

Air Differential Pressure Switch: CS-ADPS

CaterSense® - The CS-ADPS differential pressure switch is for air flow proving and filter status monitoring applications. The switch can be used for static pressure switching applications by simply allowing one of the ports to remain open to normal atmospheric pressure. CS-ADPS units are suitable for use with air, non aggressive and non-combustible gases.

- Mains rated switch contacts
- Complete with duct spigots and tube



Model Type	Model	Description
	CS-APDS	Air Differential Pressure Switch
Technical Data	Power supply	24Vac / dc or 250Vac 1A max
	Dimensions	88 x 103 x 57.5mm (max.) (Wt: 150g)
Wiring Terminals	1	Normally Closed Contact
	2	Normally Open Contact
	3	Common
Pressure Range	20Pa to 200Pa	(10Pa Switching Differential)
Pressure Connection:	Plastic pipe suitable for use with 6mm plastic tube.	
Cable Entry:	IP54 PG11 Compression Stuffing Gland	

Mounting

Install in a clean environment in an area with good air movement.

Recommended mounting height 1.5 - 2m from floor.

Avoid areas of localised heat, windows, doors etc.



This symbol on this product or the package indicates that disposal of this product after its lifecycle could harm the environment.
DO NOT dispose of this product (or batteries if used) as unsorted municipal waste. It should be disposed by a specialised company for recycling.
This product should be returned to your distributor or to a local recycling service.
Respect the local environment rules.

Installation

The CS-ADPS switch should be installed by a suitably qualified technician. Field wiring should be installed to satisfy the requirements set out by the manufacturer of the equipment that the switch is being connected to and in accordance with prevailing regulations.

CAUTION

The CS-ADPS is suitable for use with mains voltage. Always isolate the power before removing the cover. The CS-ADPS has four fixing lugs moulded into the base for use with screws up to 4mm in diameter. When installing the switch, care should be taken not to stress the unit through incorrect alignment of fixing holes etc. The switch is designed to be mounted on a vertical plane with the gland and pressure connections at the bottom of the unit. The switch can be fixed in other orientations but this will affect the accuracy of the unit and when setting the required switching point the dial will need to be adjusted to take account of any error.

Connection

Pressure:

Pressure connections are made by pushing 6mm PVC tube over the pressure pipes behind the cable gland. P1 is the high pressure connection and P2 is the low pressure connection. For a flow proving application, the positive side of the fan would be connected to P1 whilst the "suction" side of the fan is connected to P2. For a filter monitoring application, P1 should be connected to the "dirty" side of the filter where air is entering it and P2 to the "clean" side of the filter. As the filter becomes soiled, the differential pressure will increase until the switch activates at the designated threshold.

Electrical:

The switch should be wired as per the following diagram. 6.3mm spade connectors can be used, or the terminal screw adaptors can be fitted if required.



IP65 Housing (option)

Dimensions: 130 x 130 x 99

Weight: .35 kgs + adps

Protection: IP66



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