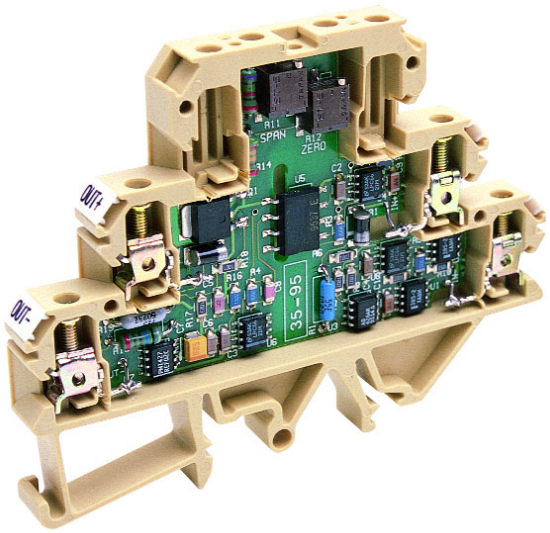
# picoPak™ I-I

## 4-20mA Isolator




The picoPak™ I-I is a very compact isolator for 4-20mA loops. The output is loop powered. The module is perfect for eliminating ground loops and providing increased protection for PLC and DCS analog inputs.

Isolation is optical. This means the output load does not effect the voltage drop across the input (the voltage drop is a near constant at 3.5V).

Features:
- just 8mm wide
- mounts on 32mm and 35mm DIN rails
- 2000V isolation
- user adjustable span and zero adjustments
- CSA, CE and **Class 1 Div 2** approved

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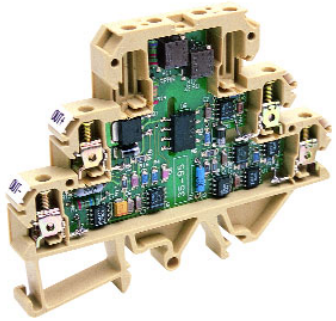

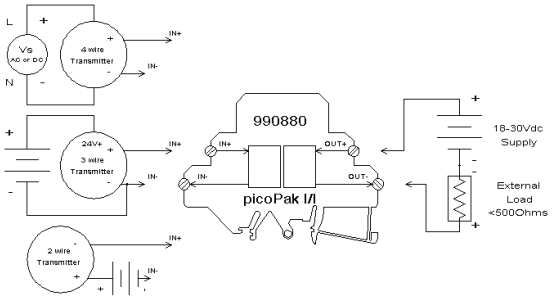


| Rated Data | |
|---|---|
| **Input** | DC Current |
| Range | **4-20mA** |
| Impedance | variable, <3.5Vdc over input range |
| Maximum ratings / type of protection | 50mA |
| Field device excitation | not applicable |
| Other input specification | |
| **Output** | DC current |
| Range | **4-20mA** |
| Load | 0-500Ω or Rmax=[($V_S$-14)/0.02]Ω |
| Burnout level | 3.6mA for input open, 24mA max. for overcurrent input |
| Zero adjustment | 15% nominal around 4mA for calibration purposes |
| Span adjustment | 15% nominal around 20mA for calibration purposes |
| Protection | |
| Other output specification | |
| **Supply** | DC voltage in output loop (2 wire) |
| Range | 18-30Vdc, 24Vdc nominal |
| Consumption | 25mA maximum |
| **General** | |
| Accuracy / Linearity | 0.1% typical@25°C, 0.8% over temperature range |
| Temperature coefficient (drift) | |
| Transmission Frequency | |
| Response time, 90% span | 5mSec., typical |
| Other general specification | |
| Status LED | none |
| Isolation (# of ports) | 2000V (2 port) |
| Operating / Storage temperature | 0°C to 50°C / -20°C to 70°C |
| Housing (mounting) | DK6 (TS32 and TS35) |
| Dimensions in mm (length x width x height) | 88.4 x 9.5 (end plate included) x 78.5 max. |
| Wire range (conductor size) | 22-12AWG (0.5-4.0mm²) |
| Tightening torque / insulation stripping length | 0.4Nm / 7mm |
| Approvals | **CSA, Class 1 Divison 2, CE** |

| Ordering Data | | Type | Cat.No. |
|---|---|---|---|
| picoPak™ | | **picoPak™ I-I** | **9908800000** |
| End plate (width) | Optional | **AP[1] (1.5mm)** | **C9040396** |

1) AP included with 9908800000