FEATURES

• DIN Rail Mounting
• 1500 V Isolation
• Inputs: 4-20 mA, 0-10 V
• Outputs: 4-20 mA, 0-10 V
• Single Input & Single or Dual Outputs
• 0.1% FS Accuracy
• Operating Temperature Range: -4 to 131°F (-20 to 55°C)

OVERVIEW

The PD659 series includes DIN mountable models for signal isolation, splitting and conditioning of 4-20 mA and 0-10 VDC signals. As signal isolators, they provide a convenient way to isolate the input signal from the power source and output signal. As splitters, they split one 4-20 mA input into two isolated 4-20 mA outputs. As signal conditioners, they convert either a 4-20 mA input to a 0-10 VDC output or a 0-10 VDC input to a 4-20 mA output.

SPECIFICATIONS

Input Ranges: (based on model): 4-20 mA, 0-10 V
Output Ranges: (based on model): 4-20 mA, 0-10 V
Accuracy: 0.1% FS
Power: 24 VDC ±10% @ 50 mA
Isolation: 1500 V AC / 1min (between input-output-power)
Isolation Resistance: ≥ 100 MΩ (between input-output-power)
Input Impedance: 50 Ω, ±1% for 4-20 mA input and 700
Temperature Drift: 0.005% FS/°C (-20 to 55°C)
Connections: De-pluggable screw terminals
Isolated Loop Supply (on mA models): 10 V ±10%
Maximum Signal Output Current (on mA models): 25 mA
Minimum Signal Output Current (on mA models): 0.3 mA
Response Time: < 10 ms
Output Load Resistance: RL ≤ 500Ω (output current signal), RL ≥ 10KΩ (output voltage signal)
Output Ripple: ≤ 0.5% RO
Operating Temperature: -4 to 131°F (-20 to 55°C)
Storage Temperature: -4 to 158°F (-20 to 70°C)
Relative Humidity: 0 to 80% non-condensing
CONNECTIONS

PD659-1MA-1MA SIGNAL ISOLATOR
(One 4-20 mA Input and One 4-20 mA Output)

Signal Isolator powering 2-wire transmitter input

External power supply powering 2-wire transmitter input

PD659-1MA-2MA SIGNAL SPLITTER
(One 4-20 mA Input and Two 4-20 mA Outputs)

Signal Splitter powering 2-wire transmitter input

External power supply powering 2-wire transmitter input

PD659-1MA-1V SIGNAL CONDITIONER
(One 4-20 mA Input and One 0-10 VDC Output)

Signal Conditioner powering 2-wire transmitter input

External power supply powering 2-wire transmitter input
PD659 Signal Isolator, Splitter, Conditioner

CONNEXIONS (continued)

PD659-1V-1MA SIGNAL CONDITIONER
(One 0-10 VDC Input and One 4-20 mA Output)

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>PD659-1MA-1MA</td>
<td>Signal Isolator with One 4-20 mA Input and One 4-20 mA Output</td>
</tr>
<tr>
<td>PD659-1MA-2MA</td>
<td>Signal Splitter with One 4-20 mA Input and Two 4-20 mA Outputs</td>
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<tr>
<td>PD659-1V-1MA</td>
<td>Signal Conditioner with One 0-10 VDC Input and One 4-20 mA Output</td>
</tr>
<tr>
<td>PD659-1MA-1V</td>
<td>Signal Conditioner with One 4-20 mA Input and One 0-10 VDC Output</td>
</tr>
</tbody>
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DIMENSIONS

Units: Inches (mm)

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>1.4 (35)</td>
</tr>
<tr>
<td>Height</td>
<td>3.9 (99)</td>
</tr>
<tr>
<td>Depth</td>
<td>3.9 (100)</td>
</tr>
</tbody>
</table>

Three-Wire Transmitter Connections

Signal Isolator/Splitter/Conditioner powering 3-wire transmitter input

External power supply powering 3-wire transmitter input

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WARNING

Cancer and Reproductive Harm - www.P65Warnings.ca.gov