

Optimized to Outperform

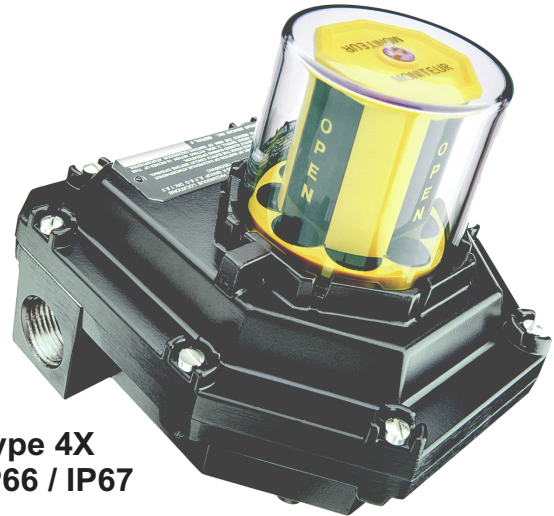
Moniteur's third generation Valve Position Transmitters have been designed to provide the most reliable valve position feedback in difficult process environments. Every detail of its construction has been optimized to outperform.

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
- ▶ No conduit seal required in Division 1 and 2 areas with non-contact switches
- ▶ 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 most reliable switches and sensors available to exceed the requirements of advanced control systems.
- ▶ Clear Ektar cover offers optimum chemical resistance and strength and is environmentally sealed to prevent fogging or entry of contaminants.
- ▶ Moniteur's patented field-proven indicator a rated life minimum of 1,000,000 cycles.
- ▶ Moniteur's materials of construction selected to outperform in high vibration, corrosive and dirty environments, either indoors or outdoors.

Material Specifications

- ▶ Enclosure - Low Copper Content Aluminum A360
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



**Type 4X
IP66 / IP67**

Hazardous Area Ratings - ATEX / IECEX



II 2 G Ex d IIB +H2 T6

II 2 D Ex tb IIIC T85°C

IECEX FMG 09.0002X

FM09ATEX0020X

Hazardous Area Ratings - North America



Cl. I, Div. 1, Groups B*, C, D

Cl. II, Div. 1, Groups E, F, G

* - Mech Switches Grp C & D Only

Operating Temperature [deg. C -40° to 79°]
(-40°F to 174°F)

Certified Options¹

- ▶ 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, 4 or 6 Inductive Proximity
- ▶ NAMUR or Standard Shaft (1/4" flats)
- ▶ 4-20mA Transmitter, 0-1k, 0-10k ohm High Linearity Potentiometer for 0-100% Analog Output
- ▶ ASi, DeviceNet and Profibus DP Network Cards for Your Valve Monitor Network

¹ - Some Options Affect Approvals - Contact Moniteur



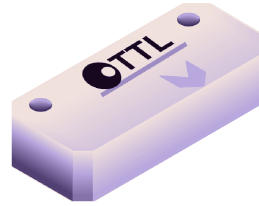
Popular Switch and Sensor Specifications

► Mechanical SPDT Switches



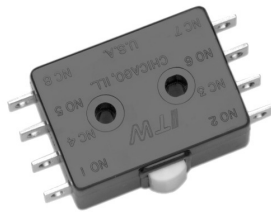
Electrical Ratings
 15 A / 125-250 VAC
 2.5 A / 24 VDC
 0.5 A / 125 VDC
 0.25 A / 250 VDC
Operating Temperature
 -40 to +174 °F

► 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 +174 °F

► Mechanical DPDT Switches



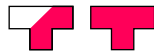
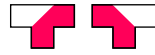
Electrical Ratings
 10 A / 125-250 VAC
 7 A / 24 VDC
 0.25 A / 125 VDC
Operating Temperature
 -40 to +174 °F

► 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
 -14 to +174 °F

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	2x - 3/4" F NPT	0
With Indicator	M	303 Stainless	S	3x - 3/4" F NPT	5
Flat Cover	F	Shaft		2x - 3/4" F NPT and	6
<u>Indicator Type (open/closed)</u>		Standard 303 SS	1	1x -1/2" F NPT	
No Indicator (Flat Cover)	N	Standard 316 SS	3	1x -3/4" F NPT and	8
Black / Yellow (Standard)	Y	Low Profile NAMUR 303 SS	5	1x -1/2" M NPT	
Green / Red	A	Low Profile NAMUR 316 SS	7	2x - M20	A
Red / Green	C	NAMUR 303 SS	E	3x - M20	B
0-100% Digital	P	NAMUR 316 SS	G	2x - M25	E
3-Way Path O (90 deg.)	O	<u>Switch/Sensor Type</u>		3x - M25	F
3-Way Path T (90 deg.)	T	Mechanical SPDT 15A-250VAC	1	<u>Options</u>	
3-Way Path F (90 deg.)	F	Tungsten TTL Prox 3A-125 VAC	2	Transmitter 4 - 20mA	-WT1
4-Way Path S (90 deg.)	S	Mechanical SPDT Gold Plated 1A-24VDC	3	Potentiometer 0 - 1k	-WR1
180 degree T-port	1	ITW Mechanical DPDT 10A-250VAC	4	Hard Anodized Enclosure	-H1
180 degree L-Port - OcOc	5	P&F NJ2-V3-N, NAMUR	8	12 Terminal Points	-US12
180 degree L-Port - OOCC	6	Rhodium TTL Prox 1A-24VDC	T	16 Terminal Points	-US16
ANSI Green / White	G	<u>Sensor Quantity</u>	0-6	Contact Moniteur for additional option codes	
ANSI Blue / White	B				
ANSI Red / White	R				