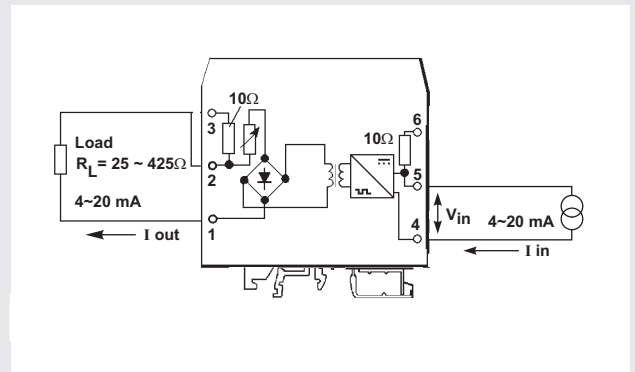




- 4 ~ 20 mA in, 4 ~ 20 mA out
- Isolation between input and output :  
1.5 KV AC RMS / 1 minute,  
250 V AC RMS continuous
- 0.1% transfer accuracy
- 3.7 V loop drop
- 25 ~ 425 Ω load
- DIN rail mounting
- No power supply required
- ON LED shows state



GENERAL

LPI 51 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. LPI 51 eliminates earth and ground loop problems and simplifies interfacing.

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

<p><b>INPUT</b></p> <p><b>Input current</b> 4 ~ 20 mA DC</p> <p><b>Voltage drop across input terminals</b> &lt; 3.7 V DC with zero ohms load on output</p> <p><b>Reverse polarity protection</b> Provided for current inputs</p> <p><b>Maximum input current</b> 50 mA</p> <p><b>Over current protection</b> 100 mA fuse on PCB</p> <p><b>OUTPUT</b></p> <p><b>Nominal current transfer ratio</b> 1:1 in the range of 4~20 mA</p> <p><b>Permissible load resistance</b> 25 ~ 425 ohms</p> <p><b>Load trim</b> 20-turn front panel potentiometer to trim output current for specified accuracy</p> <p><b>ACCURACY</b></p> <p><b>Linearity &amp; calibration</b> ± 0.1% of span (I out = I in ± 16 μA)</p> <p><b>Temperature coefficient of accuracy</b> 0.01% of span per °C</p>	<p><b>ISOLATION</b></p> <p><b>Input/Output isolation</b> a) 1.5 KV AC RMS, 1 minute b) 250 V AC RMS, continuous</p> <p><b>ENCLOSURE</b></p> <p><b>Material</b> ABS plastic</p> <p><b>Dimensions</b> 80(H) x 25(W) x 85(D) mm</p> <p><b>Mounting</b> Snap on for 35 mm DIN rail to DIN 46277 ≤ 2.5 mm<sup>2</sup>, AWG 14</p> <p><b>Connection, single / stranded wires</b> ≤ 2.5 mm<sup>2</sup>, AWG 14</p> <p><b>Weight</b> &lt; 200 grams</p> <p><b>Protection</b> IP 20</p> <p><b>TEMPERATURE, HUMIDITY</b></p> <p><b>Ambient, storage</b> -20 to +85 °C</p> <p><b>Ambient, operation</b> -20 to +70 °C</p> <p><b>Relative humidity</b> 0 ~ 95%</p>
<p><b>ORDER CODE</b> 2105</p>	



**RADIX ELECTROSYSTEMS PVT LTD**  
B-14, 2nd Floor, Ghanshyam Indl Estate  
Veera Desai Road, Andheri (West)  
Mumbai - 400 053, India  
+ 91 22 42537777 | sales@radix.co.in

OTHER ENQUIRIES

**Instruments** sales@radix.co.in  
**Sensors** sensors@radix.co.in  
**Gauges** gauges@radix.co.in  
**Automation** automation@radix.co.in