

# **ACCUTRAK™** ROTARY POSITION MONITORS MODELS 2007/9479/360/366 EXPLOSIONPROOF/ELAMEPROOF

Fully integrated and encapsulated rotary valve position monitors that are certified for use in explosive atmospheres.



## **TECHNICAL DATA**

Models 2007/9479

Agency approvals Explosionproof/flameproof

Model 360/366

Enclosure standards All enclosures **Switches\*\*** Magnum/MagPAC V3 (SPDT) & DPDT mechanical Pepperl + Fuchs model NJ2-V3-N **Enclosures** Aluminum Stainless steel Intertek ATM:103627517CRT-001 CL. I, Div. 1, Groups C & D; T\* CL. II, Div. 1, Groups E, F & G; T\* Tamb: -\*°C to +\*°C<sup>1</sup> IP66/67 II 2 G Ex db IIB+H2 T\* Gb Ta= -\*°C to +\*°C II 2 D Ex td IIIC T\* Db Ta= -\*°C to +\*°C, IP6X ITS12ATEX17472X IECEx ETL17.0008X NCC 16.0122X Intertek ATM: 104050146CRT-001 CL. I, Div. 1, Groups A<sup>2</sup>, B, C & D; T\* Class II/III, Division 1, Groups E, F & G; T\* NI, CL. I, Div. 2, Groups A, B, C, D; T\* 6P

Type 4, 4X

# FEATURES

- Touch set cams are hand adjustable, spring loaded and self-locking providing quick calibration of position switches and sensors.
- Terminal strips are pre-wired and numbered with generous working space for ease of use.
- Strong durable Beacon<sup>™</sup> offers 360° visual indication in a choice of styles and colors.
- Additional conduit for easy field wiring and mounting accessories as standard.
- Standardized mounting pattern for easy adaptation to common bracketry.
- NAMUR shaft output compliant to VDI/VDE 3845 available.
- Analog position transmitter options.
- Eliminator option for easy integration of external solenoid valve.
- Aluminum enclosures with ultra-low copper content (0.2% maximum) ensure robust performance in corrosive environments.
- Rugged stainless steel enclosures.

#### **GENERAL APPLICATION**

AccuTrak position monitors are ideal for manual and automated rotary valves. They provide consistent and accurate valve monitoring in a compact unit which can be mounted directly or via a valve actuator.

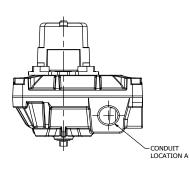
NOTES

<sup>1</sup>This information can change depending on the construction, refer to the certification. <sup>2</sup> Solenoid option not available \*Ambient temperature depend on configuration, see

product certificate for details

\*\*Refer to ordering guides for switch options

MODELS 2007/9479 DIMENSIONS



HOUSING DIMENSIONS DIM. A COVER RE

211.1 [8.31]

157.8 [6.21]

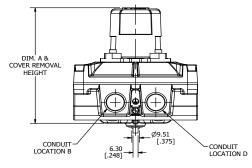
88.4 [3.48]

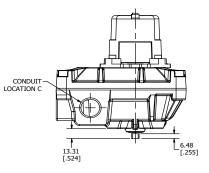
COVER TYPE

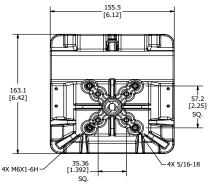
HI COVER

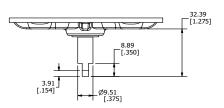
STD. COVER

FLAT COVER











Dimensions in inches, where available metric dimension (mm) in parentheses

COVER REMOVAL HEIGHT

332.3 [13.08]

247.2 [9.73]

111.3 [4.38]

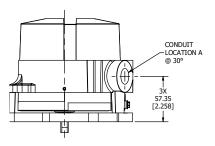
TECHNICAL SPECIFICATIONS Materials of construction	
Enclosure	Aluminum with powder coat finish
Shaft and hardware	Stainless steel
Bushing	Oil impregnated bronze
Beacon visual indicator	Co-polyester
Drive shaft	
Westlock standard	Double-D with ¼" A/F
NAMUR standard	NAMUR standard VDI/VDE 3845
Available switches	
	V3 mechanical switches, SPDT
	DPDT (Form CC) mechanical switches
	Pepperl + Fuchs model NJ2-V3-N
	Magnum (hermetically sealed proximity type)
	MagPAC bifurcated switch pack (9479 ONLY)
Options	
	Stainless steel enclosure
	4-20 mA position transmitter

