

DESCRIPTION

Adjustable vacuum, pressure, and differential pressure switches for air and other non-combustible, non-aggressive gases.

APPLICATION

Air pressure control and monitoring of ducts, filters, fans and other devices in ventilation and air conditioning systems.

FEATURES

- Compact & easy to install
- High accuracy & life cycles
- Adjustable switching differential
- Calibrated, scaled setpoint knob

SPECIFICATIONS

Type of operation	On/Off, single-stage, micro switch
Output	1 SPDT, 250 VAC, 1.0 (0.4) A
Trip/setpoint	Internal linearly scaled knob
Switching differential	Screw adjustable
Sensing techniques	2 pressure chambers separated by diaphragm
Diaphragm material	Silicone
Life cycles	1,000,000
Permissible ambient temperature	
- Working/Storage	-4°F to 185°F (-20°C to 85°C)
Wire	
- Connection	Spade
- Size	Maximum 16 AWG (1.5 mm ²)
Cable entry	1/2" NPT conduit connection
Housing	
- Material	Synthetic, fire retardant
- Color	Transparent
- Protection	NEMA 3 (IP 54)
- Dimensions	Diameter 4.0 x 2.3 in. (100 x 58 mm)
Installation	Surface mounted
Pressure port connection	
- Diameter	2 for PVC tube, P1 (+) and P2 (-) 0.236" (6 mm) for O.D. 3/16" (8 mm) push-on tubing
Ship weight	0.4 lb (0.2 kg)



"Setpoint can be adjusted without field gauge reading"

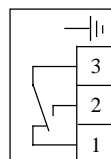
Adj. Setpoint Range* Inch WC (Pa)	Adj. Switching Diff.** Inch WC (Pa)	Max. Operation Pressure Inch WC (kPa)	Scale Type	Part Number
0.08 to 0.8 (20 to 200)	0.04* to 0.08 (10 to 20)	40 (10)	930.80	DBL-205L
0.16 to 0.4 (40 to 100)	0.08* to 0.16 (20 to 40)	40 (10)	930.81	DBL-205
0.16 to 0.8 (40 to 200)	0.08* to 0.16 (20 to 40)	40 (10)	930.82	DBL-205A
0.20 to 2.0 (50 to 500)	0.08* to 0.16 (20 to 40)	40 (10)	930.83	DBL-205B
0.80 to 4.0 (200 to 1000)	0.40* to 0.80 (100 to 200)	40 (10)	930.85	DBL-205D
2.0 to 10.0 (500 to 2500)	0.60* to 1.20 (150 to 300)	40 (10)	930.86	DBL-205E
Kit: (2) Pitots, (2) Grommets, 6.5ft. (2.0 m) Tubing				DBZ-06

* The adjustable trip/setpoint within the control range is calibrated for vertical mounting position pressure, port connection pointing downwards. If mounted in horizontal position, deduct 0.08 inch WC (20 Pa) from desired setpoint for off-set adjustment. If setpoint at the bottom of range, do not mount DBL in horizontal position.

** Factory set switching differential is ± 15% of trip/setpoint.

WIRING DIAGRAM

DBL



Ground Pressure increase, contact connection: 3 to 2
 Common Pressure decrease, contact connection: 3 to 1
 NO Pressure port P₁⁽⁺⁾ = high pressure
 NC Pressure port P₂⁽⁻⁾ = low pressure