

2-in-2-out two-wire passive 4-20mA isolation conditioning transmitter

Features:

- ◆Low cost, small size, meet UL94-V0 flame retardant standard
- ◆International standard DIN35 rail mounting
- Dual input dual output
- ◆ Isolation voltage can be up to 3000VDC/60s between input output and channels
- 4-20mA current input and output, high accuracy(distortion <0.2%);
- Industrial class temperature range: $-45 \sim +85$ °C
- ◆ High accuracy(0.1% F.S.0.2% F.S);
- Full scale high linearity (non-linearity < 0.2%)
- shengoa, ◆ Working without external power supply, Two-wire distribution loop output
- ◆ Wide range voltage input (7.5-32VDC)

Applications:

- Analog signal data isolation, acquisition
- ◆Industrial field signal isolation
- Long-distance lossless transmission
- Analog signal ground interference suppression
- ◆4-20mA isolated signal transmission
- ◆Instrumentation and sensor signal transceiver
- ◆ To overcome EMC interference between field devices
- Power monitoring, medical equipment, isolation barrier

General Description:

JieShengda Technology JSD TAW-2002D-100L-P series isolation Transmitter is a Dual two-wire 4-20mA current output loop isolation transmitter, this isolation transmitter adopts optical isolation technology, it has better anti-jamming ability than magnetic isolation product. The isolation conditioner internal has current signal modulation and demodulation circuit, coupled converter circuits and so on. The isolation conditioner input voltage reaches the wide range (7.5-32V) by small input equivalent resistance to meet the user does not need an external power supply to realize long-distance signal lossless transmission requirement. The isolation transmitter output is design for 24VDC and sampling resistor (or load resistance) in series with the two-wire power supply loop. Matching with the current popular analog input interface board (PC), PLC, DCS, PC or other instrumentations analog input port, internal ceramic substrates, printed resistor technology and new isolation technologies make the isolation voltage up to 3000VDC and wide industrial temperature range, it is available to work in humidity, harsh vibration environments to meet industrial environmental requirements.

JieShengda Technology JSD TAW-2002D-100L-P series isolation transmitter adapts international standard DIN 35mm rail mounting, users just need to wire can be achieved Dual two-wire 4-20mA signal isolation, transmission and conversion capabilities, and to achieve signals long-distance lossless transmission..

Selection and definition list:							
JSD	TAW	1001D	100L	-P			
Company abbreviation	Isolation passive series	1-in-1-out	4-20mA/0-20mA input/output	Output circuit power supply			

Selections and definitions :



JSD TAW-2002D-100L-P Passive two-wire 4-20mA Isolation Transmitter

Selection example:

Example1: Input: 4-20mA; Output: 4-20mA; two-wire output circuit power supply, Model: JSD TAW-2002D-100-P

Example2: Input: 0-20mA; Output: 0-20mA; two-wire output circuit power supply, Model: JSD TAW-2002D-100-P

Electrical characteristics:

Signs	Item			Test Condition	Min	Тур.	Max	Units
Isolation characteristics	Isolation voltage Insulation resistance		oltage	AC50Hz(Tested for 1 minute Humidity<70%, leakage current < 1mA)		3000		V(rms)
			sistance	500VDC (input/output)		100		MΩ
Transmission characteristics	Gain drift					±100	16	ppm/°C
	Non-linearity					±0.1	±0.22	%FSR
	Output voltage range		range		7.5	24	32	VDC
	Signal inp	ut	current		4		24	mA
	Signal output current		current		4		24	mA
	Load capa	city	current	RL≤ (Us–5) /0.02 Us: Loop power supply voltage			250	Ω
	Frequency Response		onse	(Small-signal bandwidth)Io=20mA	-	2		Hz
	Signal output ripple		pple		1.	5	10	mVrms
	volt		age		_			VDC
	supply	Ром	ver loss					W
		Ran	ge		_			%
Power input	Operating Temperature		perature		-45		85	°C
characteristics	Storage temperature		erature		-55		105	°C
	Weight					70		g
	size			94.5*25.5*41			mm	

Pins function:

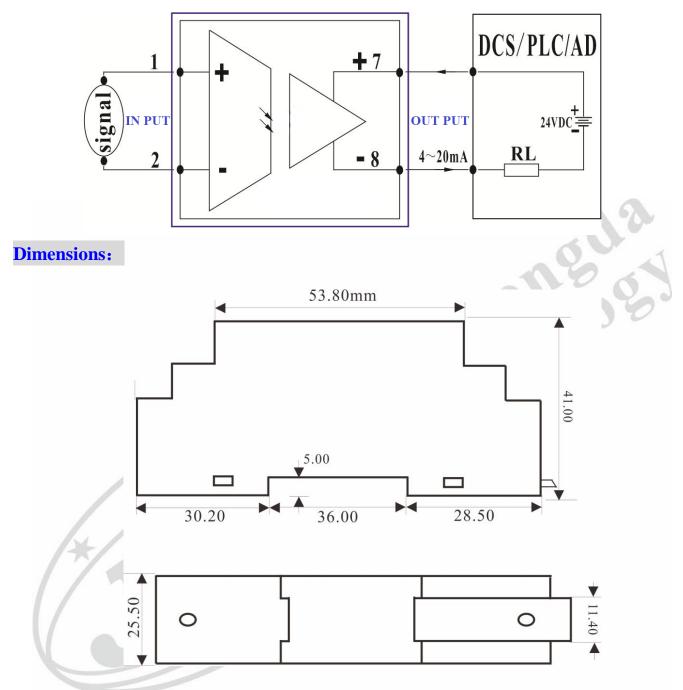
Signal output Typ.	Pin	Function Description	Pin	Function Description	Package	
Two-wire passive 4-20mA	1	Signal input +	l input + 5 NO PIN		International	
	2	Signal input -	6	NO PIN	Standard	
	3	NO PIN	7	Power+	DIN35 Rail	
	4	NO PIN	8	Signal output +	mounting	

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Wiring diagram Application:



Notes:

- 1. Please read the user manual carefully before using. If any question please contact our technical support department.
- 2. Please do not use this product in hazardous area. The power supply of this product should be 24VDC power source. It is forbidden to use 220VAC power supply. This product's layout size diagram is "mm" and "inch" as the unit, within "[]"is inch
- 3. Calculating from the date of delivery, during normal use of the product, any quality problems are free repair or replacement by Company during 3 years warranty,
- 4. To avoid invalid, or any failure, users disassemble this product is forbidden
- 5、 the product is strictly forbidden demolish without permission for not damage
- 6、All specifications measured at Ta=25 °C, humidity<75%, nominal input voltage and rated output load unless otherwise specified.
- 7. In this datasheet, all the test methods of indications are based on corporate standards.