



Vacuum pressure switches

Low voltage circuit vacuum pressure switch.

Fitting	Maximum Electrical rating	Minimum calibration pressure	Lowest negative pressure calibration	Type
PA66	1A 250VAC	-1 kPa (-10 mbar, -0.15 PSI)	-90 kPa (-900 mbar, -13 PSI)	ZD

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Printed circuit terminals	Solder terminals	Printed circuit terminals	Solder terminals
1/8" thread		3 board mounting solutions kit	
		Side spout	

Main applications :

These miniature slow-action pressure switches greatly outperform snap action models because they have high sensivity and low differential. They are designed to be incorporated into a printed circuit board which provides power relay. Their reduced thickness of 15mm favors installation in applications requiring a small footprint.

Technical features :

Fluid: Air or water

Pressure port connection: 1/8" BSPT, 1/8" NPT or side spout

- For 1/8" (3mm) ID flexible plastic tubing

- For 1/16" (1.5 mm) ID flexible plastic tubing

Maximum PVC tube hardness 70 shore A

Membrane: Silicone, 22mm diameter.

Housing: PA66

Contact: Slow make and break, contact is closed at atmospheric pressure and open when vacuum increases.

Electrical rating: 1A 250VAC resistive (silver contacts), 10mA 24VDC (5 microns gold plated contacts). We recommend gold plated contacts for low voltage and low current circuits to avoid the increase in contact resistance that appears on silver contacts as they oxidize.

Action: Momentary



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Electrical connection: 2.8 × 0.5mm quick connect terminals or printed circuit pins 1.2mm × 0.5mm

Lowest negative pressure: -90 kPa (-900 mbar, -13 PSI)

Bursting pressure: > 4bar (0.4Mpa, 60PSI)

Ambient temperature limits: Air: -10 ~ 85°C (14 to 185°F). Water: 0 to 85°C (32 to 185°F).

Mounting fittings: 1/8" BSPT or 1/8" NPT or side spout.

Main part numbers with printed circuit terminals and silver contacts*

Pressure port fitting	Included accessories	Calibration at -10 kPa (-100 mbar, -1.45 PSI)	Calibration at -25 kPa (-250 mbar, -3.63 PSI)	Calibration at -50 kPa (-500 mbar, -7.25 PSI)
1/8" BSPT	None	ZD2X0PR140100000	ZD2X0PR140250000	ZD2X0PR140500000
1/8" NPT	None	ZD2X0SR140100000	ZD2X0SR140250000	ZD2X0SR140500000
Spout on the side for 1/8" (6 × 3mm) tube	One set of 2 different snap-on brackets	ZD2X02R14010000V	ZD2X02R14025000V	ZD2X02R14050000V
Spout on the side for 1/16" (3 × 1.5mm) tube	One set of 2 different snap-on brackets	ZD2X0BR14010000V	ZD2X0BR14025000V	ZD2X0BR14050000V

* For quick connection terminal, replace R1 by Q1 in the 7th and 8th character.

Main part numbers with printed circuit terminals and gold plated contacts*

Pressure port fitting	Included accessories	Calibration at -10 kPa (-100 mbar, -1.45 PSI)	Calibration at -25 kPa (-250 mbar, -3.63 PSI)	Calibration at -50 kPa (-500 mbar, -7.25 PSI)
1/8" BSPT	None	ZD2X0PRG40100000	ZD2X0PRG40250000	ZD2X0PRG40500000
1/8" NPT	None	ZD2X0SRG40100000	ZD2X0SRG40250000	ZD2X0SRG40500000
Spout on the side for 1/8" (6 × 3mm) tube	One set of 2 different snap-on brackets	ZD2X02RG4010000V	ZD2X02RG4025000V	ZD2X02RG4050000V
Spout on the side for 1/16" (3 × 1.5mm) tube	One set of 2 different snap-on brackets	ZD2X0BRG4010000V	ZD2X0BRG4025000V	ZD2X0BRG4050000V

* For quick connection terminal, replace RG by QG in the 7th and 8th character.

Because of permanent improvement of our products, drawings, descriptions, features used on these data sheets are for guidance only and can be modified without prior advice