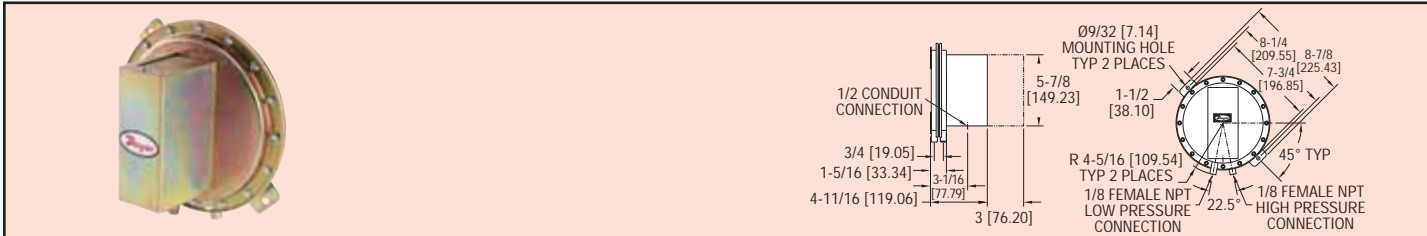




Series 1620

Single and Dual Pressure Switches

High Reliability . . . Repetitive Accuracy within $\pm 1\%$



Our old faithful switch design is still best where highest precision combined with diaphragm sealed leak proof construction and mounting simplicity are required. Model 1626 and 1627 differential pressure switches are identical in design and construction except that Model 1626 has a single electric switch and Model 1627 has dual electric switches. Model 1627 can therefore provide dual control when required. It can be set to open or close two independent electrical circuits, each preset for its own actuation pressure. Both units have diaphragm sealed motion take outs providing maximum protection against leakage.

SPECIFICATIONS

Service: Air and non-combustible, compatible gases.

Wetted Materials: Consult factory.

Temperature Limits: -30 to 130°F (-34.4 to 54.4°C).

Pressure Limits: Max. 50 in. w.c. (12.44 kPa) continuous, 2 psig (13.79 kPa) surge.

Switch Type: 1626, Single-pole double-throw (SPDT); 1627, two Single-pole double-throw (SPDT).

Repeatability: $\pm 1\%$.

Electrical Rating: 15 A @ 120-480 VAC, 60 Hz, Resistive, 1/8 HP @ 125 VAC, 1/4 HP @ 250 VAC, 60 Hz.

Electrical Connections: 3 screw type, common, normally open and normally closed.

Process Connections: 1/8" female NPT.

Mounting Orientation: Diaphragm in vertical position. Consult factory for other position orientations.

Set Point Adjustment: Screw Adjustment.

Weight: Model 1626, 3 lb, 9.8 oz (1.64 kg); Model 1627, 3 lb, 11.8 oz (1.69 kg).

Agency Approvals: CE.

CAUTION: For use only with air or compatible gases.

Model (1626 shown, 1627 similar)	Operating Range Inches, w.c.	Approx. Dead Band		Adj. Diff. Between Set Points (1627 Only)
		Min.	Max.	
1626-1	.15 to 1.5	.10	.20	0.5
1626-5	.5 to 6.0	.15	.35	1.2

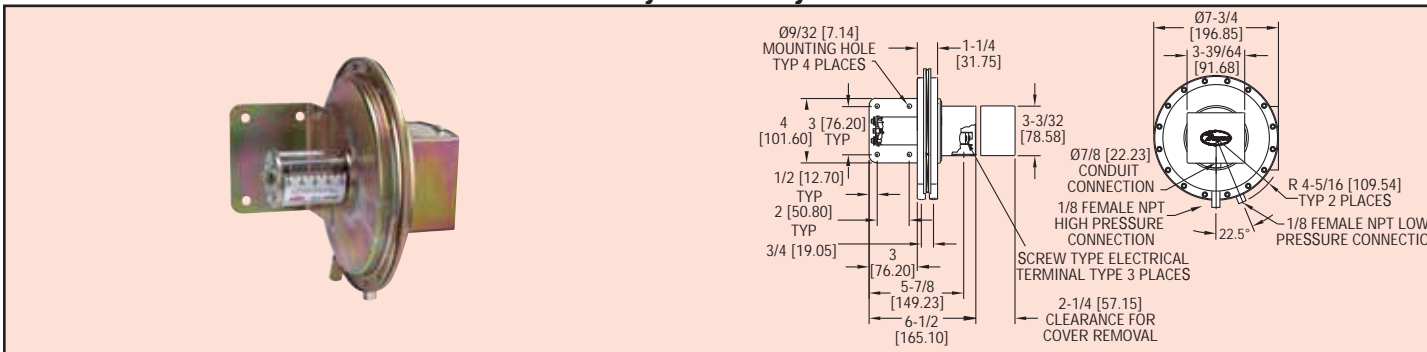
Model (1626 shown, 1627 similar)	Operating Range Inches, w.c.	Approx. Dead Band		Adj. Diff. Between Set Points (1627 Only)
		Min.	Max.	
1626-10	2.0 to 11	.25	.65	2.3
1626-20	8.0 to 24	.50	1.20	5.0



Series 1640

Floating Contact Null Switch for High and Low Actuation

Visual Set Point Adjustment...Adjustable Null Zone



The unique electric switch design in the 1640 is another Dwyer Instruments, Inc. innovation. The Dwyer® Model 1640 Differential Pressure Switch resembles the Series 1630 switches described on the previous page. The Model 1640, however, is equipped with a single pole, double throw floating contact switch (not snap acting) so it functions as a null switch.

Drawing shows the switching action schematically. As the diaphragm moves in response to pressure changes, it moves the floating contact to cause switching action at two preset points with no switching action between these points. The "high" circuit will be closed when rising pressure differential reaches the preset level. The "low" circuit will be closed when falling pressure differential reaches the preset level.

SPECIFICATIONS

Service: Air and non-combustible, compatible gases.

Wetted Materials: Consult factory.

Temperature Limits: -30 to 110°F (-34.4 to 43.3°C).

Pressure Limits: 10 psig (68.95 kPa) continuous, 25 psig (172.4 kPa) surge.

Switch Type: Single-pole double-throw (SPDT) floating contact (not snap action).

Electrical Rating: Non-inductive — 2.5 A @ 110 VAC; 1.5 A @ 220 VAC; 1 A @ 24 VDC; 0.5 A @ 110 VAC; Inductive — 1 A @ 110 VAC; 0.5 A @ 220 VAC; 0.5 A @ 24 VDC (De-rate 70-80% for very slow pressure changes).

Electrical Connections: 3 screw type, common, normally open and normally closed.

Process Connections: 1/8" female NPT.

Mounting Orientation: Diaphragm in vertical position. Consult factory for other position orientations.

Set Point Adjustment: Screw type.

Weight: 4 lb 13 oz (2.18 kg).

Agency Approvals: CE.

Model	Ranges Inches, w.c.	Adjustable Null Span	
		Min. Set	Max. Set
1640-0	.01 to 0.2	.01	.03
1640-1	0.2 to 1.0	.02	.06
1640-2	1.0 to 4.0	.03	.12
1640-5	2.0 to 6.0	.03	.18
1640-10	3.0 to 12.0	.04	.20

CAUTION: For use only with air or compatible gases.