

# 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

Exia II\* T\* G\*

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**

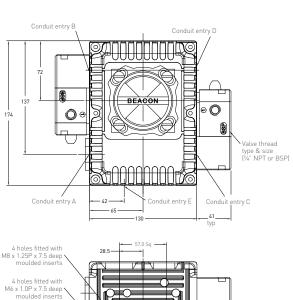
- Intrinsically Safe design meeting a wide range of worldwide approvals.
- Quantum enclosures integrate position sensors and low power solenoid valves into a single unit.
- Solenoid coils integrated within Quantum housing.
- Choice of factory pre-wired 3/2 and 5/2 way Falcon solenoid valves.
- Inductive 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.

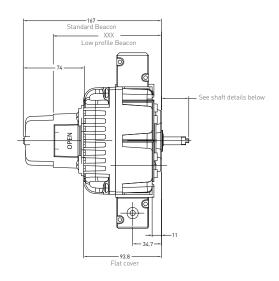
### GENERAL APPLICATION

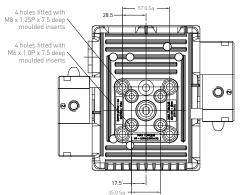
Quantum control monitors combine consistent and accurate valve monitoring with the control of automation process valves using integrated position sensors and low power solenoid valves in a single compact unit.

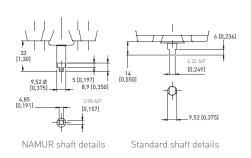
www.westlockcontrols.com A business of Crane Co. VCTDS-0051-EN 17/10

#### 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

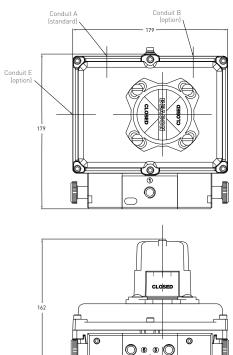
- 1. See selection guide for standard conduit entries
- 2. See switches & sensors data sheet for further information
- 3. Please consult your sales office for any other requirements

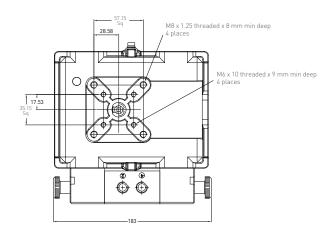
## **SOLENOID VALVES**

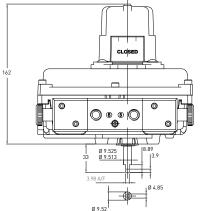
The Falcon range of solenoid valves allows you to choose the material, voltage, number of ports, number of coils and  $C_{\rm V}$  to best suit your application. See the Falcon II data sheet for more information.

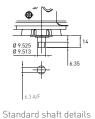


## 8600 SERIES ALUMINUM AND STAINLESS STEEL ENCLOSURE DIMENSIONS









Dimensions in mm, imperial dimensions (inches) in parenthesis

## **TECHNICAL SPECIFICATIONS**

# Materials of construction

Aluminum with powder coat finish
Stainless steel with electropolished finish
Stainless steel
PTFE (stainless steel)
Oil impregnated bronze (aluminum enclosure)
Co-polyester
Double-D with 1/4" A/F
NAMUR standard VDI/VDE 3845
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**

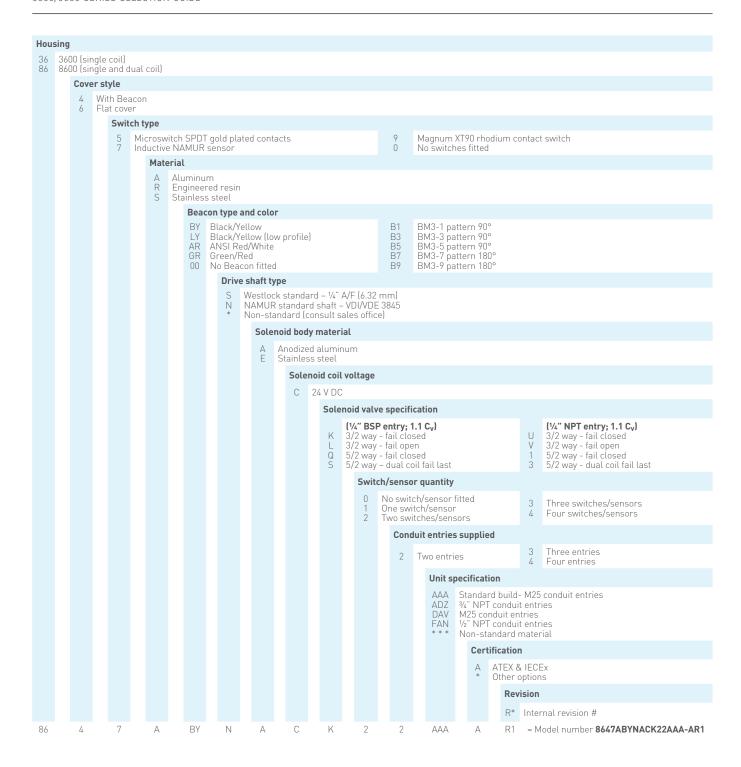
The Falcon range of solenoid valves allows you to choose the material, voltage, number of ports, number of coils and  $C_v$  to best suit your application. See the Falcon II data sheet for more information.

# NOTES

- 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™ 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.