal input	
3~8			
9	lo-	Signal output	
10	lo-	Signal output	
11	lo+	Signal output	
12	lo+	Signal output	

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