

## CPS DIFFERENTIAL PRESSURE SWITCH

CPS switches are made for monitoring over - and under pressures and pressure differences of the air-handling system, for air and other non-flammable gases. Typical applications are monitoring of fans and filters in ventilation systems. Switching point will be set by using a hand wheel.

Due to the IP 54 enclosure CPS can also be used in dusty and wet surroundings.

Connections to the process detected will be made by using  $\varnothing$  6/4 mm plastic tubes.

Common instructions:

- Only the trained persons are allowed to make the installations.
- Vertical diaphragm installation is recommended. Horizontal installation causes to the switching point, the difference of +13 Pa, when the housing is upside and as well -13 Pa, when the housing is downside.
- Open process connections must be protected by filter pads in dirty surroundings.
- Avoid subjecting the CPS to strong and violent vibrations.
- Condensation or vapours containing silicone is not allowed to enter the housing.
- Icing may cause malfunctions or failures at subzero temperatures.
- Mounting by using only two screws is recommended to prevent stresses on the housing.



### Technical data:

Measuring ranges / hysteresis on the low...high level

CPS 330	20...330 Pa / 8...20 Pa
CPS 450	30...500 Pa / 10...25 Pa
CPS 1100	100...1100 Pa / 20...60 Pa
CPS 4000	500...4000 Pa / 40...100 Pa

Output relay, potential free, NC / NO, change-over contact	24...250 Vac 0,05 ...5A, $\cos \varphi=1$ 0,05 ...1A, $\cos \varphi=0,6$
Number of switchings	> 1,0 million for the load <230V, < 2A
Accuracy	+/- 15% from the set value; by rising pressure, by vertical diaphragm

Ambient temperature	-15...+80 °C
Max. static / over pressure	5 kPa
Housing	IP54

### Wiring:

1	NC contact
2	NO contact
3	COMMON contact

### Ordering guide:

Model	Product number	Description
CPS 330	1240100	differential pressure switch, range 20-330 Pa
CPS 450	1240110	differential pressure switch, range 30-500 Pa
CPS 1100	1240120	differential pressure switch, range 100-1100 Pa
CPS 4000	1240130	differential pressure switch, range 500-4000 Pa
PEL-AS	1131010	accessory kit

Products fulfill the requirements of directives 2006/95/EC and 2004/108/EY and are in accordance with the standards EN61000-6-3 (Emission) and EN61000-6-2 (Immunity).

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