## Instrinsically Safe Compact Pressure Switch

## Series 8000-EXI

#### **Features**

- Proven design in stationary and mobile hydraulic applications
- Wide setpoint pressure range
- Available in wide range of configurations
- Precise setpoint adjustment
- Factory preset or field adjustable
- IP65, IP68
- ATEX
- Modular concept

### **Applications**

- Hydraulic power packs
- Oil and gas
- Flour mills
- Paint spraying
- Factory automation
- Mining
- Marine applications

### **General Specifications\***



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Repeatability:	±1% typical, piston models ±2% typical, diaphragm models	Pressure Connection:	Multiple pressure connections available		
<b>Microswitch:</b> Type: Rating:	SPDT contact Silver/Gold contacts: Voltage = 28 V max Current = 50 mA max	Approvals: ATEX: ⟨E⟩ II1GD Ex ia IIC T6 Ga Ex ia IIIC T100°C Da ⟨E⟩ II1GD Ex ia IIB T6 Ga Ex ia IIIC T100°C Da	DIN plug version Cable version GOST R		
Switching Frequency:	max. 60 /min piston switch max. 30/ min diaphragm switch	Ambient Temperature Range: Piston Switch:	-40°F to +167°F (-40°C to +75°C)		
Wetted Parts:	300 series stainless steel	Diaphragm Switch:	-4°F to +167°F (-20°C to +75°C)		
Process Fitting: Housing: Seals & Diaphragms:	Aluminum die-cast 2014 or 2007 Stainless steel - optional AISI 303 Buna-N (NBR), FKM, EPDM	Adjustment Instructions: Setpoint Adjustment:	Turn adjustment screw clockwise to increase pressure; counterclockwise to decrease pressure.		
Adjustment Screw:	300 stainless steel (HEX 5mm)	Shipping Weight:			
Electrical Connection:	For IP rating and electrical	CETOP Flange Model:	0.77 lbs. (350 g) 1.36 lbs. (620 g)		
Electrical Connection:	connections see page 2	Adaptor Version Straight:			
		Adaptor Version 90° Angle:	1.48 lbs. (675 g)		

* See product configurator for additional options.		DIN 43650 Plug (PL1)	M12 Plug (PL2)	Cable Gland (CA)	1/2" NPT Conduit w/ Free Leads (CD1)	
Wiring Code		Common	1	1	Brown	Violet
(contact status at	No	ormally Closed	2	2	Black	Blue
atmospheric pressure)	N	Iormally Open	3	4	Gray	Red
-		Ground	GRD	3*	Green/Yellow	Green



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### **Technical Drawings**



#### **Pressure Range**

	Adjustable Ranges				Max. Hysteresis <sup>3</sup>	Max. Operating		Proof Pressure		
	(decreasing psi	pressure) (bar)	(increasing psi	pressure) (bar)	(Dead-band)	Pres psi	sure (bar)	psi (bar		
Diaphragm	iragm									
Α	10 - 80	(0.7 - 5.5)	10 - 85	(0.7 - 5.9)	≤15% of max adjustable	725	50	1200	(80)(*)	
В	30 - 245	(2.0 - 17)	45 - 290	(3.1 - 20)		725	50	1200	(80)(*)	
С	45 - 600	(3.1 - 41)	60 - 650	(4.1 - 45)	range	725	50	1200	(80)(*)	
Piston	Piston									
D <sup>7</sup>	45 - 2320	(3.1 - 160)	75 - 2610	(5.2 - 180)	≤15% of max adjustable	3600	250	8700	(600)	
E <sup>7</sup>	430 - 4300	(3.1 - 300)	750 - 5000	(52 - 345)		6500	450	8700	(600)	
F <sup>7</sup>	800 - 7550	(55 - 520)	1200 - 8700	(83 - 600)	range	8700	600	15000	(900)	

#### Notes:

- <sup>1</sup> Consult factory for other process connections. Minimum quantities may apply.
- <sup>2</sup> Model 81XX- at pressure ranges is (A to E) delivered with 2 spring clips and 2 mounting screws 5 x 60 mm, steel 10.9, galvanized (hex 4). Pressure range (F) is delivered with 4 mounting screws.
- <sup>3</sup> Consult sales drawing for dead-band chart
- <sup>4</sup> Consult factory for additional options.
- <sup>5</sup> Only for piston version (D, E, F pressure range)
- <sup>6</sup> Intrinsically safe model can be ordered with or without stainless steel feature (-VA) .
- <sup>7</sup> For water applications or pressure over 3,000 psi, -D option, surge protection, is recommended.

<sup>(\*)</sup> Proof pressure 2900 psi (200 bar) on request (May shorten the lifetime of the switch).

## (sdale

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