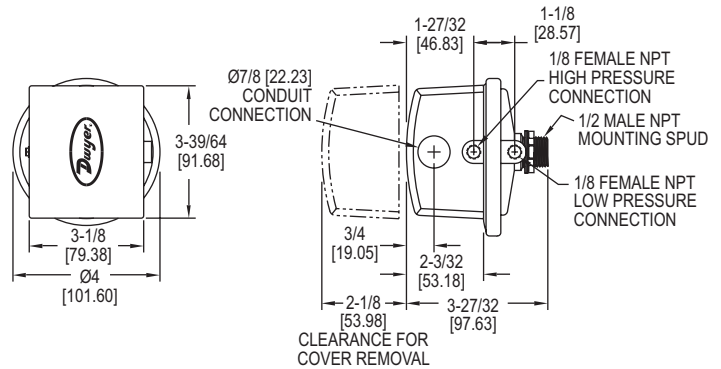


# LOW DIFFERENTIAL PRESSURE SWITCH FOR GENERAL INDUSTRIAL SERVICE

Set Points from 0.07 in w.c. to 85 in w.c. Repetitive Accuracy within 2%



Essential for industrial environments, the **Series 1800 Low Differential Pressure Switch for General Industrial Service** combines small size and low price with 2% repeatability for enough accuracy for all but the most demanding applications. Set point adjustment inside the mounting stud permits mounting switch on one side of a wall or panel with adjustment easily accessible on the opposite side. UL and CSA listed, and FM approved. For use with air or compatible gages.

**FEATURES/BENEFITS**

- Compact size and repeatability, provides a high-value switch for many industrial applications
- Designed for panel and wall mounting and provides easy access that simplifies making adjustments or changes to switch setting
- Wide range of models from 0.07 in w.c. to 85 in w.c. can meet exacting specifications for a low pressure switch

**APPLICATIONS**

- Process applications
- Mechanical equipment control

OPTIONS
<b>Weatherproof Housing</b> 16 ga. steel enclosure with gasketed cover (NEMA 4, IP66) for wet or oily conditions. Withstands 200 hour salt spray test. Wt. 5-1/2 lb (2.5 kg). Switch must be factory installed. <b>Note:</b> To order, change 1823 base number to 1824 and add -WP suffix. <b>Example:</b> 1824-1-WP
<b>Explosion-Proof Housing</b> Cast iron base with aluminum cover. Rated Class I, Div. 1 & 2, Group D; Class II, Div. 1 & 2, Groups E, F, G; Class III and NEMA 7 CD, 9 EFG. Wt. 7-1/2 lb (3.4kg). Switch must be factory installed. <b>Note:</b> To order, change 1823 base number to 1824 and add -EXPL suffix. <b>Example:</b> 1824-1-EXPL
<b>MIL Environmental Construction</b> Unlisted Model 1820 can be furnished with a special sealed snap switch for protection against high humidity, fungus and/or military applications. Similar to Model 1823 except deadband is slightly greater and some lower setpoints may not be possible. <b>Note:</b> To order, add -MIL suffix. <b>Example:</b> 1820-2-MIL

SPECIFICATIONS
<b>Service:</b> Air and non-combustible, compatible gases.
<b>Wetted Materials:</b> Consult factory.
<b>Temperature Limits:</b> -30 to 180°F (-34 to 82.2°C); 1823-00: -20 to 180°F (-28.9 to 82.2°C).
<b>Pressure Limits:</b> 10 psig (68.95 kPa) continuous, 25 psig (172.4 kPa) surge.
<b>Switch Type:</b> Single-pole double-throw (SPDT).
<b>Repeatability:</b> ±2%.
<b>Electrical Rating:</b> 15 A @ 120-480 VAC, 60 Hz. Resistive 1/8 HP @ 125 VAC, 1/4 HP @ 250 VAC, 60 Hz. De-rate to 10 A for operation at high cycle rates.
<b>Electrical Connections:</b> 3 screw type, common, normally open and normally closed.
<b>Process Connections:</b> 1/8" female NPT.
<b>Mounting Orientation:</b> Diaphragm in vertical position. Consult factory for other position orientations.
<b>Set Point Adjustment:</b> Screw type inside mounting spud.
<b>Weight:</b> 1 lb 5 oz (595 g).
<b>Agency Approvals:</b> CE, CSA, FM, UL. Optional-EXPL explosion-proof enclosure does not possess any agency approvals.

MODEL CHART			
Model	Operating Range, in w.c.	Approximate Deadband	
		At Min. Set Point	At Max. Set Point
1823-00	0.07 to 0.22	0.05	0.05
1823-0	0.15 to 0.5	0.06	0.06
1823-1	0.3 to 1.0	0.08	0.08
1823-2	0.5 to 2.0	0.10	0.12
1823-5	1.5 to 5.0	0.14	0.28
1823-10	2.0 to 10	0.18	0.45
1823-20	3 to 22	0.35	0.70
1823-40	5 to 44	0.56	1.10
1823-80	9 to 85	1.30	3.0

ACCESSORIES	
Model	Description
A-389	Mounting bracket; 16 ga. steel, zinc plated and dichromate dipped for corrosion resistance; provides rugged, permanent mounting and speeds installation
A-489	4" straight static pressure tip with flange
A-491	6" straight static pressure tip with flange
A-493	8" straight static pressure tip with flange
A-302F-A	303 SS static pressure tip with mounting flange; for 3/16" ID rubber or plastic tubing; 4" insertion depth; includes mounting screws
A-302F-B	303 SS static pressure tip with mounting flange; for 3/16" rubber or plastic tubing; 6" insertion depth; includes mounting screws
A-302F-C	303 SS static pressure tip with mounting flange; for 3/16" rubber or plastic tubing; 8" insertion depth; includes mounting screws

Process Tubing Options: See page 503 (Gage Tubing Accessories)