

## Optimized to Outperform

Moniteur's third generation Valve Position Transmitters have been designed to provide the most reliable valve position feedback in difficult process environments. Every detail of its construction has been optimized to outperform. *Features Include:*

- ▶ Global Approvals - Flameproof ATEX, IECEx and Explosion-proof FM for North America allow you to use the same item number for all of your plant specifications worldwide
- ▶ Moniteur's patented Engineered Loc-Ring Cam and Shaft Retention System provides unsurpassed sensing accuracy over a multi-million cycle life of the physical platform.
- ▶ Industry's finest switches and sensors available exceed any requirements of today's advanced control systems.
- ▶ 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.



<b>ATEX / IECEX</b>	<b>II 2 G Ex d IIB +H2 T6, IP67 II 2 D Ex tD A21 IP 67 T100°C</b>
<b>FM US/ Canada</b>	<b>Cl. 1, Div. 1, Groups B, C, D Cl. 2, Div. 1, Groups E, F G</b>

## Material Specifications

- ▶ Enclosure - Low Copper Content Aluminum A360 with 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 and 18-8 Stainless Steel
- ▶ O-rings - BUNA-N or Optional Viton
- ▶ Cams and Splines - Acetal

## Certified Options

- ▶ 2 or 3 - M20, M25 or 3/4" NPT Conduit Entries
- ▶ 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
- ▶ NAMUR or Standard Shaft (1/4" flats)
- ▶ 4-20mA Transmitter or 0-1k or 10k ohm High Linearity Potentiometer for 0-100% Analog Output
- ▶ ASi, DeviceNet, Profibus DP and Foundation Fieldbus Network Cards for Your Valve Monitor Network



## 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



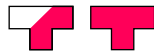
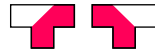
Electrical Ratings  
 10 A / 125-250 VAC  
 7 A / 24 VDC  
 0.25 A / 125 VDC  
Operating Temperature  
 -40 to +175 °F

- ▶ 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

**S** **M** **Y** **B** - **E** **1** **2** **0**  
 Series    Cover    Indicator    Bearing    Shaft    Switch    Quantity    Conduit

Description	Code	Description	Code	Description	Code
Series: Sentinel S3	S	Bearing		Conduit Connection	
Moniteur		Bronze	B	2 - 3/4" F NPT	0
With Indicator	M	303 Stainless	S	3 - 3/4" F NPT	5
Flat Cover	F	Shaft		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	2 - M20	A
Black / Yellow (Standard)	Y	Low Profile NAMUR 303 SS	5	3 - M20	B
Green / Red	A	Low Profile NAMUR 316 SS	7	2 - M25	E
Red / Green	C	NAMUR 303 SS	E	3 - M25	F
0-100% Digital	P	NAMUR 316 SS	G	<u>Options</u>	
3-Way Path O (90 deg.)	O	<u>Switch/Sensor Type</u>		Transmitter 4 - 20mA	- T
3-Way Path T (90 deg.)	T	Mechanical SPDT 15A-250VAC	1	Potentiometer 0 - 1k	- P
3-Way Path F (90 deg.)	F	Mechanical SPDT 0.5A-125 VDC	C	All Viton Seals	- V
4-Way Path S (90 deg.)	S	PRISM SPDT Gold Plated 1A-24VDC	3	Hard Anodized Enclosure	- H
180 degree T-port	1	ITW Mechanical DPDT 10A-250VAC	4	12 Terminal Points	- 12
180 degree L-Port - OcOc	5	Tungsten TTL Prox 3A-125 VAC	2	16 Terminal Points	- 16
180 degree L-Port - OOcc	6	Rhodium TTL Prox 1A-24VDC	T	26 Terminal Points	- 26
ANSI Green / White	G	P&F NJ2-V3-N, NAMUR	8	Contact Moniteur for	
ANSI Blue / White	B	<u>Sensor Quantity</u>	1-6	additional option codes	
ANSI Red / White	R			and custom requirements	