

QUANTUM™ ROTARY CONTROL MONITORS

NON-INCENDIVE - NEC

Low power single or dual-coil rotary position control monitors certified for use in Division 2, non-incendive hazardous areas.



TECHNICAL DATA

Agency approvals

Area classification (NEC 500) Models 765/789/865

Enclosure standards (ANSI/NEMA 250)

All enclosures

Switches

Models 765/789/865

Enclosures

Models 765/865 Model 789 Models 789/865

Falcon solenoid valves

 C_{v}

Materials

Non-incendive Class I, Division 2, Groups A, B, C, D Class II and III Division 2 Groups E, F, G, T6, Ta = 40°C

Type 4, 4X

Magnum SPDT (hermetically sealed proximity type) switches

MagPAC bifurcated switch pack

Engineered resin Aluminum Stainless steel

Choice of 1.4 and 4.3

Brass, aluminum and stainless steel

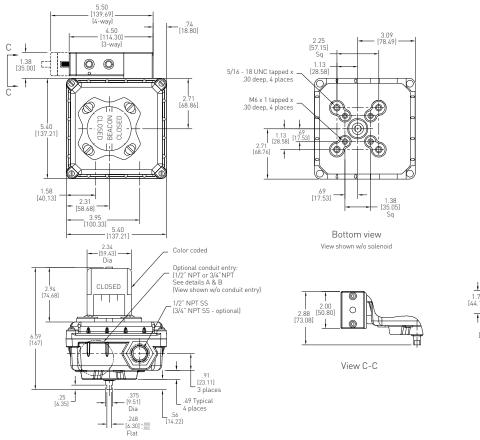
FEATURES

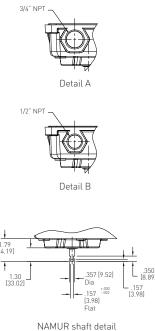
- Quantum enclosures integrate position sensors and low power solenoid valves into a single unit.
- Solenoid coils integrated within Quantum housing.
- Choice of factory pre-wired 3 and 4 way Falcon solenoid valves.
- Solenoid valves with a choice of C_v ratings and coil voltage.
- Strong durable Beacon™ 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.
- Standardized mounting pattern for easy adaptation to common bracketry.
- Robust stainless steel conduit entry inserts provide protection from excessive torque and reliable grounding.
- NAMUR shaft output compliant to VDI/VDE 3845 available.
- 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 enclosure.

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.

MODEL 765 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 1/4" A/F
NAMUR standard	NAMUR standard VDI/VDE 3845
Available switches	
	Magnum, SPDT hermetically sealed magnetic proximity
	switches, with tungsten contacts
	Magnum, SPDT hermetically sealed magnetic proximity
	switches, with rhodium contacts
	MagPAC Switch pack, SPST normally open bifurcated
	switches with LED indication

NOTES

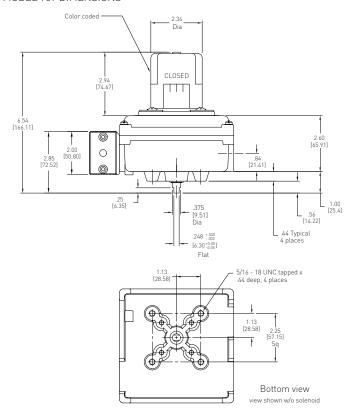
- 1. See selection guide for standard conduit entries
- 2. See switches & sensors data sheet for further information
- 3. Please consult your sales office for any other requirements

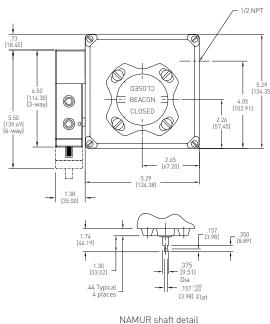
SOLENOID VALVES

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 data sheet for more information.



