

DTV...X is a pressure switch for supervision of air or non-aggressive, non-flammable gases in air handling systems. The device may be used in, for instance, the following applications:

- Air filters and air handling units
- Industrial air cooling circuits
- Fan overheating protection
- Ventilation duct flow monitoring
- Air control and fire protection dampers
- Heat exchanger frost protection systems

Function

The pressure connected to the high pressure point inlet (P1) is compared to the low pressure connected to P2. When the differential pressure exceeds the setpoint value, the contact will close or open.

When the pressure switch is used to supervise a fan, it is possible to leave the P2 pressure connection (for atmospheric pressure) disconnected.

Setpoint value and setting

The setpoint value is set using a knob under the lid, with the setpoint value visible through the lid. The lid is secured with a single screw to facilitate mounting and service.

The device hysteresis is pre-set upon delivery.

Terminal connections

DTV...X has 3 internal AMP flat plug connectors located under the plastic cover. 3 push-on screw terminals are included upon delivery for easy connection.

DTV...X

Differential pressure switch for air and neutral gases

Differential pressure switch for supervising air handling units, fans, filters or to control defrosting functions.

Short facts about DTV...X

- For differential pressure up to 5000 Pa
- Lowest setpoint value is 20 Pa (DTV300X)
- Compact design
- Excellent long-term stability
- · Easy installation and mounting
- Can be used at temperatures below -20°C



Models

Model	Pressure range	Hysteresis (P)
DTV300X	20300 Pa	10 Pa ± 15 %
DTV500X	50500 Pa	20 Pa \pm 15 %
DTV1000X	2001000 Pa	100 Pa ± 15 %
DTV2500X	5002500 Pa	150 Pa \pm 15 %
DTV5000X	10005000 Pa	250 Pa ± 15 %

Accessories

ANS-1 2 m plastic tube and two pressure outlets
DBZ-14A Set with mounting brackets and screws
DBZ-14B Set with mounting brackets and screws

Technical data

Medium Air, non-combustible and non-aggressive gases

Ambient temperature -20...+85°C Storage temperature -40...+85°C Max. differential pressure 10 kPa (all models)

Working life Over 10⁶ switching operations

Material

Sensor housing Polystyrene Membrane Silicone

Mounting bracket (optional) Galvanized stainless steel with two mounting holes (Ø 5 mm, cc 40 mm)

Protection class IP54
Weight 0.12 kg

Low Voltage Directive (LVD) standards: This product conforms to the requirements of the European Low Voltage Directive (LVD) 2006/95/EC.

RoHS: This product conforms to the Directive 2011/65/EU of the European

Parliament and of the Council.

Inputs and outputs

Relay output Max. 1 A (0.4 A), 250 V AC, change-over contact

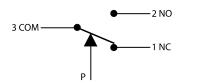
Cable connection AMP flat plug, 6.3 x 0.8 mm in accordance with DIN 46244. Cable conduit with

cable strain relief.

Pressure connection Connection pipes for 6 mm tube, P1 (+) connects to higher pressure,

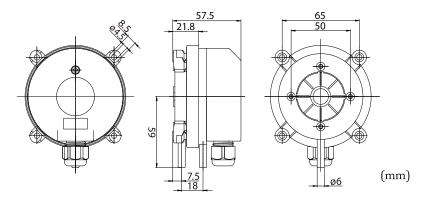
P2 (-) to lower pressure

Contact arrangement

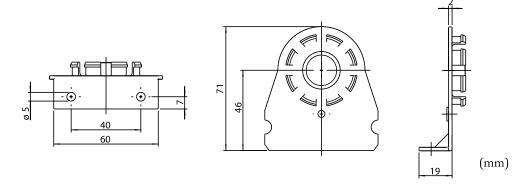


- 1 Closing contact
- 2 Operating contact3 Power supply line

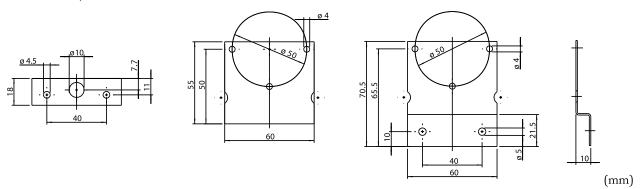
Dimensions, pressure switch



Dimensions, DBZ-14A



Dimensions, DBZ-14B



Product documentation

Document	Type
Instruction DTVX	Instruction for DTVX

The product documentation can be downloaded from www.regincontrols.com.

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