

CPS-D-SW PRESSURE SWITCH WITH ILLUMINATED DISPLAY, 24V

Differential pressure switch with relay output for ventilation systems.

Measurement range 0-3500 Pa.



TECHNICAL DATA

Supply voltage:	24V AC/DC $\pm 10\%$
Power consumption:	AC 80 mA, DC 50 mA
Relay output:	Max. load 300 mA, 60V Peak
Averaged damping:	3, 10 or 20 sek.
Measurement range, pressure:	0-3500 Pa
Setpoint:	Adjustable from 0-3400 Pa
Screw terminal	
- Cable area:	0.05-1.5 mm ²
- Type:	Pull sleeve
Accuracy:	Normally $\pm 1\%$ of measured pressure (@ >100 Pa)
Display:	Graphic LCD, backlit
Ambient temperature:	-20 to +50°C
Cable entry:	1xM16, 5-10 mm cable
Dimensions (WxHxD):	78x90x40 mm
Weight:	98 g
Protection class:	IP54

USE

CPS-D-SW is designed for monitoring differential pressure in ventilation systems.

PROPERTIES

- Selectable setpoints 0 to 3400 Pa.
- 4-bit resolution on pressure element
- Illuminated display
- The display shows the current setpoint, pressure and relay status
- The display blinks when the pressure exceeds the setpoint
- Selectable relay function: NO/NC
- High accuracy
- Installation-friendly enclosure
- Removable cable port and terminal block
- 3 signal damping settings
- Supplied with 2 m hose and 2 nipples

FUNCTION

Pressure switch CPS-D-SW has an integrated differential pressure element that is temperature-compensated for high accuracy and linearity. The pressure element has high resolution, which means that the pressure value is presented in increments of max 1 Pa over the entire measurement range (0-3500 Pa).

The required function and range is set on a backlit display. The relay output can be set to activate when the pressure is above or below the setpoint. You can also choose whether the relay output should close or break open activation. The damping of the measured value is selectable in three modes: 3, 10 and 20 seconds averaging. Setting of hysteresis and zero calibration of the pressure element is also carried out on the display.

In the display's basic mode, the current measured value, setpoint and the relay's current mode (closed or opened) are displayed. If the relay is activated, the display's backlight blinks and HIGH PR. or LOW PR. is displayed depending on the current setting.

CPS-D-SW is factory-set as an overpressure switch with a setpoint of 300 Pa. The relay is in N.O. mode (normally open) when the pressure is below the setpoint) and the averaged damping is set at 3 seconds.

The terminal block and enclosure cable port (with a pre-mounted M16 cable gland) are removable for easier installation. The enclosure cover is hinged at the top, has a snap fastener at the bottom and catches to keep the cover in raised position.

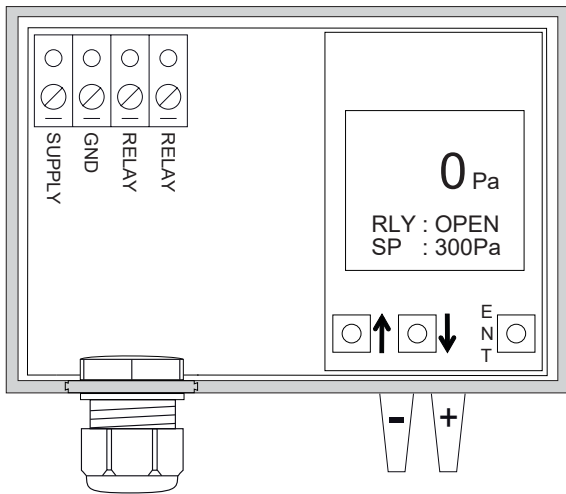
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CIRCUIT DIAGRAM



INSTALLATION

CPS-D-SW is wall-mounted with the hose connectors pointing downwards. For more information please refer to the installation instructions supplied with the product.

MAINTENANCE

CPS-D-SW is maintenance free. Zero pressure calibration can be carried out if necessary.

ORDERING EXAMPLE

Item code	Description
CPS-D-SW	Pressure switch, relay output, 0 to 3500 Pa, 24V
CPS-A	Pressure sensor, analogue -50 till 3500 Pa, 24V
CPS-D-A	Pressure sensor with regulator function, with display, analogue, -100 to 3500 Pa, 24V
CPS-D-MB	Pressure sensor with display, Modbus, -100 till 3500 Pa, 24V