Datasheet

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
# picoPak I-I 4-20mA Isolator

## Rated Data

### Input
- **Range**: 4-20mA
- **Impedance**: variable, <3.5Vdc over input range
- **Maximum ratings / type of protection**: 50mA
- **Field device excitation**: not applicable
- **Other input specification**: 50mA

### Output
- **Range**: 0-500mV or \( R_{max} = \left( V_s - 14 \right) / 0.02 \) or 50mA not applicable
- **Load**: 0.56mA for input open, 24mA max. for overcurrent input
- **Burnout level**: 15% nominal around 4mA for calibration purposes
- **Zero adjustment**: 15% nominal around 20mA for calibration purposes
- **Span adjustment**: none
- **Protection**: none
- **Other output specification**: 2000V (2 port)

### Supply
- **Range**: DC voltage in output loop (2 wire)
- **Consumption**: 18-30Vdc, 24Vdc nominal
- **0.1% typical@25°C, 0.8% over temperature range**: 25mA maximum

### General
- **Accuracy / Linearity**: 0.1% typical@25°C, 0.8% over temperature range
- **Transmission Frequency**: 5mSec., typical
- **Response time, 90% span**: none
- **Temperature coefficient (drift)**: none
- **Other general specification**: none

### Status LED
- **Isolation (# of ports)**: none
- **Operating / Storage temperature**: 0°C to 50°C / -20°C to 70°C
- **Housing (mounting)**: DKS (TS32 and TS35) 22-12AWG (0.5-4.0mm²)
- **Dimensions in mm (length x width x height)**: 88.4 x 9.5 (end plate included) x 78.5 max.
- **Tightening torque / insulation stripping length**: 0.4Nm / 7mm
- **Approvals**: CSA, Class 1 Division 2, CE

### Ordering Data
- **picoPak™**: picoPak™ I-I 9908800000
- **End plate (width)**: Optional

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1) AP included with 9908800000

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