

Product overview

Differential pressure switch for monitoring the differential pressure of air and other non-flammable and non-aggressive gases.

Possible applications: monitoring of air filters, fans, industrial cooling air cycles as well as overheating protection, control of air and fire dampers, anti-freeze with heat exchangers.


Types available

Type code	Type	Description
EXT-TN-1500288	PS200	Measuring range 20...200Pa
EXT-TN-1066753	PS300	Measuring range 30...300Pa
EXT-TN-1066760	PS500	Measuring range 30...500Pa
EXT-TN-1071610	PS1500	Measuring range 100...1500Pa
EXT-TN-1071627	PS4500	Measuring range 500...4500Pa
EXT-TN-1072426	MKS100	Metal duct connector, L=100mm (2 pieces necessary per device)

Technical Data

Standards	CE conformity	- 2006/95/EC Low voltage - 2004/108/EC EMC
General data	Housing	ABS
	Housing cover	PC
	Membrane	Silicone
	Duct connectors	ABS
	Tubing	PVC, soft
	Protection	IP54
	Dimensions (LxWxH)	105 x 73 x 63mm
	Maximum pressure	50kPa
	Media	Air and non-aggressive gases
	Operation temperature	20...60°C
	Storage temperature	40...85°C
	Sub miniature switches	Gold contacts : PS200 Silver contacts : PS300 / PS500 / PS1500 / PS4500
	Service life	>1,000,000 switching operations
	Connections	Screw terminals
	Cable entry	M16
	Weight	150g (without accessories)
	PS200	Measuring range 20...200Pa Switching difference 10Pa Switching load 0.1A resistive load (max. AC 250V)
	PS300	Measuring range 30...300Pa Switching difference 20Pa Switching load 3A resistive / 2A inductive load (max. AC 250V)
	PS500	Measuring range 30...500Pa Switching difference 20Pa Switching load 3A resistive / 2A inductive load (max. AC 250V)
	PS1500	Measuring range 100...1500Pa Switching difference 80Pa Switching load 3A resistive / 2A inductive load (max. AC 250V)
	PS4500	Measuring range 500...4500Pa Switching difference 180Pa Switching load 5A resistive / 2A inductive load (max. AC 250V)

Security advice

The installation and assembly of electrical equipment may only be performed by a skilled person.

The modules must not be used with equipment that supports, directly or indirectly, human health or life or with applications that can result in danger for people or animals.

Mounting advice

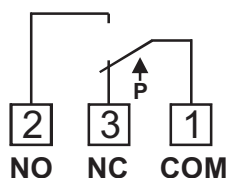
The pressure switch is factory calibrated in the vertical position. If installed horizontally, this will affect the switching point as follows:

- with cover facing upwards, +15Pa
- with cover facing downwards, -15Pa

Installation

A prerequisite for the operation is a proper installation of all electrical supply, control and sensing leads as well as the pressurised connection line. Before installing the device, the leak tightness of the pressurised connection lines must be inspected.

Terminal connection plan



When differential pressure increases:

- 1-3 open
- 1-2 close

Dimensions (mm)

