

Mechanical pressure switch S4140

**Low priced pressure switch
with normally closed or normally open contact**



Description

Small mechanical pressure switch with a diaphragm sensing element and one switched output as a NO or NC contact for converting pneumatic and hydraulic pressures into an electrical switching signal.

The adjustment range for increasing pressures begins at 0.2 bar. The setpoint can be chosen even lower in the case of decreasing pressure. An adjusting screw allows setpoints to be easily adjusted, even in situ.

The switch is suitable for media such as compressed air, non-aggressive liquids or self-lubricating fluids. It is available as standard with 1/4" thread galvanized steel process connection. Other connections and materials are possible upon request. The switch can be installed in any desired mounting position.

The S4140 can be used to control and monitor pressure media in machine and plant engineering. Gold-plated contacts are also optionally available for low switching currents.

Features

- Switching points from 0.2 bar
- Small size (44 mm)
- Low priced

Applications

- Mechanical engineering
- Plant construction

| Adjustment ranges (bar) | Overload limit (bar) | Repeat-ability ¹⁾ (bar) | Hysteresis (%) | Measuring principle | Switching function | |
|-------------------------|----------------------|------------------------------------|----------------|---------------------|--------------------|--------------|
| | | | | | NC | NO |
| 0.2 ... 2 | 2 | ± 0.2 | ~10 | Diaphragm | S4140B071001 | S4140B071101 |
| 0.5 ... 10 | 10 | ± 0.5 | | | S4140B075001 | S4140B075101 |

¹⁾ The repeatability refers to 20°C.

Model: S4140

Technical data

| Mechanical pressure switch | |
|---|---|
| Model | S4140 |
| Execution | positive gauge pressure |
| Media | compressed air, neutral fluid, self-lubricating fluid |
| Process connection standard optional | G1/4 G1/8; others on request |
| Measuring principle | spring loaded diaphragm |
| Materials Measuring element standard optional Thread standard optional | NBR EPDM; FPM others on request zinc plated steel brass; stainless steel; others on request |
| Switching outputs Number Switching function Switching element standard option Adjustment standard option | 1 NC or NO silver plated contacts gold plated contacts on-site, with adjustment screw factory adjusted |
| Hysteresis | ~ 10% |
| Power rating¹⁾ DC up to 42 V AC up to 42 V | 2 A 2 A |
| Load cycles | max. 200/min |
| Temperature ranges | -25 °C ... +85 °C |
| Electrical connection | flat connector 2 x 6.3 x 0.8 mm |
| Protection type | IP00 |
| Mounting position | any |
| Weight | 0.06 kg |

¹⁾ All specification for ohmic load.

| Dimensions (in mm) | Electrical connection | |
|--------------------|-----------------------|----|
| | NC | NO |
| | | |

Subject to technical alternations