MODEL 789 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	
Westlock standard	Double-D with 1/4" A/F
NAMUR standard	NAMUR standard VDI/VDE 3845
Available switches	
	Magnum, SPDT hermetically sealed magnetic proximity switches with
	tungsten contacts
	Magnum, SPDT hermetically sealed magnetic proximity switches with
	rhodium contacts
	MagPAC Switch pack, SPST normally open bifurcated switches with
	LED indication
Options	
	Stainless steel enclosure

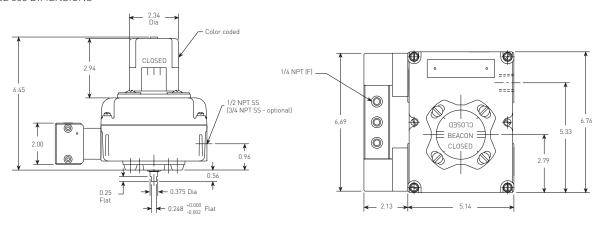
- 1. See selection guide for standard conduit entries
- 2. See switches & sensors data sheet for further information
- $3. \ \mbox{Please}$ consult your sales office for any other requirements

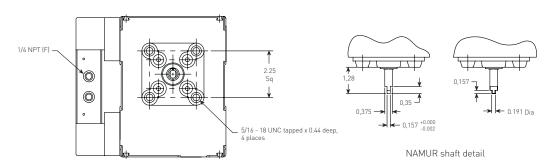
SOLENOID VALVES

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MODEL 865 DIMENSIONS





Dimensions in inches

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 1/4" A/F
NAMUR standard	NAMUR standard VDI/VDE 3845
Available switches	
	Magnum, SPDT hermetically sealed magnetic proximity switches with
	tungsten contacts
	Magnum, SPDT hermetically sealed magnetic proximity switches with
	rhodium contacts
	MagPAC Switch pack, SPST normally open bifurcated switches with
	LED indication

Stainless steel enclosure

NOTES

Options

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

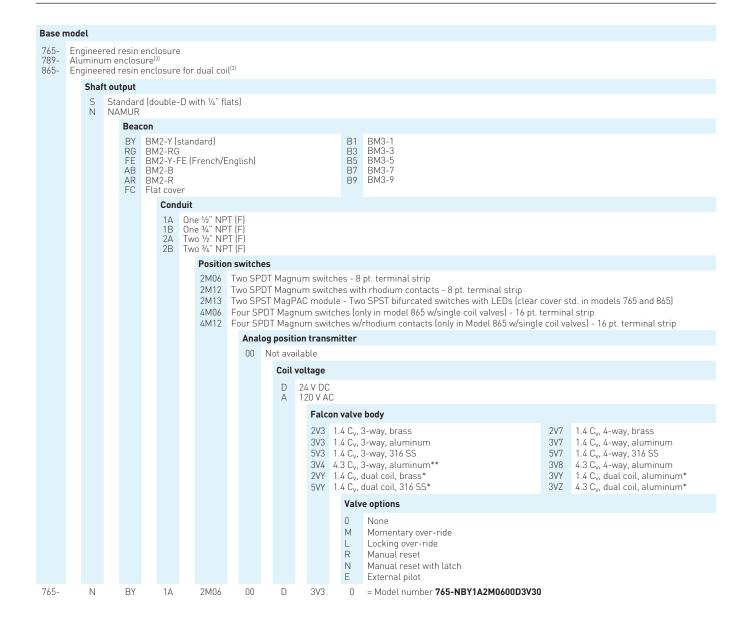
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MODELS 765/789/865 SELECTION GUIDE



NOTES

- * Dual coil valve body options only available with base model 865
- ** 3V4 valves are 3V8 valves with ports 2 & 3 plugged at factory for 3-way functionality
- 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 the end of your part number built with the above selection guide.

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 $\textbf{Westlock.} \ \text{We reserve the right to change designs and specifications without notice.}$