

ACCUTRAK™ 1040/9358/9044/9467 ROTARY POSITION MONITORS
WEATHERPROOF – NEMA

Weatherproof rotary position monitors with the option of high-performance resin, powder-coated aluminium and stainless steel enclosures. Impervious to moisture, chemicals and solvents, they offer a range of switching options



TECHNICAL DATA

Agency approvals

Enclosure standards (ANSI/NEMA 250)

Models 1040, 9358, 2004, 9044, 9467 NEMA 4, 4X

Switches

Models 1040

Model 2004

V3 mechanical, SPDT

V3 mechanical, SPDT

DPDT (Form CC) mechanical

Model 9358

Magnum (hermetically sealed proximity type) switches

Model 9044

Magnum (hermetically sealed proximity type) switches

MagPAC bifurcated switch pack

Model 9467

V3 mechanical, SPDT

V3 mechanical, gold plated contacts, SPDT

DPDT (Form CC) mechanical

Enclosures

Models 1040, 9358

Engineered resin

Models 2004, 9044

Aluminum

Model 9467

Engineered resin, Stainless steel (option)

FEATURES

Models 1040/9358/2004/9044/9467

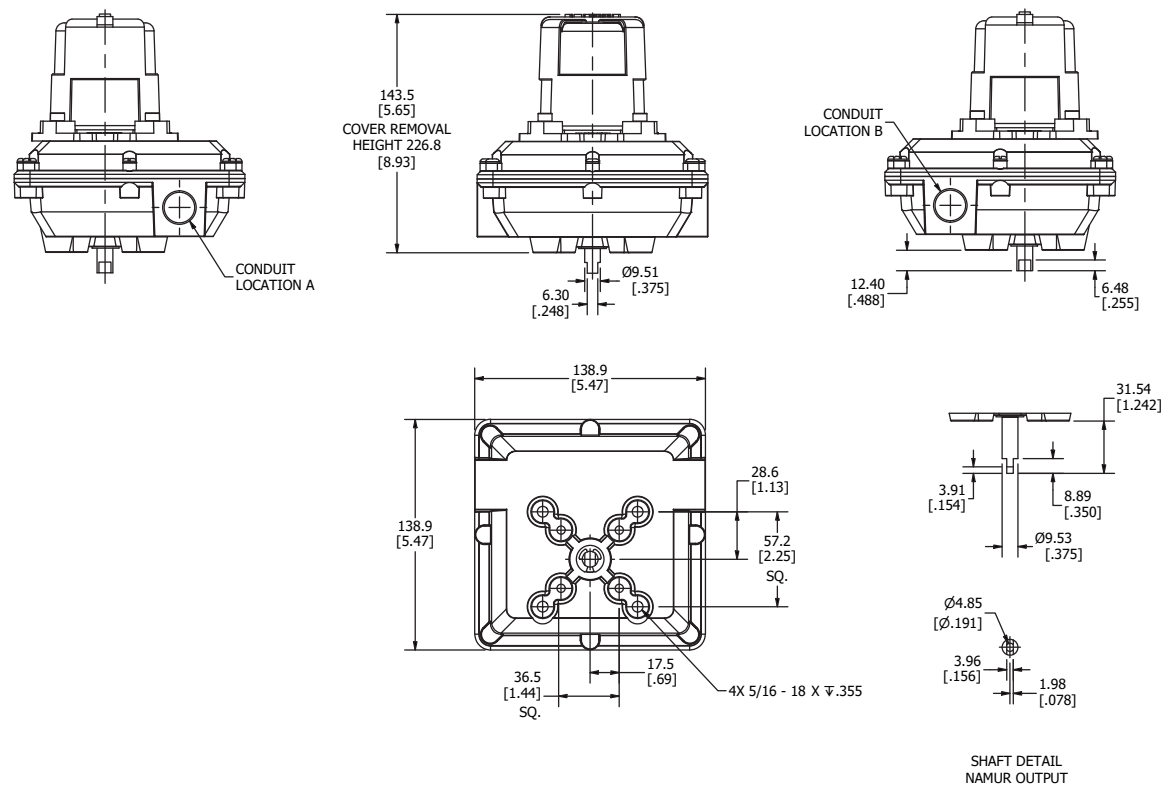
- Touch set cams are hand adjustable, spring loaded and self-locking providing quick calibration of position switches and sensors.
- Terminal strips are pre-wired and numbered with generous working space for ease of use.
- Strong durable Beacon™ offers 360° visual indication available in a choice of 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.
- 4-20 mA position transmitter option.
- Engineered resin enclosure is robust yet lightweight; allows broad operating temperatures and provides exceptional chemical, UV and impact resistance.
- Aluminum enclosures with ultra-low copper content (0.2% maximum) ensure robust performance in corrosive environments.
- Heavy Duty 316 stainless steel enclosure available.

