

## Selection Guide

Threshold relays

Process signal converters/isolators

Temperature converters

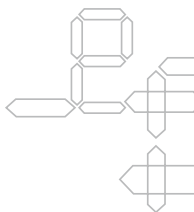
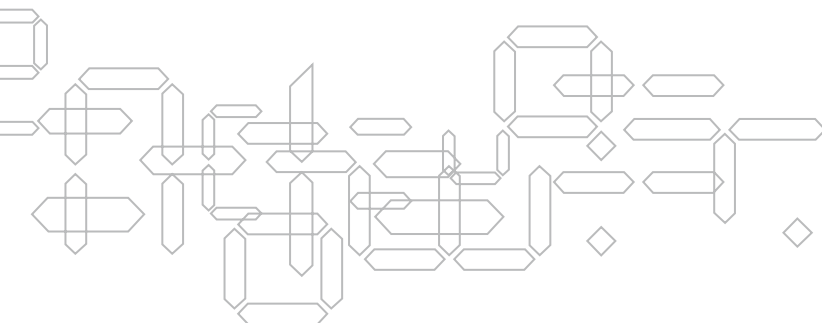
Process signal to pulse frequency converters/isolators

Pulse frequency to process signal converters/isolators




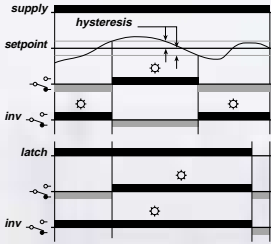
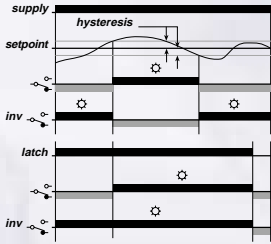
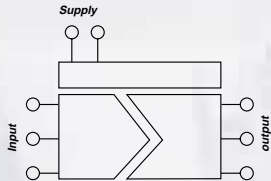
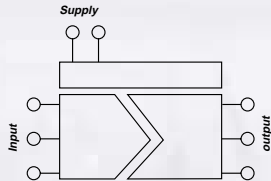
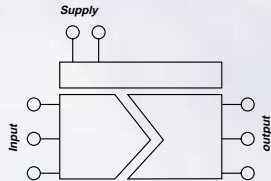
Resistance to process signal converters/isolators





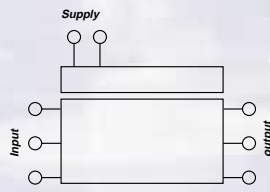
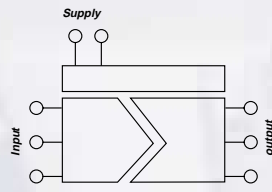
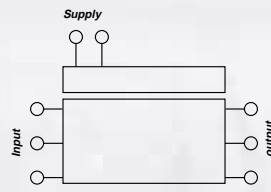
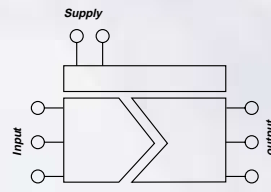
Current to process signal converters/isolators

