DBL – air differential pressure switches



The appearance of the product may differ from the illustration. Technical specifications are subject to change.

DBL SERIES

APPLICATION AND USE

Well-suited in domestic, commercial and industrial strong polluted areas in air conditioning and ventilating systems for:

- filter monitoring,
- correct fan operating control,
- underpressure and overpressure monitoring,
- deactivating of electrical heaters in the absence of air flow.

KEY FEATURES

- Differential pressure for air or non aggressive and non inflammable gases control.
- Alarm activation at a pre-set pressure.

TECHNICAL SPECIFICATION

TYPE	RANGE [mbar]	HYSTERESIS [mbar]	MAX. PRESSURE [mbar]
DBL-205A	0.3...4.0 (30…400 Pa)	0.15 ± 15%	100
DBL-205B	0.5...5.0 (50…500 Pa)	0.2 ± 15%	100
DBL-205C	0.2...3.0 (20…300 Pa)	0.1 ± 15%	100
DBL-205D	2...10 (200…1000 Pa)	1.0 ± 15%	100
DBL-205E	5...25 (500…2500 Pa)	1.5 ± 15%	100

Accessories		
	DBZ-06	Connecting kit: 2 duct connectors, 2 m flexible PVC tube and 4 screws
	DBZ-14A	Set consisting of mounting bracket and screws
	DBZ-14B	Set consisting of mounting bracket and screws

Contact:	microswitch with SPDT contacts
Switch capacity:	1.5 (0.4) A, 250 V_{AC}
Differential pressure:	fixed (see table)
Working temperature range:	-20...+85°C
Diaphragm:	silicon (LSR)
Storage:	-40...+85 °C
Housing:	Polystyrene
Protection:	IP54, class II
Dimensions:	see drawing
Weight:	180...210 g

UWAGA!
Connector P1 of higher pressure or lower vacuum.
Connector P2 of lower pressure or higher vacuum.

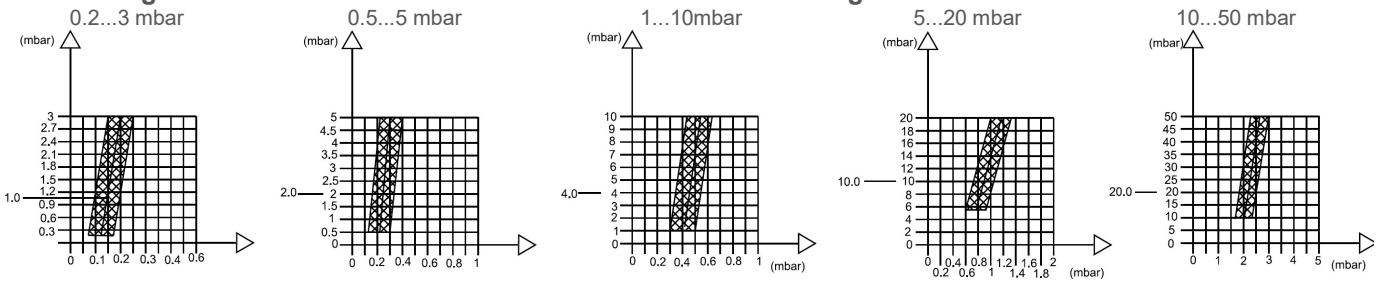
Connector ϕ 6.0 mm for hose PVC 5 x 8 mm.

NENUTEC®

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DBL-1: Diagrams of differential for the models referred to the 5 ranges.



ELECTRICAL WIRING

DBL-1: the contact 1 - 3 closes and the contact 1 - 2 opens when the differential pressure rises (fig. 1).

DBL-2: the contact 2 - 3 closes and the contact 1 - 3 opens when the differential pressure rises (fig. 2).

DBL-1

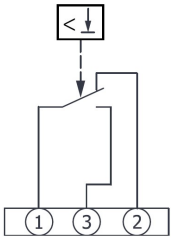


Fig. 1

DBL-2

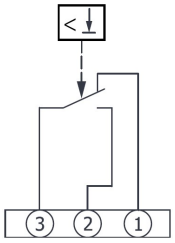
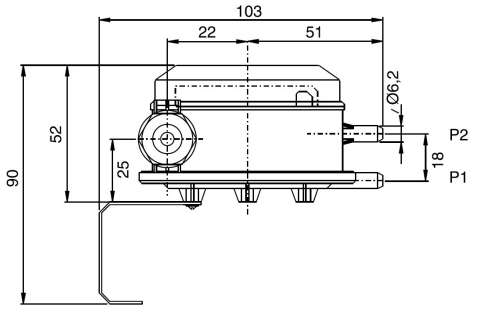
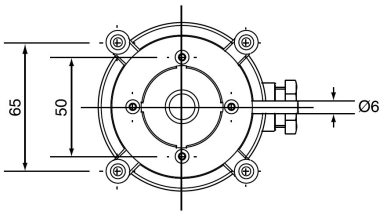
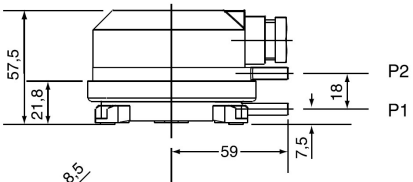


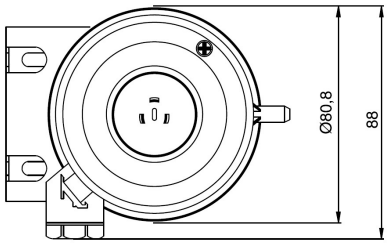
Fig. 2

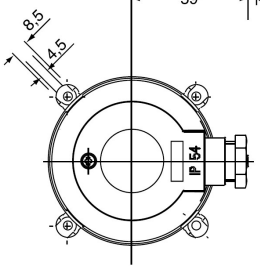
DIMENSIONS [mm]











Due to continuous product improvement, specifications are subject to change without notice.

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