Features and Benefits

- Valve Position Indicator
- Quick-Set Cam
  The operating position of the switches can be easily changed by hand without the need for tools.
- Easy Wiring
  8 point terminal strip.
- Dual 3/4" conduit entries
- Captive Cover Bolts
- Includes SS NAMUR bracket for most smaller size actuators. Larger brackets are optional.

Switch Options

Mechanical
Voltage: Max 250 VAC or DC
.6A at 250 VDC
.3A at 250 VDC
16A at 125, 250 VAC

Proximity PNP / NPN
Response frequency: 800 Hz
Power Supply Voltage: 12 - 24 V DC
Control Output
Open/Close capacitance: 200 mA max
(Resistive load)
Residual Voltage: 1.5 V max
Current Consumption: 6 mA max
Operation indication: Red LED

DC 2 Wire
Response frequency: 500 Hz
Power Supply Voltage: 12 - 24 V DC
Control Output
Open/Close capacitance: 100 mA max
(Resistive load)
Residual Voltage: T (Polarity) : 3.5 V max, U (Non polarity) : 5 V max
Leakage current: 1 mA max
Operation indication: Red LED

Certifications

- IP 68
- Low Voltage - Directive 2006/95/EC
- Class I, Division 1, Groups A, B, C and D
- Flameproof for Class I, Zone 1
- Dust-Ignition proof for Class II/III, Division 1, Groups E, F and G hazardous (classified) locations
- ATEX Ex d IIC T5

Specifications

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>SERIES ALS 3X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient Temperature</td>
<td>-4°F to 185°F</td>
</tr>
<tr>
<td>Cable Entry (Standard)</td>
<td>2 x 3/4&quot; PF/PT</td>
</tr>
<tr>
<td>Cable Entry (Option)</td>
<td>2 x 3/4&quot; NPT/M20/M25/P13.5/P16</td>
</tr>
<tr>
<td>Terminal Block (Standard)</td>
<td>8 Points</td>
</tr>
<tr>
<td>Terminal Block (Option)</td>
<td>12 &amp; 14 Points / Solenoid Valve Connection 14 Points</td>
</tr>
<tr>
<td>Position Indicator</td>
<td>0° to 90° (Red for Close / Yellow for Open)</td>
</tr>
<tr>
<td>Painting</td>
<td>Black Polyester Powder Coating</td>
</tr>
<tr>
<td>Bracket</td>
<td>Steel / SUS / Aluminum</td>
</tr>
</tbody>
</table>

Radius LLC is ISO 9001:2008 certified.
**Radius EX-900**

**Explosion Proof Limit Switch**

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### Ordering Code

EX-900-

### Options

0 - 2 SPDT Mechanical (Standard)
1 - Proximity Sensor (PNP)
2 - Proximity Sensor (NPN)
3 - Proximity Sensor (DC 2 Wire)
4 - 3 SPDT Mechanical
5 - 4 SPDT Mechanical
6 - 2 DPDT Mechanical

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### Typical Mechanical Limit Switch Wiring

*Contact sales for additional wiring diagrams*

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### Brackets

<table>
<thead>
<tr>
<th>BRACKET</th>
<th>ACTUATOR SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB1</td>
<td>AD-005 - AD-005 through AD-030 - AS-030</td>
</tr>
<tr>
<td>AB2</td>
<td>AD-040 - AS-040 through AD-500 - AS-500</td>
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</tbody>
</table>

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### Material List

<table>
<thead>
<tr>
<th>NO.</th>
<th>PART NAME</th>
<th>MATERIAL</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Indicator</td>
<td>ABS</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Indicator Cover</td>
<td>Poly-carbonate(PC)</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Base Cover</td>
<td>Aluminum</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Base Body</td>
<td>Aluminum</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Main Shaft</td>
<td>303 SS</td>
<td>1</td>
</tr>
</tbody>
</table>

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