

QUANTUM™ ROTARY CONTROL MONITORS

INCREASED SAFETY/ENCAPSULATION – ATEX/IEC

Fully integrated and encapsulated rotary valve control monitors. Simple to install, they offer a wide range of single or dual coil Falcon solenoid valves



TECHNICAL DATA

Agency approvals Area classification (ATEX/IEC)

Enclosure standards (IEC) 3700/8700 series **Switches** 3700/8700 series

Enclosures 3700/8700 series

Falcon solenoid valves C_v Materials Ex II 2GD Ex mb e IIC T* Gb Ex tb IIIC T*°C Db IP6X

IP66/67

Magnum SPDT (hermetically sealed proximity type) switches

Engineered resin Aluminum Stainless steel

Choice of 1.1, 3.5 Aluminum and stainless steel

FEATURES

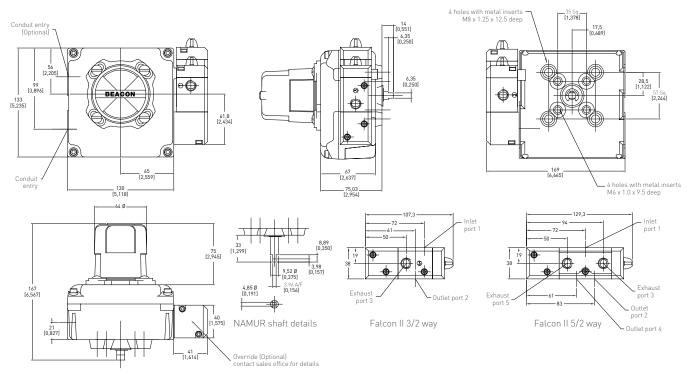
- Increased Safety/Encapsulation design meeting a wide range of worldwide approvals.
- Cost effective alternative to Exd units in specific applications.
- Quantum enclosures integrate position sensors and low power solenoid valves into a single unit.
- Solenoid coils integrated within Quantum housing.
- Choice of factory pre-wired 3/2 and 5/2 way Falcon solenoid valves.
- 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.
- Robust stainless steel enclosure 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.

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3700 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	
	Magnum, SPDT hermetically sealed magnetic proximity
	switches, with tungsten 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

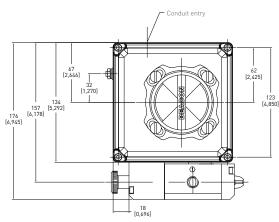
SOLENOID VALVES

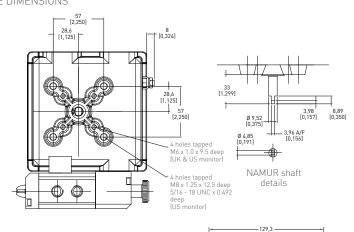
The Falcon range of solenoid valves allows you to choose the material, voltage, number of ports, number of coils and C_V to best suit your application. See the Falcon II data sheet for more information.



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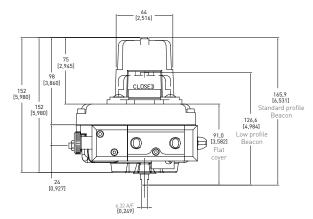
'L' type override

20 [0,787]

. 25 [0,984]

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Exhaust port 3





TECHNICAL SPECIFICATIONS

Materials of construction	
Enclosure	Aluminum with powder coat finish
	Stainless steel with electropolished finish
Shaft and hardware	Stainless steel
Bushing	Oil impregnated bronze (aluminum enclosure)
	PTFE (stainless steel 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	
	Magnum, SPDT hermetically sealed magnetic proximity
	switches, with tungsten contacts

SOLENOID VALVES

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Falcon II 5/2 way (Thread type customer specified ¼" BSP or ¼" NPT)

. 72

Inlet port 1

19

Exhaust

- Ooutlet port 4

Outlet port 4

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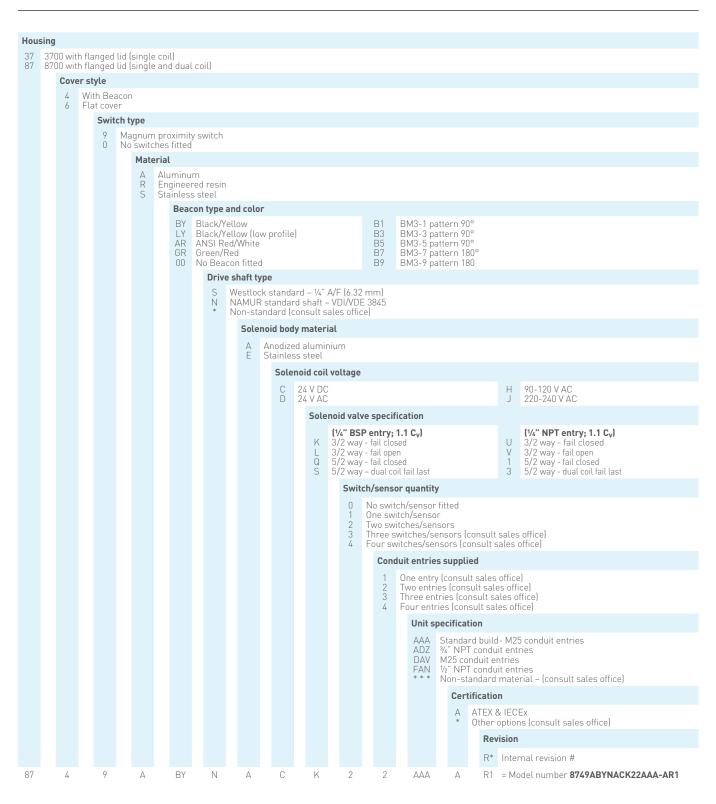
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3700/8700 SERIES SELECTION GUIDE



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.