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.

ACCUTRAK™ 1040/9358/9044/9467 ROTARY POSITION MONITORS **WEATHERPROOF – NEMA**

MODELS 1040/9358 DIMENSIONS



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

TECHNICAL SPECIFICATIONS

Materials of construction

Enclosure	Engineered resin
Shaft and hardware	Stainless steel
Internal threaded inserts	Brass
Bushing	Oil impregnated bronze
Beacon visual indicator	Co-polyester

Drive shaft

Standard	Double-D with ¼" A/F
Option	NAMUR standard VDI/VDE 3845

Available switches

Model 1040	V3 mechanical switches, SPDT
Model 9358	Magnum, SPDT hermetically sealed switches with tungsten contacts
	Magnum, SPDT hermetically sealed switches with rhodium contacts

Options:

Model 9358	Stainless steel enclosure (size & dimensions differ)
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NOTES

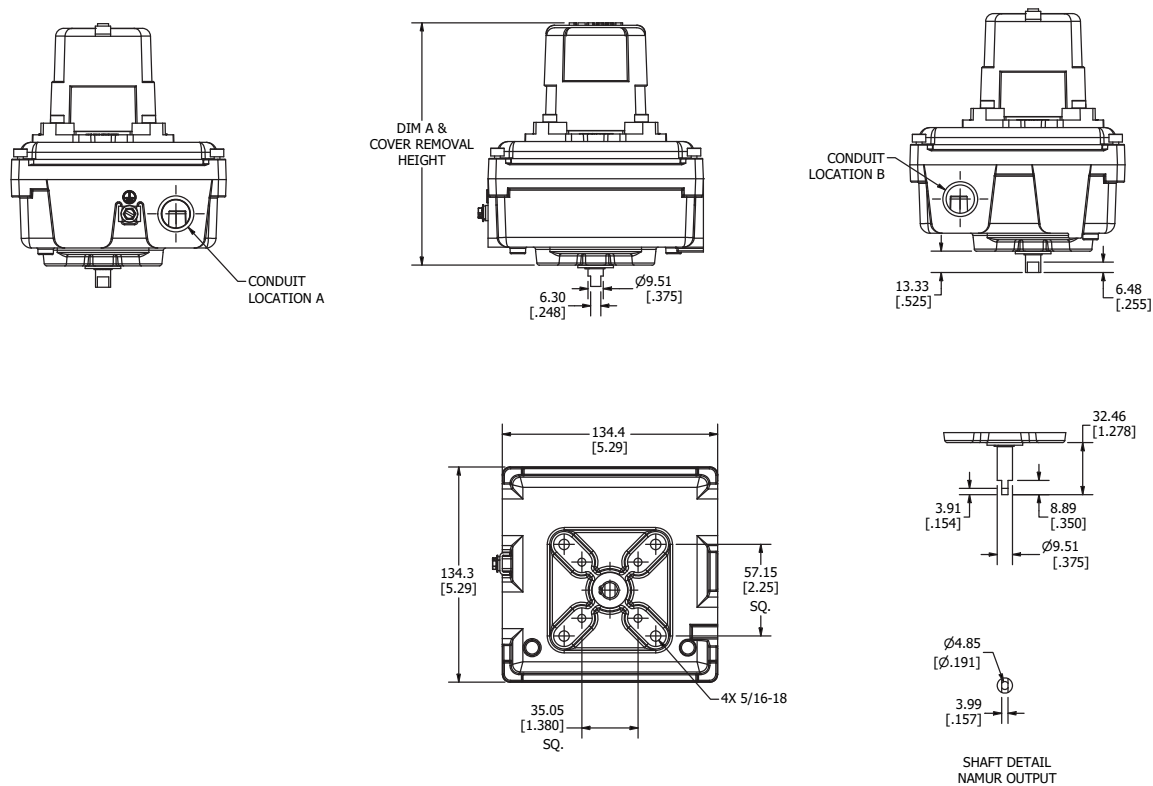
1. See selection guide for standard conduit entries.
2. See switches and sensors data sheet for further information.
3. Please consult your sales office for any other requirements.



