BLX Feedback Module
Dependable Products • Responsive Service

The BLX R100 (positioner mounting) and the R300 (stand alone) feedback modules allow for accurate position feedback, where on-off indication (mechanical switches) or 4-20mA transmitter or potentiometer is required. Feedback units can be factory or field mounted to the V100 positioner with no additional parts or mounting brackets required, thus creating a very compact package. Combinations of switches and transmitters or potentiometer are available. The positioner/switch package is completely sealed, and can be fitted with a flat or raised indicator. Spring-loaded switches and transmitter make calibration simple and quick.

Specifications
Output 4-20mA, 2 wire
Voltage supply 10-30VDC
Loop impedance: max 700ohms @ 24 VDC
Temp. range -40°F to +185°F (-40°C to +85°C)
Unlinearity <1.5%
Hysteresis <0.3%
Temp. sensitivity <0.1% / 10°F(5.5°C)
Enclosure NEMA 4X (IP66)
Painting: Powder polyester.
2 Conduit connections 1/2" NPT
Internal and external grounding points
Bolt on to BLX V100 positioner without any mounting details.

Settings on PC-board
Jumper for Direct(CCW) or Reverse(CW) rotation.
Jumper for 45 degree rotation.
Span set potentiometer range from (90 deg)60-120 deg or (45 deg)25-60 deg)
Zero fine set by means of set potentiometer +/-10%
Zero coarse set by means of simple gear teeth adjustment
Test pins for easy calibration in loop

Electronics are short circuit protected.

Ordering Codes
<table>
<thead>
<tr>
<th>Type</th>
<th>Switch</th>
<th>Feedback</th>
<th>Front Cover(R300 only)</th>
<th>Indicator (R300 only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>R100-Feedback Module</td>
<td>M-Mechanical (2 spdt)</td>
<td>mA-4/20 mA</td>
<td>90-90 degree</td>
<td>A-Arrow</td>
</tr>
<tr>
<td>Positioner Mounted</td>
<td>R-Reed (2 spdt)</td>
<td>P1-1k Pot</td>
<td>60-60 degree</td>
<td>B-Raised Indicator</td>
</tr>
<tr>
<td>R300-Feedback Module</td>
<td>N-Namur</td>
<td>P5-5k Pot</td>
<td>45-45 degree</td>
<td></td>
</tr>
<tr>
<td>Stand Alone</td>
<td></td>
<td></td>
<td>30-30 degree</td>
<td></td>
</tr>
</tbody>
</table>

Available with switches only, transmitter or pot only, or combinations of switches and transmitter or switches and pot.
R100 utilizes positioner front cover.

Example: R100-M-mA
Feedback module with 2 mechanical switches, 4-20 mA transmitter.
Marketed by VAC (Valve Accessories & Controls, LLC.), the BLX positioner line will be supported by a knowledgeable and professional staff. Customer service is a key component to the BLX/VAC package. Local inventories and technical assistance are just a phone call away.

The BLX product package will include a diverse mix of positioners, rack and pinion actuators, and feedback switches for positioner mounting and/or stand alone use, as well as an I/P transducer. Quality design and manufacturing will be coupled with very competitive pricing and excellent service, providing all process industries a “complete package”.

4/20mA jumpers

No jumper = 60-120 degree range
With jumper = 30-60 degree range

Jumper handle pointing to the desired rotation.

Calibration—simple and quick.