

The Perfect Choice for Explosion-Proof

The SENTINEL VPT has been designed to provide the most visible and reliable valve position indication in explosion-proof environments. With a wide variety of switches and sensors available to match your application, the Sentinel is the perfect choice.

Features Include:

- ▶ UL and CSA Certified for Explosion-proof.
- ▶ Moniteur's 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 Moniteur's 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 Optional Iridite for Corrosion Resistance, Optional Hard Anodizing for Severe Applications
- ▶ Shaft - 303 or Optional 316 Stainless Steel
- ▶ Shaft Locking Ring - Stainless Steel
- ▶ Indicator Cover - Ektar Copolyester
- ▶ Bearing - Bronze or Optional 303 Stainless Steel
- ▶ Fasteners - 316 & 18-8 Stainless Steel
- ▶ O-rings - BUNA-N or Optional Viton
- ▶ Cams and Splines - Acetal



Industry Approvals:

Mechanical Switches: UL / CSA

Class I, Division 1, Groups C & D;
Class II, Division 1, Groups E, F & G

TTL Switches: UL / CSA

Class I, Division 1, Groups C & D;
Class I, Division 2, Groups A & B;
Class II, Division 1, Groups E, F & G

Certified Configurations

- ▶ 2 or 3 - 3/4" NPT Conduit Entries
- ▶ Certified Male 1/2" NPT Hub for Easy Direct-Mounting of Explosion-proof Solenoid Valves
- ▶ 1, 2, 3, 4 or 6 Mechanical SPDT Switches.
- ▶ 1, 2, 3, 4 or 6 Tungsten or Rhodium TTL Hermetically Sealed Proximity Switches
- ▶ 1, 2, 3 or 4 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



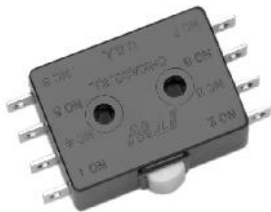
Electrical Ratings
 15 A / 125-250 VAC
 2.5 A / 24 VDC
 0.5 A / 125 VDC
 0.25 A / 250 VDC
Operating Temperature
 -40 to +175 °F

- TTL Hermetically Sealed Proximity Switches



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

- Mechanical DPDT Switches



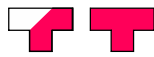
Electrical Ratings
 10 A / 125-250 VAC
 7 A / 24 VDC
 0.25 A / 125 VDC
Operating Temperature
 -40 to +175 °F

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



Electrical Ratings
 NAMUR 5-25 VDC
 Target Present 3-15 mA
 Target Absent <1mA
Operating Temperature
 -25 to +140 °C

Open/Closed and 3-Way Path Indicators



Intelligent Part Number System

A **M** **P** **B** - **E** **0** **0** **0** -420
 Series Cover Indicator Bearing Shaft Switch Quantity Conduit

| Description | Code | Description | Code | Description | Code |
|-------------------------------------|----------|---------------------------------|----------|--|--------------|
| Series: Sentinel | A | Bearing | B | Conduit Connection | 0 |
| Moniteur | M | Bronze | S | 2 - 3/4" F NPT | 0 |
| With Indicator | F | 303 Stainless | | 3 - 3/4" F NPT | 5 |
| Flat Cover | | <u>Shaft</u> | | 1 - 3/4" F NPT + | |
| <u>Indicator Type (open/closed)</u> | | Standard 303 SS | 1 | 1 - 1/2" M NPT | 8 |
| No Indicator (Flat Cover) | N | Standard 316 SS | 3 | <u>Options</u> | |
| Black / Yellow (Standard) | Y | Low Profile NAMUR 303 SS | 5 | Transmitter 4 - 20mA | - 420 |
| Green / Red | A | Low Profile NAMUR 316 SS | 7 | Potentiometer 0 - 1k | - 1K |
| Red / Green | C | NAMUR 303 SS | E | All Viton Seals | -V |
| 0-100% Digital | P | NAMUR 316 SS | G | Hard Anodized Enclosure X14206 | |
| 3-Way Path O (90 deg.) | O | <u>Switch/Sensor Type</u> | | 12 Terminal Points | -12T |
| 3-Way Path T (90 deg.) | T | Mechanical SPDT 15A-250VAC | 1 | 16 Terminal Points | -16T |
| 3-Way Path F (90 deg.) | F | Mechanical SPDT 0.5A-125 VDC | C | High Temperature | -HT |
| 4-Way Path S (90 deg.) | S | PRISM SPDT Gold Plated 1A-24VDC | 3 | Contact Moniteur for additional option codes and custom requirements | |
| 180 degree T-port | 1 | ITW Mechanical DPDT 10A-250VAC | 4 | | |
| 180 degree L-Port - OcOc | 5 | Tungsten TTL Prox 3A-125 VAC | 2 | | |
| 180 degree L-Port - OOcc | 6 | Rhodium TTL Prox 1A-24VDC | T | | |
| ANSI Green / White | G | P&F NJ2-V3-N, NAMUR | 8 | | |
| ANSI Blue / White | B | <u>Sensor Quantity</u> | 1-6 | | |
| ANSI Red / White | R | | | | |