

Pressure switch 441 009



Application

Multiple applications in compressed air systems. Separate housing, switches exclusively to ground.

Purpose

The pressure switch is used for switching electrical devices or indicator lights on or off.

Maintenance

Special maintenance that extends beyond the legally specified inspections is not required.

Installation recommendation

- Install the 1-pole pressure switch in any location in the pressure line.
- Fasten the pressure switch with one M8 bolt.

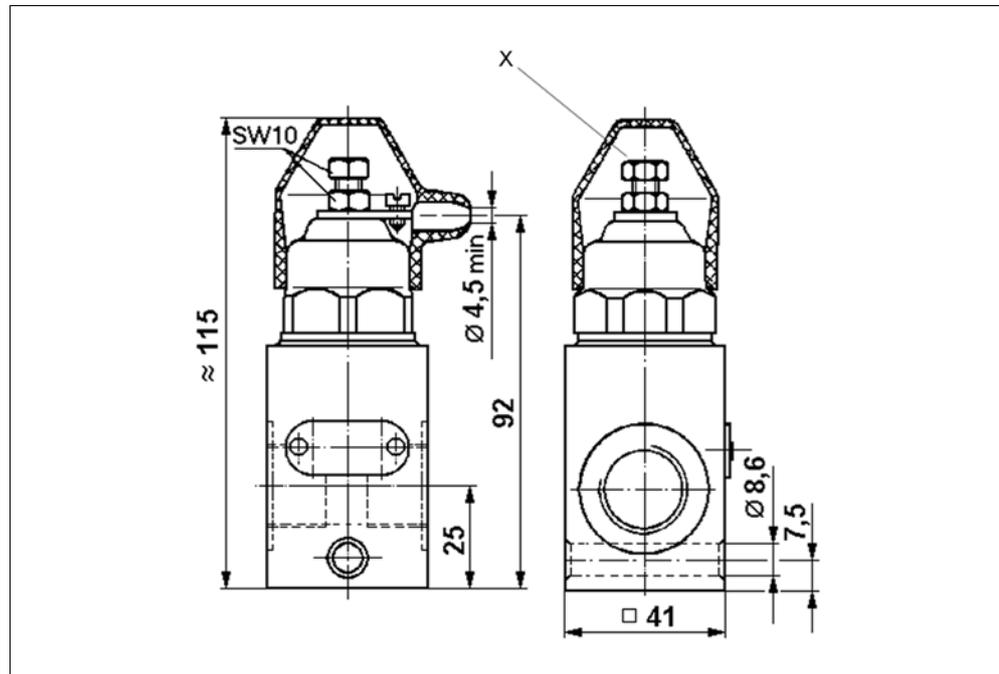


Make sure that fastening is made to a proper ground contact (do not fasten to plastic parts).

- Put a cable eyelet on the cable to be connected.

