



Low Power Control Monitor for use in Intrinsically Safe Hazardous Areas

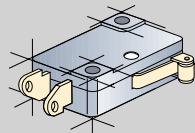
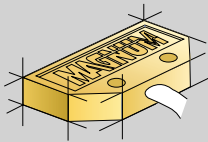
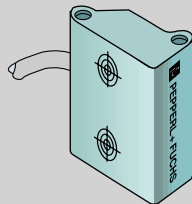
Quantum® Intrinsically Safe

Intrinsically safe Quantum® units meet class I, Groups A, B, C, & D and Class II, Groups E, F, & G, Division 1 and 2 requirements. Intrinsically safe Falcon™ solenoid valves operate through approved I.S. barriers at 12 VDC, 33 mA. and are available in a wide variety of body materials and Cv. ratings. P+F Kriterion sensors are internationally approved for intrinsically safe applications as are both Magnum® and mechanical sensors under their classification as "simple apparatus". Housed within a high impact engineered resin or aluminum enclosure and capable of operating in any position, Falcon solenoid valves elevate the integration of sensors and controls to a new level.



I.S. APPROVALS
FM - Class I, Division 1, Groups A - G
CENELEC - EEx ia IIC T6

Standard Sensor Options



P+F Kriterion 2000 Proximity Type (Solid State)

Intrinsically Safe, FM, CSA, PTB, CENELEC

Sensing Range	3mm
Electrical Version	D.C. Voltage 2 wire in accordance with DIN19234 (NAMUR)
Hysteresis	Approx 5%
Switching Frequency	1.5 KHz
Input Voltage Range	5-25 VDC
Output/Current Consumption	Cam Trigger Present: ≤ 1 mA Cam Trigger Absent: ≥ 3 mA (15 mA max)
Operating Temp.	-25°C to +100°C

MAGNUM® Proximity Sensor w/ Low Power Contacts

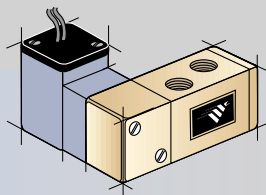
UL, CSA "Simple Apparatus", Hermetically Sealed, SPST or SPDT, Rhodium Contacts

Voltage	24 VDC Nominal
Nominal Contact Resistance	≤ .10 ohm
Operating Current Range	.5 mA to 1A
Power Range	10 mW to 25 W
Temperature Range	-40°F to 185°F

Micro-Switch V3 w/ Gold Contacts

UL, CSA "Simple Apparatus"

VDC	Contact Rating
12	100 mA Resistive
24	100 mA Resistive



COIL POWER SUPPLY

	COILS
Operating Voltage	24 VDC
Wattage	0.48 Watts*
Operating Current	33 mA*
Coil Resistance	380 Ohms

*When operated through approved I.S. barrier.