Programmable transmitters/isolators



# Selection Guide

Type	 <b>PXL-10</b>	 <b>PXL-20</b>	 <b>PXU-20</b>																														
	<p>Threshold relay for process signal. Relay output. Adjustable setpoint and hysteresis on the front panel. Hysteresis adjustable: <math>\pm 0.5-20\%</math>. Inversion (inv) of relay function on connection of jumper. Automatic locking (latch) on connection of jumper.</p>	<p>Threshold relay for process signal. Solid state relay output. Adjustable setpoint and hysteresis on the front panel. Hysteresis adjustable: <math>\pm 0.5-20\%</math>. Inversion (inv) of relay function on connection of jumper. Automatic locking (latch) on connection of jumper.</p>	<p>Linear process signal converter with galvanic isolation between input and output signals. Input selection via switch on the front panel. Output selection via choice of terminals. Offset/gain (zero/span) adjustable on the front panel: <math>\pm 5\%</math>.</p>																														
Ordering Code Example	<b>PXL-10.230</b>	<b>PXL-20.230</b>	<b>PXU-20.924</b>																														
Input Signal	<p>0-5V DC 0-10V DC -10 - +10V DC 0-20mA DC 4-20mA DC Selected via switch on the front panel. Impedance (V): Approx. 100 kOhm Impedance (I): 50 Ohm Upper frequency limit: 30Hz</p>	<p>0-5V DC 0-10V DC -10 - +10V DC 0-20mA DC 4-20mA DC Selected via switch on the front panel. Impedance (V): Approx. 100 kOhm Impedance (I): 50 Ohm Upper frequency limit: 30Hz</p>	<p>0-5V DC 0-10V DC -10 - +10VDC 0-20mA DC 4-20mA DC Selected via switch on the front panel. Impedance (V): Approx. 100 kOhm Impedance (I): 50 Ohm Upper frequency limit: 30Hz</p>																														
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Output Signal	<p>Relay SPDT 8A/240V AC</p> 	<p>Solid state relay (NO/NC) 100mA/± 35V DC</p> 	<p>4-20mA DC (max. 500 Ohm) 0-20mA DC (max. 500 Ohm) 0-10V DC (via internal 500 Ohm shunt) 2-10V DC (via internal 500 Ohm shunt) Selected via terminals.</p> <table border="1" data-bbox="1117 1411 1385 1601"> <thead> <tr> <th>Terminal</th> <th>4-20mA</th> <th>0-20mA</th> <th>0-10V</th> <th>2-10V</th> </tr> </thead> <tbody> <tr> <td>O<sub>OUT</sub></td> <td>○</td> <td>○</td> <td>○</td> <td>○</td> </tr> <tr> <td>I<sub>OUT</sub></td> <td>○</td> <td>○</td> <td>○</td> <td>○</td> </tr> <tr> <td>V<sub>OUT</sub></td> <td></td> <td></td> <td>○</td> <td>○</td> </tr> <tr> <td>Z1</td> <td></td> <td></td> <td>]</td> <td>]</td> </tr> <tr> <td>Z2</td> <td></td> <td></td> <td>]</td> <td>]</td> </tr> </tbody> </table>	Terminal	4-20mA	0-20mA	0-10V	2-10V	O <sub>OUT</sub>	○	○	○	○	I <sub>OUT</sub>	○	○	○	○	V <sub>OUT</sub>			○	○	Z1			]	]	Z2			]	]
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Isolation	<p>3,75kV AC (input, supply and output)</p>  <p><b>3,75kV AC, 1 minute</b></p>	<p>3,75kV AC (input, supply and output)</p>  <p><b>3,75kV AC, 1 minute</b></p>	<p>3,75kV AC (input, supply and output)</p>  <p><b>3,75kV AC, 1 minute</b></p>																														

 <p><b>PXT-10/11</b></p> <p>Conversion of signal from 2/3-wire Pt-100 or Pt-1000 probe. -50-300°C in two ranges. Offset/gain (zero/span) adjustable on the front panel: ± 5%. Output selection via choice of terminals.</p>	 <p><b>PXF-10</b></p> <p>Conversion of analogue process signals to frequency. Can be used on PLC with digital pulse counting input for measuring analogue process signals. Input selection via switch on the front panel. Offset/gain (zero/span) adjustable on the front panel: ± 5%. Two standard output ranges. Output selection via choice of terminals.</p>	 <p><b>PXF-20</b></p> <p>Conversion of frequency to analogue process signals from NPN, PNP or Namur switch. Input selection via switch on the front panel. Offset/gain (zero/span) adjustable on the front panel: ± 5%. Output selection via choice of terminals.</p>	 <p><b>PXR-10</b></p> <p>Resistance to analogue converter for the conversion of a resistance to an analogue process signal with galvanic isolation. A typical application would be to convert a resistor probe to an analogue input of a PLC and provide galvanic isolation between input and output.</p>																																																																																																															
<p><b>PXT-10.115</b></p>	<p><b>PXF-10.230.1</b></p>	<p><b>PXF-20.230</b></p>	<p><b>PXR-10.230</b></p>																																																																																																															
<p>-50-100°C -50-300°C Selected via terminals. Temperature drift &lt; 0.05%/°C</p> <table border="0"> <tr> <td>Pt-100</td> <td><b>10</b></td> </tr> <tr> <td>Pt-1000</td> <td><b>11</b></td> </tr> </table>	Pt-100	<b>10</b>	Pt-1000	<b>11</b>	<p>0-5V DC 0-10V DC -10 - +10V DC 0-20mA DC 4-20mA DC Selected via switch on the front panel. Impedance (V): Approx. 1 MOhm Impedance (I): 50 Ohm</p>	<p>0-100Hz 0-500Hz 0-1000Hz 0-2000Hz 0-5000Hz Selected via switch on the front panel. Internal supply for sensors (max. 10mA).</p>	<p>0-5kOhm 0-1kOhm Selected via coding Y3-Z3</p>																																																																																																											
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<p>3,75kV AC (input/output and supply)</p>  <p>3,75kV AC, 1 minute</p>	<p>3,75kV AC (input, supply and output)</p>  <p>3,75kV AC, 1 minute</p>	<p>3,75kV AC (input/output and supply)</p>  <p>3,75kV AC, 1 minute</p>	<p>3,75kV AC (input/output and supply)</p>  <p>3,75kV AC, 1 minute</p>																																																																																																															



