4-20mA CURRENT Input Super-mini Signal Conditioners



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 ℃)

·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.

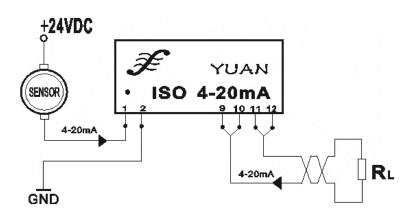
美 顺源科技 SHENZHEN SUNYUAN TECHNOLOGY CO., LTD. YUAN 4-20mA Dual Loop Signal Isolation Distributor ISO Series

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

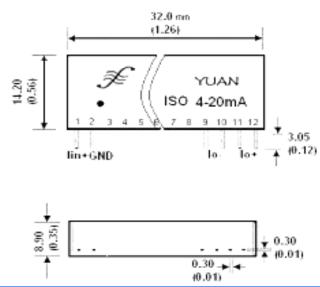
SPECIFICATIONS

Parameter	Condition	Min	Туре	Max	Units
Isolation				3000	VDC
Rated continuous voltage	10S				
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:







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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