ACCUTRAK™ 1040/9358/9044/9467 ROTARY POSITION MONITORS

WEATHERPROOF – NEMA

MODELS 2004/9044 DIMENSIONS



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

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

Standard	Double-D with 1/4" A/F
Option	NAMUR standard VDI/VDE 3845

Available switches

Model 2004	V3 mechanical switches, SPDT DPDT (Form CC) mechanical switches
Model 9044	Magnum, SPDT hermetically sealed switches with tungsten contacts Magnum, SPDT hermetically sealed switches with rhodium contacts MagPAC bifurcated switch pack

Options

4-20 mA Position Transmitter
Stainless steel enclosure

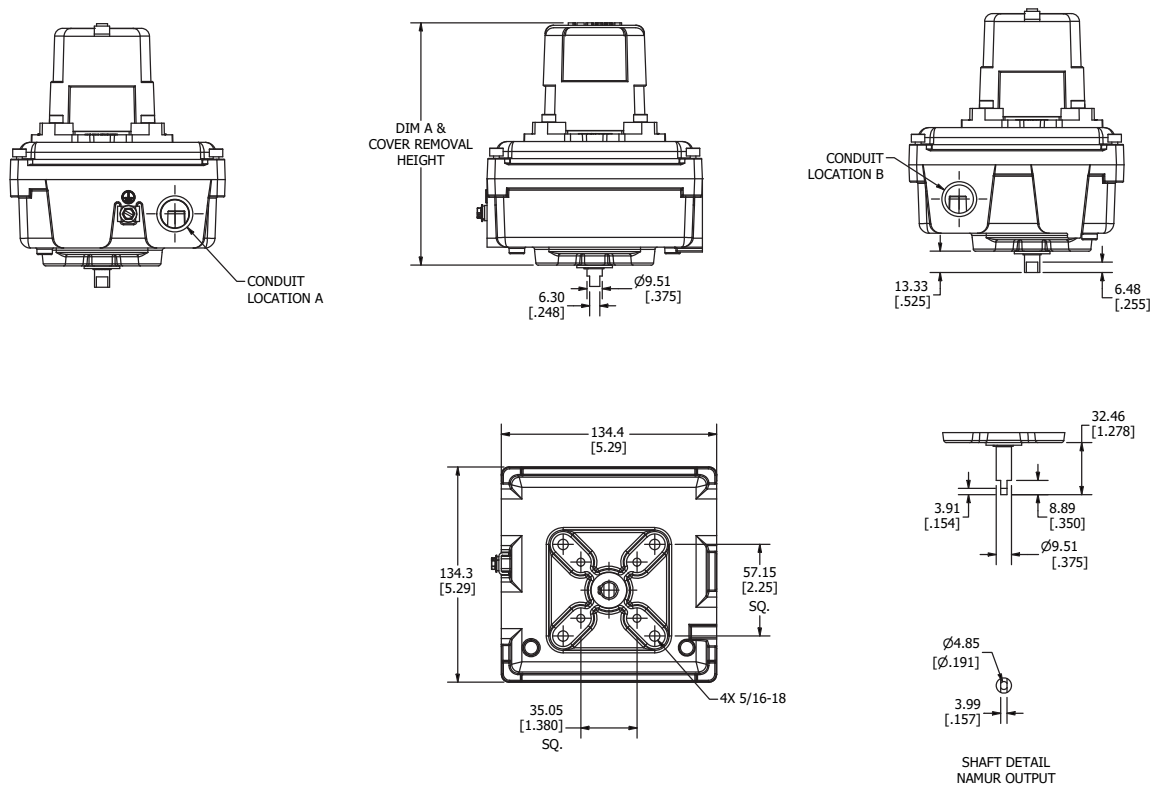
NOTES

1. See selection guide for standard conduit entries.
2. See switches and sensors data sheet for further information.
3. Please consult your sales office for any other requirements.



ACCUTRAK™ 1040/9358/9044/9467
ROTARY POSITION MONITORS
 WEATHERPROOF – NEMA

MODEL 9467 DIMENSIONS



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

TECHNICAL SPECIFICATIONS

Materials of construction

Enclosure	Engineered polyamide resin
Shaft and hardware	Stainless steel
Bushing	Nylon
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, SPDT
	V3 mechanical, gold plated contacts, SPDT
	DPDT (Form CC) mechanical

Options

	4-20 mA position transmitter
	Stainless steel enclosure

NOTES

1. See selection guide for standard conduit entries.
2. See switches and 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™ WEATHERPROOF ROTARY POSITION MONITORS