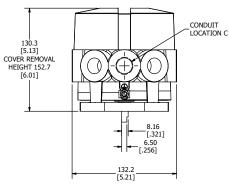
# NOTES

- 1. See selection guide for standard conduit entries
- 2. See switches & sensors data sheet for further information
- 3. A specialist eliminator fitting is available for the mounting of an aftermarket solenoid valve
- 4. Please consult your sales office for any other requirements



MODELS 360/366 DIMENSIONS



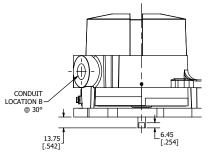


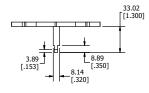
28.58 [1.125]

57.15 [2.250]

SQ

166.7 [6.56]





Ø4.85 [Ø.191] Ø9.51 [Ø.375] [.133] - 3.99 [.157]

> SHAFT DETAIL NAMUR OUTPUT

5/16-18 UNC - 2B

Dimensions in inches, where available metric dimension (mm) in parentheses

# **TECHNICAL SPECIFICATIONS**

Materials of construction	
Enclosure	
Model 360	Aluminum with powder coat finish
Model 366	Stainless steel with electropolished finish
Shaft and hardware	Stainless steel
Bushing	Oil impregnated bronze
Beacon visual indicator	Co-polyester
Drive shaft	
Westlock standard	Double-D with ¼" A/F
NAMUR standard	NAMUR standard VDI/VDE 3845
Available switches	
	V3 mechanical switches, SPDT
	DPDT (Form CC) mechanical switches
	Magnum, SPDT hermetically sealed switches, with tungsten contacts
	Magnum, SPDT hermetically sealed switches, with rhodium contacts
Options	
Models 360/366	4-20 mA position transmitter

#### Notes

- 1. See selection guide for standard conduit entries
- 2. See switches & sensors data sheet for further information
- 3. A specialist eliminator fitting is available for the mounting of an aftermarket solenoid valve
- 4. Please consult your sales office for any other requirements



# **ACCUTRAK™** EXPLOSIONPROOF ROTARY POSITION MONITORS

MODEL 2007 SELECTION GUIDE

Base m	odel										
2007	Alumin	um er	nclosu	ire							
	Sha	aft output									
	S D N	Dir			-D with 1/4" ystone F89 a						
			Beac	on							
			RG FE LP B1 B3 B5 B7 B7	BM2-R0 BM2-Y- BM2-Y- BM3-1   BM3-3   BM3-5   BM3-7   BM3-9	Standard) G (Red Close FE (French/ -LP (Low Pro (3-way B1 Fl (3-way B3 Fl (3-way B5 Fl (3-way B7 Fl (3-way B9 Fl	English) ofile Star owpath) owpath) owpath) owpath) owpath)					
			гU		duit	lable wi	an switch options requiring high cover				
						IPT (F) -	not permitted with switch options 6M02 or 4M04				
					4E 4F EA 2M	Two 3/4" N Two 3/4" N	IPT (F), ( IPT (F) & IPT (F) & F) - <b>not p</b>	Dne 1/2" NPT (F) & One 1/2" NPT (M) Global Eliminator Fitting* Two 1/2" NPT (M) Global Eliminator Fittings* Two 1/2" NPT (F) permitted with switch options 6M02 or 4M04			
					Positio	n switch	n switches				
					4M02 6M02 2M04	Four S Six SPI Two DF	2DT Mechanical Switches - 8 pt. Terminal Strip PDT Mechanical Switches - 16 pt. Terminal Strip DT Mechanical Switches - 24 pt. Terminal Strip, High Cover, 4 Conduits 2DT Mechanical Switches - 16 pt. Terminal Strip PDT Mechanical Switches - 24 pt. Terminal Strip, High Cover, 4 Conduits				
						Pos	ition Transmitter				
						00 DS	None 4-20 mA Digital Signal Position Transmitter - <b>12 pt. Terminal Strip w/ 2M02 OR 16 pt. Terminal Strip,</b> High Cover w/ 2M04, 4M02				
							Unit Specialty Codes (leave blank for standard builds)				
							M0000INMETRO Certification00124316 Stainless Steel Enclosures00692**120 VAC Heater Resistor0071012 pt. Terminal Strip00816**24 VDC Heater Resistor01351SIL 3 - some resistrictions may apply; consult Sales				
2007	N		BY	2B	2M02	DS	= Model number <b>2007NBY2B2M0200DS</b>				

