

# QUANTUM™ 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

Ex II \*GD

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Ex t IIIC T135°C Da IP6X

Enclosure standards (IEC)

3600/8600 series

Pepperl + Fuchs inductive NAMUR sensors

V3 SPDT mechanical switches, with gold-plated contacts Magnum, SPDT (hermetically sealed proximity type)

switches with rhodium contacts

Enclosures

3600/8600 series Engineered resin

Aluminum Stainless steel

Falcon solenoid valves

Choice of 1.1, 3.5

Materials Aluminum and stainless steel

#### **FEATURES**

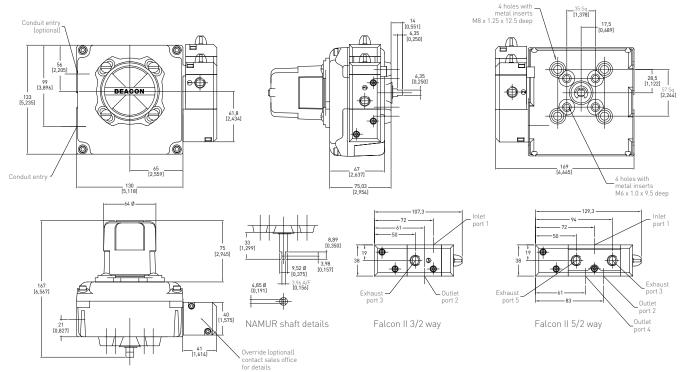
- Intrinsically Safe design meeting a wide range of worldwide approvals.
- Quantum enclosures integrate position sensors and low power solenoid valves into a single unit.
- Solenoid coils integrated within Quantum housing.
- Choice of factory pre-wired 3/2 and 5/2 way Falcon solenoid valves.
- Inductive NAMUR sensor rated for IS applications.
- Magnum switches with rhodium contacts for longer contact life.
- Strong durable Beacon™ 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.

www.westlockcontrols.com A business of Crane Co. VCTDS-0051-EN 17/10

## 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 1/4" 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**

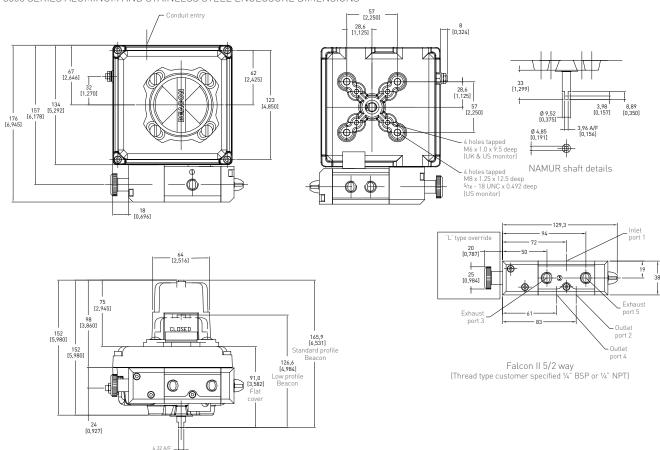
The Falcon range of solenoid valves allows you to choose the material, voltage, number of ports, number of coils and  $C_{\nu}$  to best suit your application. See the Falcon II data sheet for more information.

#### 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



#### 3600 SERIES ALUMINUM AND STAINLESS STEEL ENCLOSURE DIMENSIONS



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 1/4" 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		

### NOTES

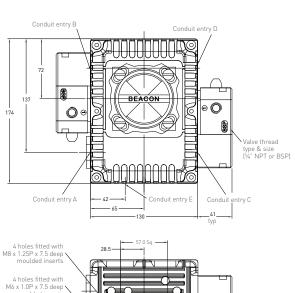
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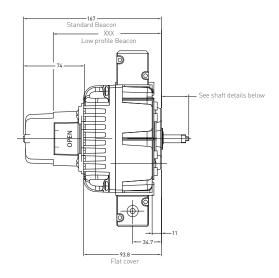
#### **SOLENOID VALVES**

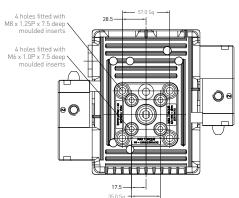
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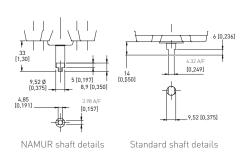


#### 8600 SERIES RESIN ENCLOSURE DIMENSIONS









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 1/4" 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	

#### NOTES

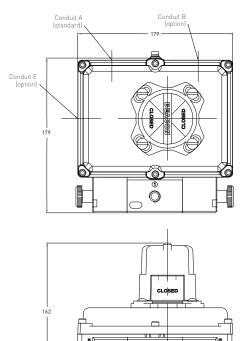
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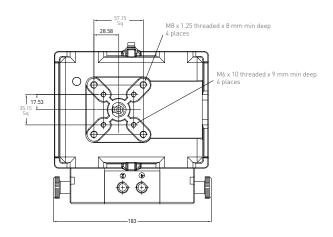
### **SOLENOID VALVES**

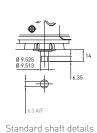
The Falcon range of solenoid valves allows you to choose the material, voltage, number of ports, number of coils and  $C_{\rm V}$  to best suit your application. See the Falcon II data sheet for more information.



## 8600 SERIES ALUMINUM AND STAINLESS STEEL ENCLOSURE DIMENSIONS







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 1/4" A/F		
NAMUR standard	NAMUR standard VDI/VDE 3845		
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#### **SOLENOID VALVES**

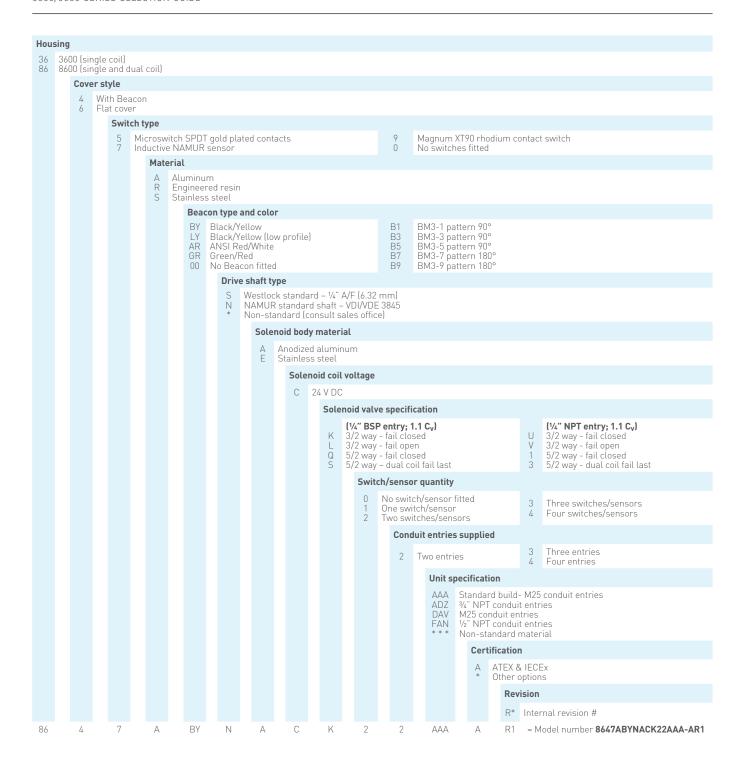
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## NOTES

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## 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.

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