

Pressure

Compact Pressure Switch

Series 8000

Features

- ▶ Proven design in stationary and mobile hydraulic applications
- ▶ Wide setpoint pressure range
- ▶ Available in wide range of configurations
- ▶ Precise setpoint adjustment
- ▶ UL Type 4
- ▶ Modular concept
- ▶ Manifold mount
- ▶ Additional process connections

Applications

- ▶ Hydraulic power packs
- ▶ Machine tools
- ▶ Overload controls
- ▶ Railways
- ▶ Factory automation
- ▶ Balers and compactors



General Specifications*

Repeatability:	±2% typical, diaphragm models ±1% typical, piston models
Microswitch: Type:	SPDT contact
Rating:	Silver contacts: 3A @ 250 VAC 5A @ 125 VAC 3A @ 30 VDC
Switching Frequency:	Max. 60 /min piston switch Max. 30/ min diaphragm switch
Wetted Parts: Process Fitting:	300 series stainless steel
Housing:	Aluminum die-cast 230
Seals & Diaphragms:	Buna-N (NBR) standard; FKM,
Adjustment Screw:	300 stainless steel (HEX 5 mm)
Electrical Connection/ Rating:	For IP rating and electrical connections see page 2
Enclosure Ratings*:	NEMA 4

Pressure Connection:	Standard manifold (Additional options available; see product configurator)
Approvals: Standard:	UL / cULus (CSA)
Ambient Temperature Range: Piston Switch: Diaphragm Switch:	-40°F to +167°F (-40°C to +75°C) -4°F to +167°F (-20°C to +75°C)
Adjustment Instructions: Setpoint Adjustment:	Turn adjustment screw clockwise to increase pressure setpoint; counterclockwise to decrease pressure setpoint.
Shipping Weight: Manifold Version: Adaptor Version Straight:	0.77 lbs. (350 g) 1.36 lbs. (620 g)

* See product configurator for additional options.

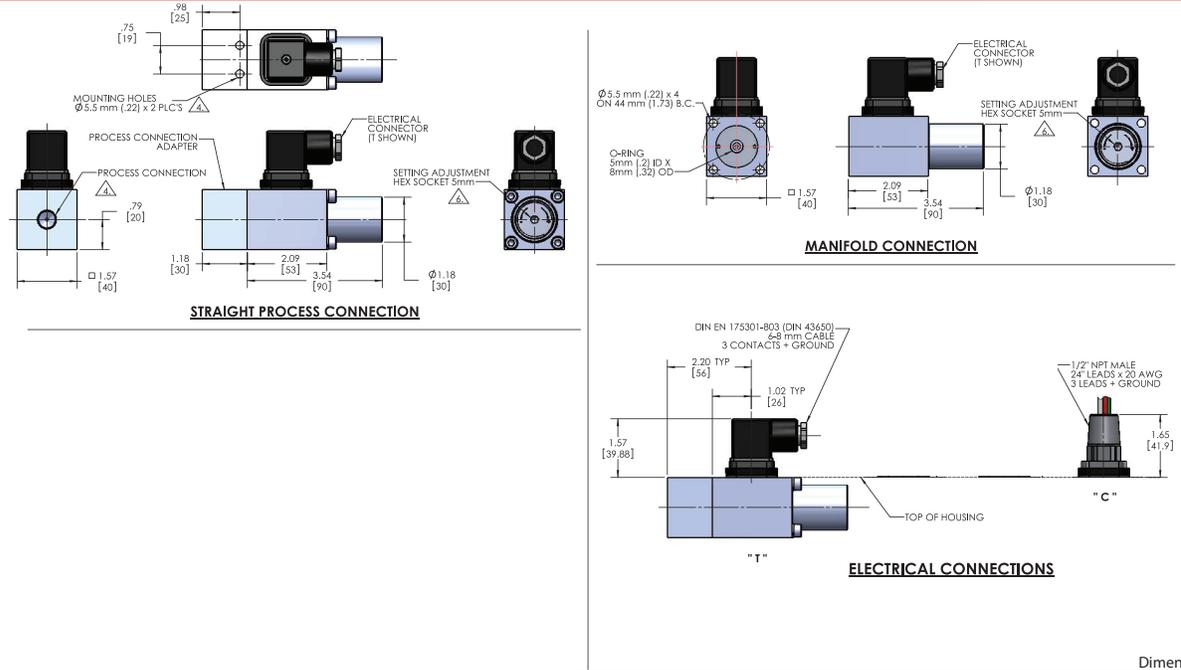
Wiring Code
(contact status at atmospheric pressure)

	DIN 43650 Plug	1/2" NPT Conduit w/ Free Leads (C)
Common	1	Violet
Normally Closed	2	Blue
Normally Open	3	Red
Ground	GRD	Green

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Technical Drawings



Product Configurator

Example: 8 A A 1 -PL1 B -UL

Series

8 Series 8000

Process Connections¹

- 1² Manifold connection flange 40 x 40
- A 1/4" NPT female
- E 7/16-20 UNF SAE-4 female

SPDT Contacts

1 Silver

*Electrical Connectors

- PL1 Plug DIN 43650 A, IP65 (PL1 only) (formerly PL1)
- CD1 1/2" NPTM AWG 20 with 24" (60 cm) leads (3 leads + ground) (formerly CD1)

Options

- EXI Intrinsically safe
- UL⁶ cULus
- D⁴ Surge protection

Seals

- B Buna -N (NBR)
- V FKM

Pressure Range

*Electrical connectors listed meet NEMA 4 rating

	Adjustable Ranges				Max. Hysteresis ³ (Dead-band)	Max. Operating Pressure		Proof Pressure	
	(decreasing pressure)		(increasing pressure)			psi	bar	psi	bar
	psi	bar	psi	bar					
Diaphragm									
A	5.8- 82	0.4 - 5.7	8.7 - 87	0.6 - 6	≤15% of max adjustable range	725	50	1200	80 ^(*)
Piston									
D ⁵	43 - 2320	3.0 - 160	75 - 2610	5.0 - 180	≤15% of max adjustable range	3600	250	8700	600
E ⁵	430 - 4300	30 - 300	750 - 5000	50 - 350		6500	450	8700	600
F ⁵	800 - 7550	55 - 520	1200 - 8700	80 - 600		8700	600	13050	900

Notes:

- ¹ Consult factory for other process connections, minimum quantities may apply.
- ² Model 81XX- at pressure ranges (A to E) is delivered with 2 spring washers and 2 mounting screws 5 x 60 mm, steel 10.9, galvanized (hex 4). Pressure range (F) is delivered with 4 mounting screws.
- ³ Consult sales drawing for dead-band chart.
- ⁴ Only for piston version (D, E, F pressure range)
- ⁵ For water applications or pressure over 3,000 psi, D option, surge protection, is recommended
- ⁶ Not available with EXI options

^(*) Proof pressure 2900 psi (200 bar) on request (May shorten the lifetime of the switch).