MODELS 1040/2004 SELECTION GUIDE

Base model									
1040	Engineered Resin Enclosure								
2004	Aluminum Enclosure								
Shaft output									
S Standard (Double-D with 1/4" Flats)									
D Direct mount to Keystone F89 actuators									
N NAMUR									
Beacon									
BY BM2-Y (Black Closed/Yellow Open - Standard)									
RG BM2-RG (Red Closed/Green Open)									
FE BM2-Y-FE (French/English)									
B1 BM3-1 (3-way B1 Flowpath)									
B3 BM3-3 (3-way B3 Flowpath)									
B5 BM3-5 (3-way B5 Flowpath)									
B7 BM3-7 (3-way B7 Flowpath)									
B9 BM3-7 (3-way B9 Flowpath)									
FC Flat Cover									
Conduit									
2A Two 1/2" NPT (F)									
Position switches									
2M02 Two SPDT mechanical switches - 8 pt. Terminal Strip									
2M04 Two DPDT mechanical switches - 16 pt. Terminal Strip (Only Available for 2004)									
Position Transmitter									
00 None									
DS 4-20 mA Digital Signal Position Transmitter - 12 pt. Terminal Strip w/2M02 (Only Available for 2004)									
Unit Specialty Codes <i>(leave blank for standard builds)</i>									
00710 12 - pt. Terminal Strip									
01351 SIL 3 (Only Available for 1040)									
000BR <i>For Brazilian Approvals, refer to OG-BRZ-026</i>									
2004	N	BY	2A	2M02	00	= Model number 2004NBY2A2M0200			

NOTES

- 1. Please contact your sales office for guidance on selecting the best possible combination for your control and monitoring requirements.
- 2. See Hazardous area classification technical bulletin for further information on global standards.

