

# QUANTUM<sup>TM</sup> ROTARY CONTROL MONITORS

INTRINSICALLY SAFE – ATEX/IEC

Fully integrated rotary valve control monitors that are certified to intrinsically safe standards. They offer a choice of enclosure materials, switching options and single or dual coil Falcon solenoid valves



### **TECHNICAL DATA**

Agency approvals Area classification (ATEX/IEC) 3600/8600 series

Enclosure standards (IEC) 3600/8600 series

Enclosures 3600/8600 series

Falcon solenoid valves C<sub>v</sub>

Materials

Ex II \*GD Exia II\* T\* G\* Ex t IIIC T135°C Da IP6X

Pepperl + Fuchs inductive NAMUR sensors V3 SPDT mechanical switches, with gold-plated contacts Magnum, SPDT (hermetically sealed proximity type) switches with rhodium contacts

Ż DISTRIBUTOR NORWAY | ≥ post@jsc.no | ↑ www.jsc.no

Engineered resin Aluminum Stainless steel

Choice of 1.1, 3.5 Aluminum and stainless steel

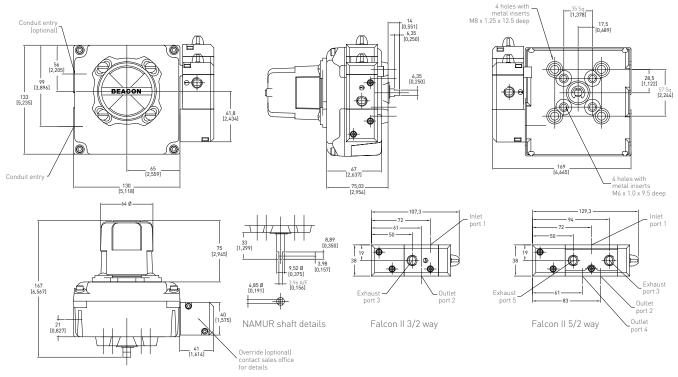
### FEATURES

- Intrinsically Safe design meeting a wide range of worldwide approvals.
- Quantum enclosures integrate position sensors and low power solenoid valves into a single unit.
- Solenoid coils integrated within Quantum housing.
- Choice of factory pre-wired 3/2 and 5/2 way Falcon solenoid valves.
- Inductive NAMUR sensor rated for IS applications.
- Magnum switches with rhodium contacts for longer contact life.
- Strong durable Beacon<sup>™</sup> offers 360° visual indication in a choice of styles and colors.
- 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 for ease of use.
- Additional conduit for easy field wiring and mounting accessories as standard.
- Wide range of switches and sensors.
- Standardized mounting pattern for easy adaptation to common bracketry.
- Range of drive shaft options.
- Engineered resin enclosure is robust, lightweight and provides exceptional chemical, UV and impact resistance.
- Aluminum enclosures with ultra-low copper content (0.2% maximum) suitable for corrosive environments.
- Rugged stainless steel option.
- IP rated plugs certified where applicable.

### **GENERAL APPLICATION**

Quantum control monitors combine consistent and accurate valve monitoring with the control of automation process valves using integrated position sensors and low power solenoid valves in a single compact unit.

### 3600 SERIES RESIN ENCLOSURE DIMENSIONS



Dimensions in mm, imperial dimensions (inches) in parenthesis

### **TECHNICAL SPECIFICATIONS**

Materials of construction	
Enclosure	Engineered 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	
	Pepperl + Fuchs model NJ2-V3-N
	V3 SPDT mechanical switches, with gold-plated contacts
	Magnum, SPDT (hermetically sealed proximity type) switches
	with rhodium contacts

## SOLENOID VALVES

The Falcon range of solenoid valves allows you to choose the material, voltage, number of ports, number of coils and  $C_{\rm v}$  to best suit your application. See the Falcon II data sheet for more information.

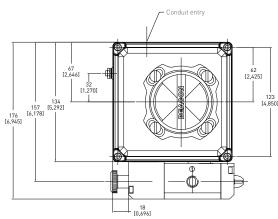
### NOTES

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

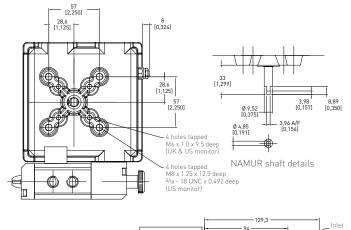


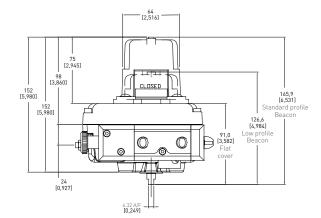
# QUANTUM™ ROTARY CONTROL MONITORS

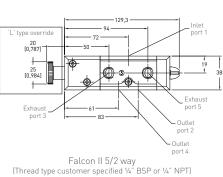
INTRINSICALLY SAFE - ATEX/IEC











Dimensions in mm, imperial dimensions (inches) in parenthesis

### TECHNICAL SPECIFICATIONS Materials of construction

Enclosure	Aluminum with powder coat finish
	Stainless steel with electropolished finish
Shaft and hardware	Stainless steel
Bushing	PTFE (stainless steel)
	Oil impregnated bronze (aluminum enclosure)
Beacon visual indicator	Co-polyester
Drive shaft	
Westlock standard	Double-D with ¼" A/F
NAMUR standard	NAMUR standard VDI/VDE 3845
Available switches	
	Pepperl + Fuchs model NJ2-V3-N
	V3 SPDT mechanical switches, with gold-plated contacts
	Magnum, SPDT (hermetically sealed proximity type) switches
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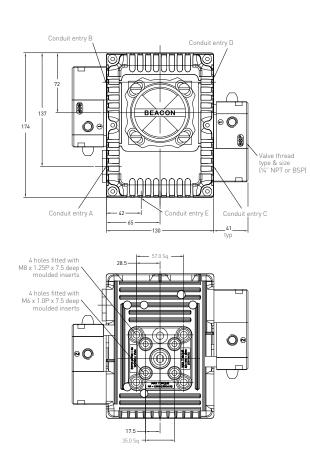
### SOLENOID VALVES

