The Reliable Choice

The AVCO Watchman has been designed to provide the most visible and reliable valve position indication in general purpose applications. With a wide variety of switches and sensors available to match your application, the Watchman is the best choice. Features Include:

- CSA Certified for General Purpose applications
- Patented Engineered Loc-Ring Cam and Shaft Retention System provides unsurpassed sensing accuracy over the multi-million cycle life of the physical platform.
- Clear Ektar Cover offers optimum chemical resistance and strength and is environmentally sealed to prevent fogging or entry of contaminants.
- Careful material selection provides the unique patented indicator a rated life of minimum 1,000,000 cycles.
- Materials of construction selected to excel in high vibration, corrosive and dirty environments, either indoors or outdoors.
- Indicator is fully adjustable to any valve or actuator.
- Internal Switches and terminal block are labeled for easier installation.
- The industry's only "true" visual valve position indicator available for multi-port valves, adjustable to match the actual physical flow pattern of the valve.
- "Flat cover" version is available without an indicator for areas with tight space requirements.

Material Specifications

- Enclosure - Aluminum with 2-part Polyurethane Paint
- Shaft - 303 or Optional 316 Stainless Steel
- Shaft Locking Ring - Stainless Steel
- Indicator Cover - Ektar Copolyester
- Bearing - Bronze or Optional 316 Stainless Steel
- Fasteners - 316 & 18-8 Stainless Steel
- O-rings - BUNA-N or Optional Viton
- Cams and Splines - Acetal

Certified Configurations

- 2 or 3 - 1/2" NPT Conduit Entries
- 1, 2, 3 or 4 Mechanical SPDT Switches.
- 1 or 2 Tungsten or Rhodium TTL Hermetically Sealed Proximity Switches
- 1 or 2 DPDT Mechanical Switches
- 1, 2, 3 or 4 Inductive Proximity or Intrinsically Safe Sensors
- Standard NAMUR, Low Profile NAMUR or Standard Shaft (1/4" flats)
- 4-20mA Transmitter or 0-1k or 10k ohm High Linearity Potentiometer for 0-100% Analog Output
Popular Switch and Sensor Specifications

**Mechanical SPDT Switches**
- **Electrical Ratings**
  - 15 A / 125-250 VAC
  - 2.5 A / 24 VDC
  - 0.5 A / 125 VDC
  - 0.25 A / 250 VDC
- **Operating Temperature**
  - -40 to +175 °F

**Mechanical DPDT Switches**
- **Electrical Ratings**
  - 10 A / 125-250 VAC
  - 7 A / 24 VDC
  - 0.25 A / 125 VDC
- **Operating Temperature**
  - -40 to +175 °F

**TTL Hermetically Sealed Proximity Switches**
- **Electrical Ratings**
  - Rhodium (DC Signals):
    - 1 A / 24VDC - 0.25 A / 120VAC
  - Tungsten (AC Signals):
    - 3 A / 120 V AC - 2 A / 24VDC
- **Operating Temperature**
  - -40 to +175 °F

**Pepperl & Fuchs**
- **NJ2-V3-N NAMUR Inductive Sensors (Intrinsically Safe)**

Open/Closed and 3-Way Path Indicators

Intelligent Part Number System

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
<th>Description</th>
<th>Code</th>
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<tbody>
<tr>
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<td>F</td>
<td>Bearing</td>
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<td>Limit Switch</td>
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<td>303 Stainless</td>
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<td>Shaft</td>
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<td>NAMUR 303 SS</td>
<td>E</td>
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<tr>
<td>Red / Green</td>
<td>O</td>
<td>NAMUR 316 SS</td>
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<td>Mechanical SPDT 0.5A-125 VDC</td>
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<td>PRISM SPDT Gold Plated 1A-24VDC</td>
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<tr>
<td>ANSI Red / White</td>
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Options
- Transmitter 4 - 20mA: -420
- Potentiometer 0 - 1k: -1K
- All Viton Seals: -V
- 12 Terminal Points: -12T
- 16 Terminal Points: -16T
- High Temperature: -HT

Contact Moniteur for additional option codes and custom requirements.

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