ACCUTRAK™ WEATHERPROOF ROTARY POSITION MONITORS
 MODELS 9358/9044 SELECTION GUIDE

Base model									
9358	Engineered Resin Enclosure								
9044	Aluminum Enclosure								
Shaft output									
S	Standard (Double-D with 1/4" Flats)								
D	Direct mount to Keystone F89 actuators								
N	NAMUR								
Beacon									
BY	BM2-Y (Black Open/Yellow Closed - Standard)				B5	BM3-5 (3-way B5 Flowpath)			
RG	BM2-RG (Red Closed/Green Open)				B7	BM3-7 (3-way B7 Flowpath)			
FE	BM2-Y-FE (French/English)				B9	BM3-9 (3-way B9 Flowpath)			
B1	BM3-1 (3-way B1 Flowpath)				LP	BM2-Y-LP (Low Profile Standard)			
B3	BM3-3 (3-way B3 Flowpath)				FC	Flat Cover			
Conduit									
2A	Two 1/2" NPT (F)								
Position switches									
2M06	Two SPDT Magnum Switches - 8 pt. Terminal Strip								
2M12	Two SPDT Magnum Switches with Rhodium Contacts - 8 pt. Terminal Strip								
2M13	MagPAC Module (Two SPST Bifurcated Switches with LEDs; (Only Available for 9044)								
Position Transmitter									
00	Not available								
DS	4-20 mA Digital Signal Position Transmitter - 12 pt. Terminal Strip								
Unit Specialty Code <i>(leave blank for standard builds)</i>									
00124	316 Stainless Steel Enclosure (for 9044 Only)								
00710	12 - pt. Terminal Strip								
01351	SIL 3 - some restrictions may apply; consult Sales								
000BR	For Brazilian Approvals refer to OG-BRZ-024								
9044	N	BY	2A	2M13	00	= Model number 9044NBY2A2M1300			

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
 Please contact your sales office for guidance on selecting the best possible combination for your control and monitoring requirements.
 See Hazardous area classification technical bulletin for further information on global standards.

ACCUTRAK™ WEATHERPROOF ROTARY POSITION MONITORS
 MODEL 9467 SELECTION GUIDE

Base model						
9467	Engineered Resin Enclosure					
Shaft output						
S	Standard (Double-D with 1/4" Flats)					
D	Direct mount to Keystone F89 actuators					
N	NAMUR					
Beacon						
BY	BM2-Y (Black Open/Yellow Closed Standard)					
RG	BM2-RG (Red Closed/Green Open)					
FE	BM2-Y-FE (French/English)					
B1	BM3-1 (3-way B1 Flowpath)					
B3	BM3-3 (3-way B3 Flowpath)					
B5	BM3-5 (3-way B5 Flowpath)					
B7	BM3-7 (3-way B7 Flowpath)					
B9	BM3-9 (3-way B9 Flowpath)					
LP	BM2-Y-LP (Low Profile Standard)					
FC	Flat cover					
Conduit						
2A	Two 1/2" NPT (F)					
Position switches						
2M02	Two SPDT Mechanical V3 Switches - 8 pt. Terminal Strip					
2M04	Two DPDT Mechanical Switches - 16 pt. Terminal Strip					
2M09	Two SPDT Mechanical Switches with Gold Plated Contacts - 8 pt. Terminal Strip					
4M02	Four SPDT Mechanical V3 Switches - 16 pt. Terminal Strip					
4M09	Four SPDT Mechanical Switches with Gold Plated Contacts - 16 pt. Terminal Strip					
Position Transmitter						
00	None					
DS	4-20 mA Digital Signal Position Transmitter - 12 pt. TS with 2M02 and 2M09					
Unit Specialty Code (leave blank for standard builds)						
00710	12 - pt. Terminal Strip					
00124	316 Stainless Steel Enclosure					
9467	N	BY	2A	2M02	00	= Model number 9467NBY2A2M0200

NOTES

1. Please contact your sales office for guidance on selecting the best possible combination for your control and monitoring requirements.
2. See Hazardous area classification technical bulletin for further information on global standards.
3. For stainless steel enclosure, please add '00124' to end of your part number built with the above selection guide.



Translations

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WESTLOCK CONTROLS

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