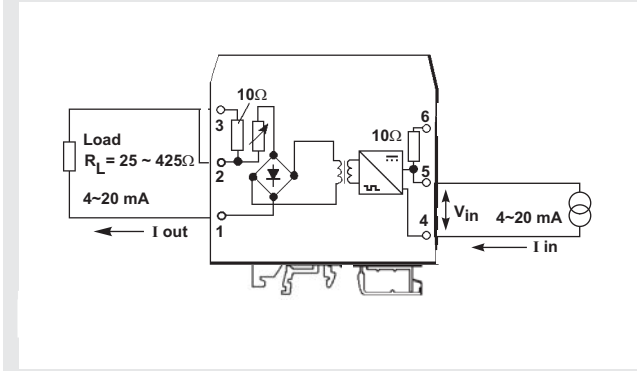




- 4 ~ 20 mA in, 4 ~ 20 mA out
- Isolation between input and output :
1.5 KV AC RMS / 1 minute,
250 V AC RMS continuous
- 0.1% transfer accuracy
- 3.7 V loop drop
- 25 ~ 425 Ω load
- DIN rail mounting
- No power supply required
- ON LED shows state



GENERAL

LP1SI is a loop powered isolator suitable for a variety of applications. It can be used, for example, to isolate the 4~20 mA current signal from a 2-wire thermocouple transmitter or temperature controller, and pass it on to a PLC or datalogger. LP1SI eliminates earth and ground loop problems and simplifies interfacing.

SPECIFICATIONS All specifications at ambient of 25 °C, unless specified otherwise

<p>INPUT</p> <p>Input current 4 ~ 20 mA DC</p> <p>Voltage drop across input terminals < 3.7 V DC with zero ohms load on output</p> <p>Reverse polarity protection Provided for current inputs</p> <p>Maximum input current 50 mA</p> <p>Over current protection 100 mA fuse on PCB</p> <p>OUTPUT</p> <p>Nominal current transfer ratio 1:1 in the range of 4~20 mA</p> <p>Permissible load resistance 25 ~ 425 ohms</p> <p>Load trim 20-turn front panel potentiometer to trim output current for specified accuracy</p> <p>ACCURACY</p> <p>Linearity & calibration ± 0.1% of span (1 out = 1 in ± 16 μA)</p> <p>Temperature coefficient of accuracy 0.01% of span per °C</p>	<p>ISOLATION</p> <p>Input/Output isolation a) 1.5 KV AC RMS, 1 minute b) 250 V AC RMS, continuous</p> <p>ENCLOSURE</p> <p>Material ABS plastic</p> <p>Dimensions 80(H) x 25(W) x 85(D) mm</p> <p>Mounting Snap on for 35 mm DIN rail to DIN 46277 ≤ 2.5 mm², AWG 14</p> <p>Connection, single / stranded wires ≤ 2.5 mm², AWG 14</p> <p>Weight < 200 grams</p> <p>Protection IP 20</p> <p>TEMPERATURE, HUMIDITY</p> <p>Ambient, storage -20 to +85 °C</p> <p>Ambient, operation -20 to +70 °C</p> <p>Relative humidity 0 ~ 95%</p>
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BEE INSTRUMENTS
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