MORNSUN

Passive Single channel Analog signal Isolation barrier (lin & lout) T1100B



APPLICATIONS

Analog signal isolation barrier, is a signal conditioner with electrical insulation between input and output, it can receive a variety of analog signal input from the field instrument, and transmit a standard output signal or user-specified special signal to the control room or DCS. The product is isolated among power supply, input and output. It is widely used in the industrial measurement systems, medical electronic equipment, electrical equipment etc. We adopt high efficiency magnetism and electricity isolated technology to achieve signal isolation, with characteristics of high output accuracy, good linearity and low temperature drift.

FEAT	JRES
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- Two-port isolation (Between input and output)
- High accuracy (0.1% F.S.)
- High linearity (0.1% F.S.)

MODEL SELECTION TXXXXB

- Isolation voltage(3000VDC/60S)
- High frequency response(15KHz)
- Low temperature drift(35PPM/°C)
- Industry class(Operation temp.: -25°C to +71°C)
- High reliability(MTBF>500,000 hours)

PRODUC	T PROGRA	M			
Part Number	Power Supply	Input	Output	Isolation Power Output	Channels
T1100B	NONE	4~20mA	4~20mA	NONE	1
					35
				1	

ELECTRICAL CHARACTERISTICS		
Power Supply Data	Power Supply	NONE
	Power Dissipation	NONE
	Power Protection	NONE
Input Data	Input Signal	4~20mA
	Overload	≤50mA
-	Voltage Drop	<3V(20mA)
Output Data	Output Signal	4~20mA
	Load	≤300Ω(At Output =20mA)
	Load Regulation	<0.05% meas.val./100Ω

TRANSMISSION CHARACTERISTICS	
Offset	0.1%F.S.
Gain Error	0.1%F.S.
Temperature Drift	0.0035%F.S./°C (-25°C to +71°C)

ISOLATION CHARACTERISTICS	
Galvanic Isolation	Two-port isolation (Between input and output)
Isolation Voltage	3KVDC (Tested for 1minute and 1mA max, humidity < 70%)
Insulation Resistance	1000M Ω , 500VDC(Among signal input ,signal output, power supply and isolation power output)

OTHER CHARACTERISTICS	
Ambient temperature	Operation temperature:-25°C to +71°C
	Transport and Storage temperature:-40°C to +85°C
Package	35mm DIN-rail package
Safety Class	IP20(IEC60529 / EN60529)
EMC compliance	GB/T 18268(IEC61326-1)
Weight	About 60g
Application environment	No dusts, gases of fiercely vibration, impulsion or gases that may erode to the components surrounded
Noto:	1

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Package style Isolation power output Power supply Output Input

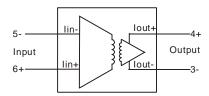
Isolation amplifier

- 1 .All specifications measured at TA=25°C, humidity<75%, nominal input voltage and rated output load unless otherwise specified.
- 2. Only typical models listed, specifications of custom product may be different. Please contact our service people directly for certain conditions.

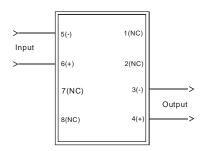
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Specifications subject to change without notice. T1100B A/0-2009 Page 1 of 2

SINGLE CHANNEL SCHEMATIC DIAGRAM



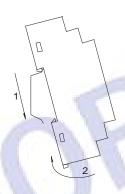
APPLICATION CIRCUIT DIAGRAM



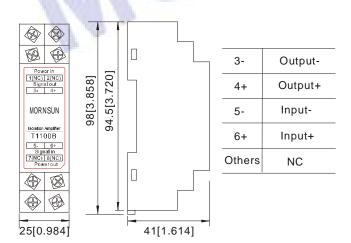
INSTALLATION

DIN35mm standard rail installation

- 1. Upside of the instrument card in the rail;
- 2. Push underside of the instrument into the rail.



PACKAGING SIZE AND TERMINAL DESCRIPTION



Note: Unit: mm[inch] General tolerances: ±0.5mm[±0.020inch]

CONNECTION

- 1. Cross section area of wiring: 0.5mm²-2.5 mm²;
- 2. Multi-strand wire, the length of bare wire is about 8mm, fixed by the M4 bolt.

APPLICATION NOTE

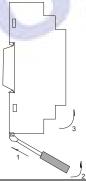
- 1. Please read the user manual carefully before using. If any questions please contact our technical support department.
- 2. Please do not use this product in hazardous area.

AFTER SERVICE

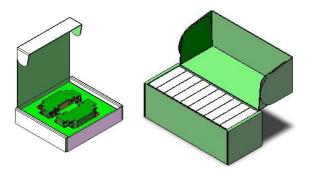
- 1. Products are carefully inspected and controlled before going out from our factory. If they operated abnormally or there were anything wrong in the inner parts, please contact with our agents near you or technical support in our company as soon as possible.
- 2. 3 years warranty since the delivery date. During the period of quality guarantee, our company will repair or change free of charge if product has any quality problem in the process of normally using.

DISASSEMBLY

- 1. Use a screwdriver (Width of edge≤6mm), cut in the metal card lock from the underside;
- 2. Boost up the screwdriver and prize the metal card lock downwards;
- 3. Pull the instrument out of the rail.



PACKAGING DIAGRAM



Inside box: L*W*H=165*155*40mm

Packaging Quantity: 2pcs Outside box: L*W*H=425*175*160mm Packaging Quantity: 20pcs