

TVI-DPS

AIR DIFFERENTIAL PRESSURE SWITCHES (ON/OFF)



Features

- * On/Off Output
- * 5 Different pressure ranges - 20-200, 30-300, 30-500, 40-600, 100-1500 Pa
- * Switching pressure to be adjusted easy on a scaled adjustment knob
- * IP 54

Technical data

Output	on/off
Type of switch	sub miniature switch - with silver contacts for 30-300, 30-500, 40-600, 100-1500 Pa - with gold contacts for 20-200 Pa
Electrical ratings	max. 3A resistive (0.1A for PSA 20-200) max. 2A inductive
Voltage against earth	Max. 250 Vac
Service life	> 1 000 000 switches operations
Product data	
- Maximum pressure	50 kPa
- Admissible media	Air and non-aggressive gases
Materials	
- Housing	ABS
- Cover	PC
- Membrane	silicone
- Duct connectors	ABS
- Tubing	PVC, soft
Connections	
- Electrical conn.	3 screw terminals
- Cable entry	PG 9
- Pressure conn.	Male 5 mm dia.
Weight	150 g (350 g with duct fixing kit)
Ambient conditions	
- Operation	-20°C till +60°C.
- Storage	-40°C till +85°C.
Safety	
- Protection	IP 54
- Conformity	meets the requirements for CE marking as defined in EC directive low voltage 73/32/EEC

Description

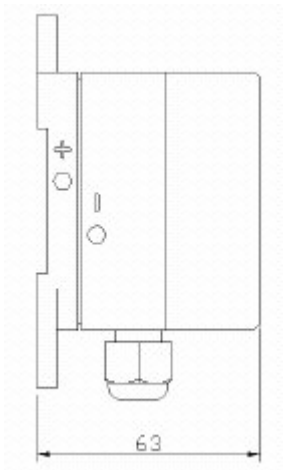
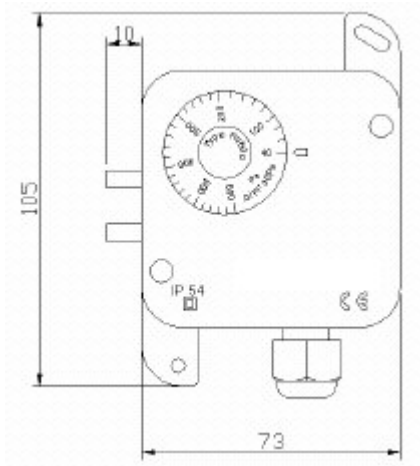
The DPS switches can be used in ventilation, air conditioning and in particular for monitoring air ducts, air filters and fans. The switches are suitable for air and non-aggressive gases.

Ordering

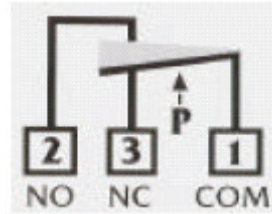
Type no.	Adjustment range	Switching differential
Air differential pressure switch, on/off output without duct fixing kit		
TVI-DPS 20-200	20–200 Pa	10 Pa
TVI-DPS 30-300	30–300 Pa	20 Pa
TVI-DPS 30-500	30–500 Pa	20 Pa
TVI-DPS 40-600	40–600 Pa	30 Pa
TVI-DPS 100-1500	100–1500 Pa	80 Pa

Include of :
Duct fixing kit =
2 fixing screws
2 plastic duct connectors
2 metres tube (hose)

Dimensions (mm)



Electrical connection



When differential pressure increases:
1 - 3 open
1 - 2 close

Mounting position

The DPA pressure switch is factory-calibrated in the vertical position.

If installed horizontally, this will affect the switching point as follows:

- with cover facing upwards,
switching point is 15 Pa higher than scale
- with cover facing downwards,
switching point is 15 Pa lower than scale