#### ORDERING NOTES

\*Eliminator Fitting is 1/2" NPT (M) for the purpose of mounting an after market solenoid valve.

\*\*For INMETRO replace first digit of the speciality code with M; For e.g. 2007NBY2B2M02DS**M**0124

\*\*\*T Ratings for optional heater resistors changes to T2C.

# **ACCUTRAK™** EXPLOSIONPROOF ROTARY POSITION MONITORS

MODEL 9479 SELECTION GUIDE

Base m	se model										
9479 Aluminum enclosure											
	Sha	ft output									
	S D N	Standar Direct n NAMUR									
		Bea	con								
		RG FE LP B1 B3 B5 B7	BM2-R( BM2-Y- BM2-Y- BM3-1 BM3-3 BM3-5 BM3-7 BM3-9	BM2-Y (Standard) BM2-RG (Red Closed/Green Open) BM2-Y-FE (French/English) BM2-Y-LP (Low Profile Standard) BM3-1 (3-Way B1 Flowpath) BM3-3 (3-Way B3 Flowpath) BM3-5 (3-Way B5 Flowpath) BM3-7 (3-Way B5 Flowpath) BM3-9 (3-Way B9 Flowpath) Flat cover - not available with switch options requiring high cover							
				duit							
			<ul> <li>ZB Two 3/4" NPT (F) - not permitted with 6 SPDT or 4 DPDT switch options</li> <li>Four 3/4" NPT (F)</li> <li>Two 3/4" NPT (F), One 1/2" NPT (F) &amp; One 1/2" NPT (M) Global Eliminator Fitting*</li> <li>Two 3/4" NPT (F) &amp; Two 1/2" NPT (M) Global Eliminator Fittings*</li> <li>EA Two 3/4" NPT (F) and Two 1/2" NPT (F)</li> <li>Two M20 (F) - not permitted with 6 SPDT or 4 DPDT switch options</li> <li>Four M20 (F)</li> </ul>								
						es (see ordering notes)					
				2M08 2M12 2M13 2M17 2M18 4M06 4M08 4M12 4M17 4M18 6M06 6M08	Two P+F Two SPD MagPAC Two DPD Four SPD Four SPD Four SPD Four DPD Four DPD Six SPDT Six SPDT	<ul> <li>NT Magnum Switches - 8 pt. Terminal Strip</li> <li>NJ2-V3-N NAMUR Inductive Proximity Sensors - 8 pt. Terminal Strip</li> <li>Module (Two SPST Bifurcated Reeds), Diagnostic LEDs - 12 pt. Terminal Strip</li> <li>DT Magnum Cobra - 12 pt. Terminal Strip, High Cover, 4 Conduits</li> <li>DT Magnum Cobra - 12 pt. Terminal Strip, High Cover, 4 Conduits</li> <li>DT Magnum Switches - 16 pt. Terminal Strip</li> <li>F NJ2-V3-N NAMUR Inductive Proximity Sensors - 16 pt. Terminal Strip</li> <li>DT Magnum Switches - 24 pt. Terminal Strip</li> <li>DT Magnum Cobra, Rhodium Contacts - 24 pt. Terminal Strip, High Cover, 4 Conduits</li> <li>DT Magnum Cobra, Rhodium Contacts - 24 pt. Terminal Strip, High Cover, 4 Conduits</li> <li>DT Magnum Cobra, Rhodium Contacts - 24 pt. Terminal Strip, High Cover, 4 Conduits</li> <li>DT Magnum Switches - 24 pt. Terminal Strip, High Cover, 4 Conduits</li> <li>I Magnum Switches - 24 pt. Terminal Strip, High Cover, 4 Conduits</li> <li>I Magnum Switches, Rhodium Contacts - 24 pt. Terminal Strip, High Cover</li> <li>I Magnum Switches, Rhodium Contacts - 24 pt. Terminal Strip, High Cover</li> <li>I Magnum Switches, Rhodium Contacts - 24 pt. Terminal Strip, High Cover, 4 Conduits</li> </ul>					
						ion Transmitter					
						None 4-20 mA Digital Signal Position Transmitter - <b>available only w/ 12 pt. TS and 2M06, 2M12, 2M08 OR</b> <b>w/ 16 pt. TS 4M06, 4M12, 4M08 and high cover</b>					
						Unit Specialty Codes (leave blank for standard builds)					
						M0000INMETRO Certification00124316 Stainless Steel Enclosure00692**120 VAC Heater Resistor0071012 pt. Terminal Strip00816**24 VDC Heator Resistor01351SIL 3 - some resistrations may apply; contact Sales					
9479	Ν	BY	2B	2M12	DS	= Model number 9479NBY2B2M12DS					

