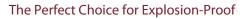


LIMIT SWITCH SENTINEL SERIES

Alloy Valves and Control



The AVCO Sentinel 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.

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.



Industry Approvals:

Mechanical Switches: UL / CSA Class I, Division 1 & 2, Groups C & D; Class II, Division 1 & 2, Groups E, F & G TTL Switches: UL / CSA Class I, Division 1 & 2, Groups C & D;

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

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

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



LIMIT SWITCH SENTINEL SERIES

Alloy Valves and Control

Popular Switch and Sensor Specifications

Mechanical SPDT Switches



Mechanical DPDT 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

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

TTL Hermetically Sealed Proximity Switches



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



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

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











2 Quantity

O Conduit

<u>Description</u>	Code
Series: Sentinel	Α
<u>Limit Switch</u> With Indicator Flat Cover	M F
Indicator Type (open/closed) No Indicator (Flat Cover) Black / Yellow (Standard) Green / Red Red / Green 0-100% Digital 3-Way Path O (90 deg.) 3-Way Path T (90 deg.) 3-Way Path S (90 deg.) 4-Way Path S (90 deg.) 180 degree T-port 180 degree L-Port - OCOC 180 degree L-Port - OCOC ANSI Green / White ANSI Blue / White	NYACPOTFS156GBB
ANSI Red / White	R

Description	<u>Code</u>
Bearing Bronze 303 Stainless	B S
Shaft Standard 303 SS Standard 316 SS Low Profile NAMUR 303 SS Low Profile NAMUR 316 SS NAMUR 303 SS NAMUR 316 SS	1 3 5 7 E G
Switch/Sensor Type Mechanical SPDT 15A-250VAC Mechanical SPDT 0.5A-125 VDC PRISM SPDT Gold Plated 1A-24VDC ITW Mechanical DPDT 10A-250VAC Tungsten TTL Prox 3A-125 VAC Rhodium TTL Prox 1A-24VDC P&F NJ2-V3-N, NAMUR	1 C 3 4 2 T 8
Sensor Quantity	1-6

Description	Code
Conduit Connection 2 - 3/4" F NPT 3 - 3/4" F NPT 1 - 3/4" F NPT + 1 -1/2" M NPT	0 5
Options Transmitter 4 - 20mA Potentiometer 0 - 1k All Viton Seals Hard Anodized Enclosure 12 Terminal Points 16 Terminal Points High Temperature	- 420 - 1K -V X14206 -12T -16T -HT
Contact Moniteur for additional option codes and custom requirements	

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