**PXR-10**

Resistance to analogue converter for the conversion of a resistance to an analogue process signal with galvanic isolation. A typical application would be to convert a resistor probe to an analogue input of a PLC and provide galvanic isolation between input and output.

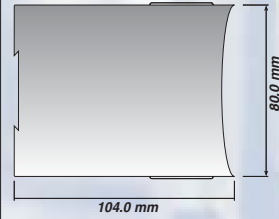


**PXC-10**

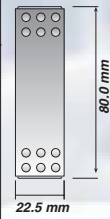
Signal converter for the conversion of an AC current signal to an analogue process signal. A typical application would be to convert a signal from a Current Transformer measuring high current to an analogue input of a PLC.

**Mechanical Dimensions**

**Side**



**Front**



**Terminals:**

Combi notch-screw terminals:  
Recommended torque moment:  
0.5Nm (max. 0.7Nm).  
Up to 2 x 2.5mm<sup>2</sup> (2 x 1.5mm<sup>2</sup> with casings).

**PXR-10.230**

0-5kOhm  
0-1kOhm  
Selected via coding between terminals.

**PXC-10.230**

0-1A AC  
0-5A AC  
Selected via choice of terminals.

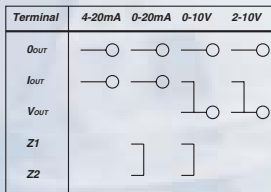
12-48V AC/DC  
115-230V AC

**924**  
**230**

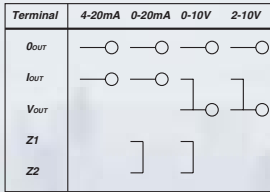
12-48V AC/DC  
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**924**  
**230**

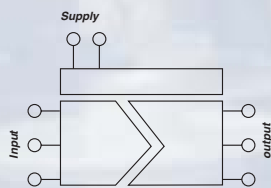
4-20mA DC (max. 500 Ohm)  
0-20mA DC (max. 500 Ohm)  
0-10V DC (via internal 500 Ohm shunt)  
2-10V DC (via internal 500 Ohm shunt)  
Selected via terminals.



4-20mA DC (max. 500 Ohm)  
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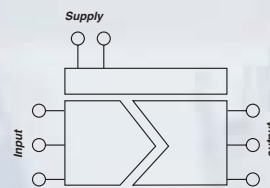


3,75kV AC (input, supply and output)



**3,75kV AC, 1 minute**

3,75kV AC (input, supply and output)



**3,75kV AC, 1 minute**

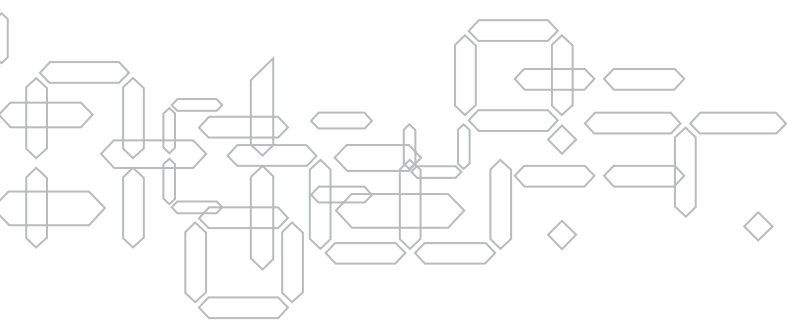


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simplifying process



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