# ORDERING NOTES

\*Eliminator Fitting is 1/2" NPT (M) for the purpose of mounting an after market solenoid valve. \*\*For INMETRO replace first digit of the speciality code with M; For e.g. 9479NBY2B2M12DS**M**0124 \*\*\*T Ratings for optional heater resistors changes to T2C.

## POSITION SWITCH APPLICATION NOTES

For 120 VAC service, M13 (MagPAC) is recommended.

For 24 VDC service below 1 watt, M12 (Rhodium Magnum Switches) or M13 (MagPAC) is recommended. For 24 VDC service above 1 watt, M06 (Tungsten Magnum Switches) or M13 (MagPAC) is recommended.

# **ACCUTRAK™** EXPLOSIONPROOF ROTARY POSITION MONITORS

MODEL 360/366 SELECTION GUIDE

<b>D</b> 14									
<b>Base M</b> 360	Aluminum enclosure								
366	Stainless steel enclosure								
	Shaft Output								
	S Standard (double-D with 1/4" Flats) N NAMUR								
	Beacon								
	BY Black/Open - Yellow/Closed (Standard) RG Red/Closed - Green/Open								
				Con					
	2B Two 3/4" NPT (F) 3B Three 3/4" NPT (F) 2E One 3/4" NPT (F) & One 1/2" NPT (M) Eliminator Fitting* 3E Two 3/4" NPT (F) & One 1/2" NPT (M) Eliminator Fitting Position Switches								
					2M04 2M06 2M12 2M17 2M18 4M02 4M06	Two DF Two SP Two SP Two DF Two DF Four SF Four SF	2DT Mechanical Switches - 10 pt. Terminal Strip 2DT Mechanical Switches - 14 pt. Terminal Strip 2DT Magnum Switches - 10 pt. Terminal Strip 2DT Magnum Switches with Rhodium Contacts - 10 pt. Terminal Strip 2DT Magnum Cobra Switches - 14 pt. Terminal Strip 2DT Magnum Cobra Switches with Rhodium Contacts - 14 pt. Terminal Strip 2DT Mechanical Switches - 14 pt. Terminal Strip 2DT Mechanical Switches - 14 pt. Terminal Strip 2DT Magnum Switches - 14 pt. Terminal Strip 2DT Magnum Switches - 14 pt. Terminal Strip 2DT Magnum Switches with Rhodium Contacts - 14 pt. Terminal Strip		
	Position Transmitter								
						00 DS	None 4-20 mA Digital Signal Position Transmitter - 10 pt. Terminal Strip - <b>available only w/ 2M02, 2M06, 2M12</b> switch options		
360		Ν	BY	2B	2M12	00	= Model number <b>360NBY2B2M1200</b>		

## ORDERING NOTES

\*Eliminator Fitting is 1/2" NPT (M) for the purpose of mounting an after market solenoid valve.

#### Translations

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