Pressure switch 441 009 / 441 014

Installation dimensions



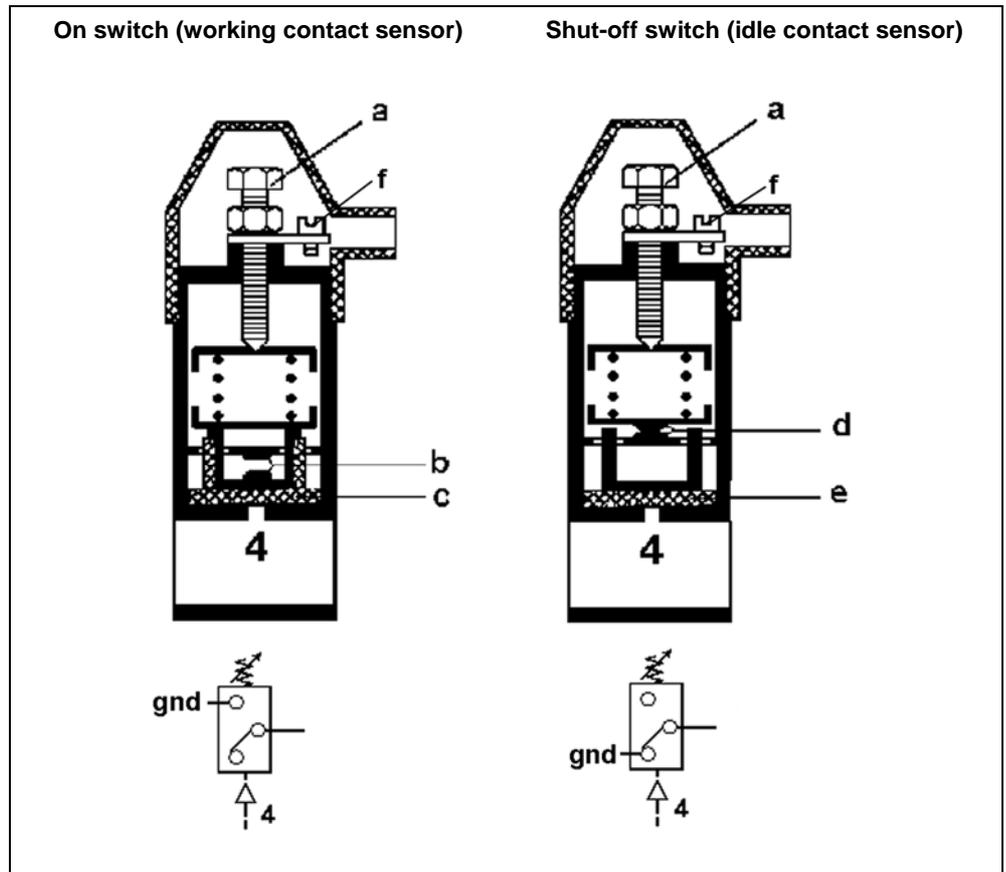
Legend

X Adjusting screw

Technical data

Order number	441 009 001 0 On switch	441 009 101 0 Off switch
Max. operating pressure	10 bar	
Actuating pressure	Set to 5.0 ±0.2 bar	
	can be adjusted from 1.0 to 5.0 bar	
Port threads	M 22x1.5	
Max. operating voltage (DC voltage)	30 V	
Max. electrical breaking capacity with inductive load and direct current	2 A	
Permissible medium	Air	
Operating temperature range	-40 °C to +80 °C	
Weight	0,22 kg	

Operation



On switch (unpressurized open)

If the defined pressure value is reached on the switch, the contacts (b) are closed by the diaphragm (c) as it is arched upward. If the pressure drops on connection 4, the contacts (b) open again.

Shut-off switch (unpressurized closed)

If the defined pressure value is reached on the switch, the contacts (d) are opened by the diaphragm (e) as it is arched upward. If the pressure drops on connection 4, the contacts (d) close again.

To adapt to the different switching tasks, the actuation pressure values for both switch types can be changed within certain ranges with the set screw (a).

Connection (f) is for the cable connection.

Pressure switch 441 014



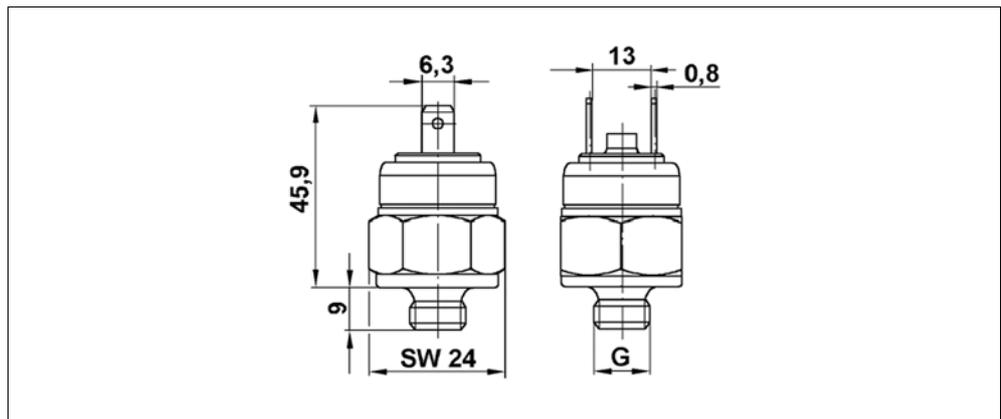
Application

Multiple applications in compressed air systems.

Purpose

The pressure switch is used, depending on the version, for switching electrical devices or indicator lights on or off.

Installation dimensions



Technical data

Order number	441 014 021 0 On switch	441 014 023 0 On switch
Max. operating pressure	10 bar	
Actuating pressure	0,5 ±0.15 bar	2,5 ±0.3 bar
Port threads	M 12x1.5	
Voltage (direct current)	24 V	
Operating temperature range	-40 °C to +80 °C	
Weight	0,06 kg	