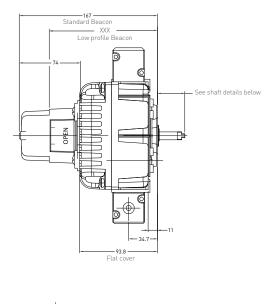
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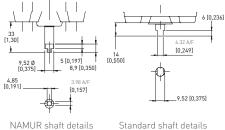


### QUANTUM™ ROTARY CONTROL MONITORS INTRINSICALLY SAFE – ATEX/IEC

8600 SERIES RESIN ENCLOSURE DIMENSIONS







Dimensions in mm, imperial dimensions (inches) in parenthesis

TECHNICAL SPECIFICATIONS	
Materials of construction	
Enclosure	Engineered 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	
	Pepperl + Fuchs model NJ2-V3-N
	V3 SPDT mechanical switches, with gold-plated contacts
	Magnum, SPDT (hermetically sealed proximity type) switches with rhodium contacts

### SOLENOID VALVES

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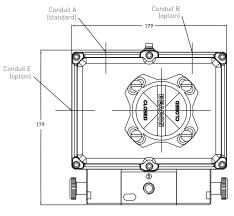
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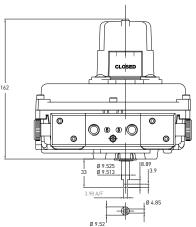
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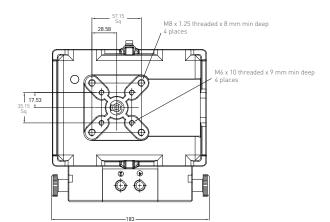


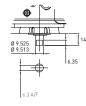
### QUANTUM™ ROTARY CONTROL MONITORS INTRINSICALLY SAFE – ATEX/IEC

### 8600 SERIES ALUMINUM AND STAINLESS STEEL ENCLOSURE DIMENSIONS









Standard shaft details

Dimensions in mm, imperial dimensions (inches) in parenthesis

### TECHNICAL SPECIFICATIONS Materials of construction

Materials of construction	
Enclosure	Aluminum with powder coat finish
	Stainless steel with electropolished finish
Shaft and hardware	Stainless steel
Bushing	PTFE (stainless steel)
	Oil impregnated bronze (aluminum enclosure)
Beacon visual indicator	Co-polyester
Drive shaft	
Westlock standard	Double-D with ¼" A/F
NAMUR standard	NAMUR standard VDI/VDE 3845
Available switches	
	Pepperl + Fuchs model NJ2-V3-N
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### NOTES

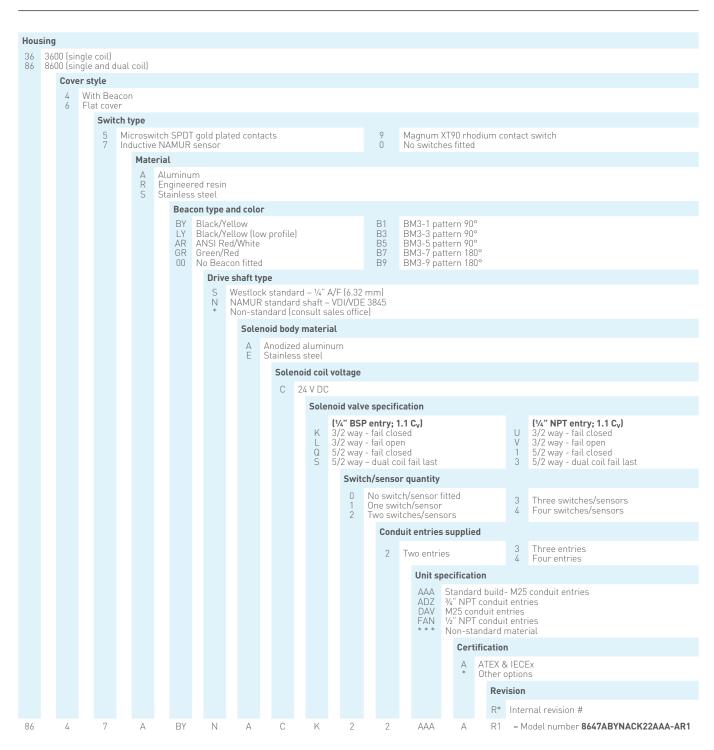
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### SOLENOID VALVES

The Falcon range of solenoid valves allows you to choose the material, voltage, number of ports, number of coils and  $C_v$  to best suit your application. See the Falcon II data sheet for more information.

### **QUANTUM™** INTRINSICALLY SAFE ROTARY CONTROL MONITORS

3600/8600 SERIES SELECTION GUIDE



#### 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.