Quantum® Intrinsically Safe

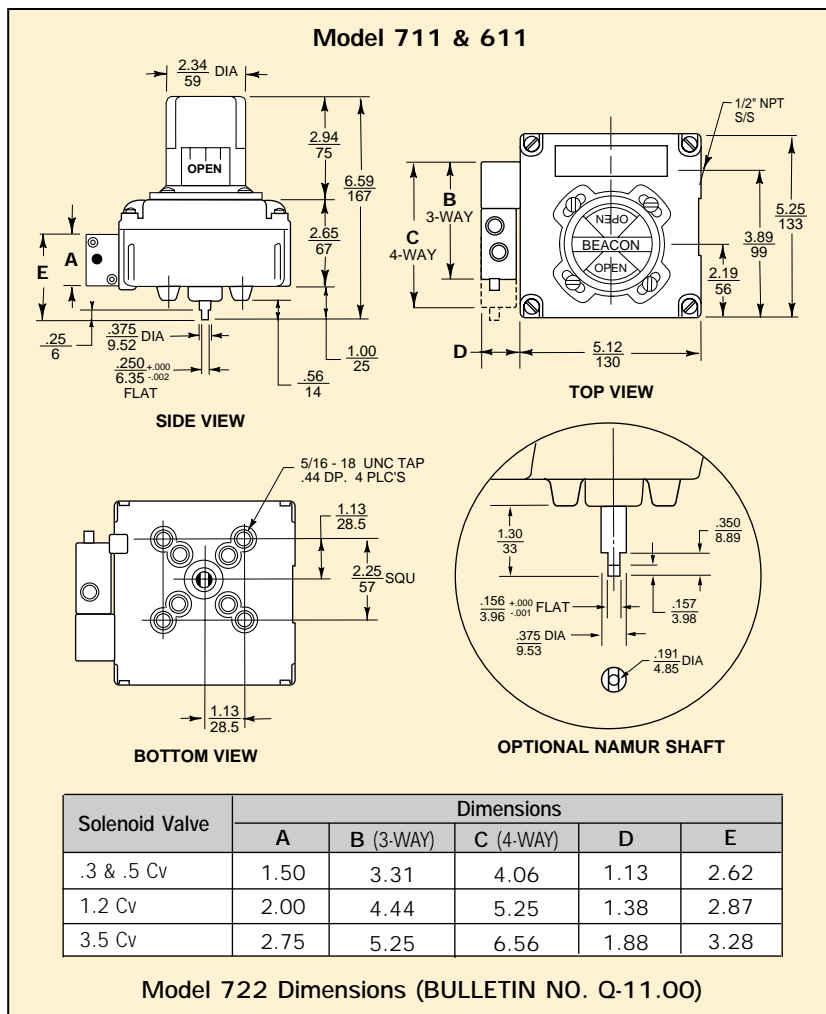
AREA CLASSIFICATIONS

NEMA 4, 4x
Class I, Groups A, B, C, D,
Class II, Groups E, F, G, Div. 1 & 2

ORDERING GUIDE (FALCON® SOLENOID)

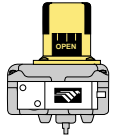



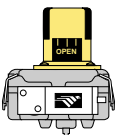



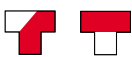
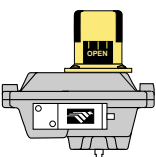



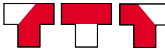
COILS	CV	Body	3-Way	4-Way
FIO 24 VDC 0.48 watts NOTE: I.S. valves must be operated through approved I.S. barriers. Entity Parameters V max=35V I max=300mA Capacitance=0 Inductance=0	.3 Cv	Brass	2100	2500
		Alum.	3100	3500
		303 S.S.	4100	4500
		316 S.S.	5100	5500
		Delrin	6100	6500
	.5 Cv	Brass	2200	2600
		Alum.	3200	3600
		303 SS	4200	4600
		316 S.S.	5200	5600
		Delrin	6200	6600
	1.2 Cv	Brass	2300	2700
		Alum.	3300	3700
303 S.S.		4300	4700	
316 S.S.		5300	5700	
3.5 Cv	Alum.	3400	3800	
	Delrin	6400	6800	
OPTIONAL FEATURES (See BULLETIN NO. Q-18.00)				

DIMENSIONS (inches/mm)



Note: Minimum operating pressure: 45 psi.

ORDERING GUIDE

QUANTUM™ LP	BEACON™	3-WAY BEACON™	SENSOR	SOLENOID (Falcon®)
711 Engineered Resin 	STANDARD (Black & Yellow) BY 	90° Rotation B1 	Magnum (SPDT) M12	Use above listing for ordering solenoid 
611 Engineered Resin w/ Latch Cover 	ANSI YELLOW (Inherently Hazardous) AY 	90° Rotation B3 	Kriterium M11	
	ANSI GREEN (Liquid-Low Hazard) AG 	90° Rotation B5 	Magnum (SPST) M10	
722 Aluminum 	ANSI BLUE (Gas-Low Hazard) AB 	180° Rotation B7 	Mech. (SPDT) w/ Gold Plated Contacts M9	
	ANSI RED (Fire Quenching) AR 	180° Rotation B9 		

NOTE: Model 711 and 611 Max. 2 Sensors, Model 722 Max. 4 Sensors

Ordering Example: Quantum LP Intrinsically Safe, resin enclosure with standard black & yellow Beacon, 2 Magnum Sensors and Falcon 24 VDC/.48 watts, .5 Cv, brass, 3-Way solenoid valve. 711-BY-M10-FIO-2200

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