

Mechanical pressure switch Block Type

SPDT with high accuracy



Description

With these pressure switches pneumatic or hydraulic signals are converted into electric signals. The switching point is fully adjustable by means of a simple adjustment knob within the adjustment range. The micro-switch can be used as an NO, a NC or SPDT contact.

All switches are equipped with the most used DIN 43650 connector which allows easy and fast assembly. The switch is also available with socket with LED for an easier switch-point adjustment and visualize the switching status. In addition, switches are also available without the socket and the type S4340 with el. connection M12x1.

The measuring ranges and choice of materials for this series of pressure switches make them especially suitable for all measuring tasks in pneumatic or hydraulic systems. They can be reliably employed wherever high switching performance under high pressure is called for. By virtue of their exceptional resistance to shock and vibration, these mechanical switches are equally suitable for use in mobile hydraulics.

The pressure switches are designed for industrial use under normal environmental conditions. Devices for special applications, higher system pressures or other pressure ranges are available on request.

Feature

- High accuracy $\pm 2\%$ of FS
- Robust design
- Easy to adjust
- High loadability (30g)
- El. connection M12x1 (optional)
- Status-LED (optional)

Applications

- Mechanical engineering
- Plant construction
- Hydraulic incl. mobile hydraulics
- Pneumatic-systems

| Adjustment ranges (bar) | Overload limit (bar) | Hysteresis (% FS) | Measuring principle | Function |
|----------------------------|-------------------------|----------------------|---------------------|--------------|
| | | | | SPDT |
| 0,2..2 | 20 | 1..11 | Diaphragm | S4340B071001 |
| 0,5..8 | | | | S4340B144001 |
| 1..16 | | | | S4340B076001 |
| 10..30 | 350* | 2..8 | Piston | S4350B133001 |
| 10..80 | | | | S4350B153001 |
| 10..120 | | | | S4350B866001 |
| 10..160 | | | | S4350B082001 |
| 20..200 | | | | S4350B083001 |
| 20..250 | | | | S4350B084001 |
| 30..320 | | | | S4350B085001 |

* higher pressures on request.

Model: S4340; S4350

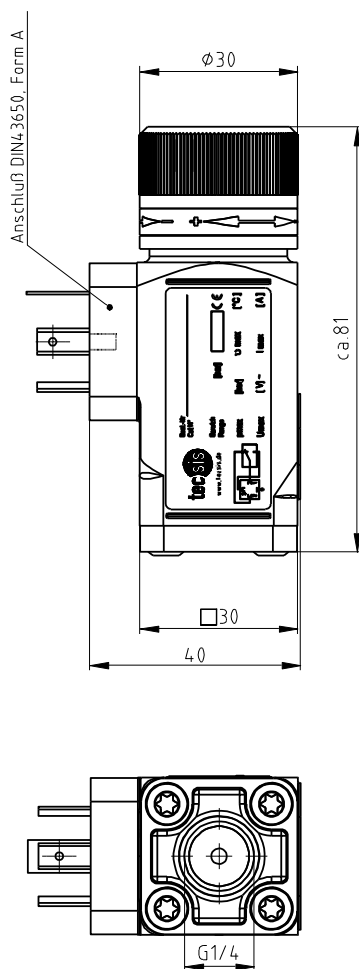
Technical data

| | Mechanical pressure switch block type | |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model No. | S4340 | S4350 |
| Execution | positive gauge pressure | |
| Media | compressed air, neutral fluid , other fluids or gages preferable with material stainless steel and PTFE | self-lubricating fluid (like hydraulic oil, light heating oil, grease) |
| Process connection standard option | G1/4 female flange connection (horizontal) G 1/4 not turnable | G1/4 turnable flange connection vertical DIN ISO 16873 G 1/4 female |
| Measuring principle | spring loaded diaphragm | spring loaded piston |
| Materials measuring element standard option pressure connection option housing standard | NBR PTFE, others on request pressure die-cast (G 1/4 female) zinc plated steel (G 1/4) stainless steel (G 1/4 and G1/4 female) pressure die-cast | piston: stainless steel dynamic: PTFE; static: NBR others on request zinc plated steel (G 1/4 and G 1/4 female) pressure die-cast (flange vertical) pressure die-cast |
| Switching outputs number switching function switching element standard adjustment standard option | 1 SPDT micro-switch silver plated contacts in situ continuously adjustable, with adjustment knob factory adjusted | |
| Hysteresis (20°) | 1% .. 11% of FS | 2% .. 8% of FS |
| Power rating DC to 28 V AC to 250 V | max. 4A max. 3A | |
| Frequenzy | max. 200/min | |
| Repeatability (20°C) | ±2% of FS | |
| Temperature ranges media ambient | -10°C..+80°C -10°C..+80°C | |
| Electrical connection standard option | DIN43650 M12x1 | DIN43650 |
| Mounting | 2 through bore-hole Ø5,2mm | with process connection |
| Protection class | DIN43650 : IP65 M12x1: IP67 | DIN43650: IP65 |
| Loading capacity Shock (mechanical) Vibration(under resonance) | 30g 10g | |
| CE-sign | acc. EU-directive 73/23/EWG | |
| Mounting position | any | |
| Weight | app. 0.30 kg | app. 0.33 kg |

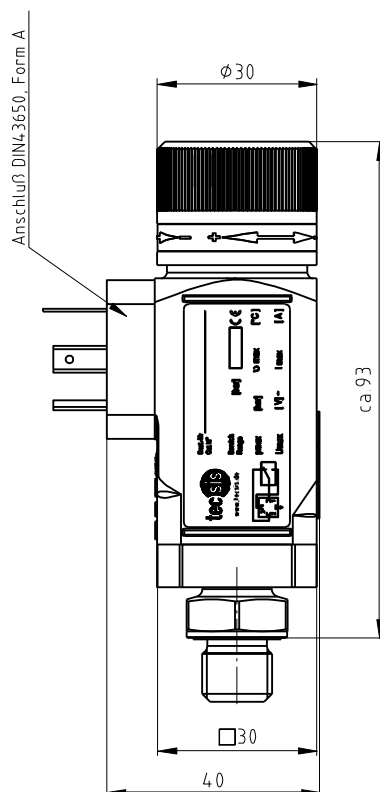
Dimensions

(in mm)

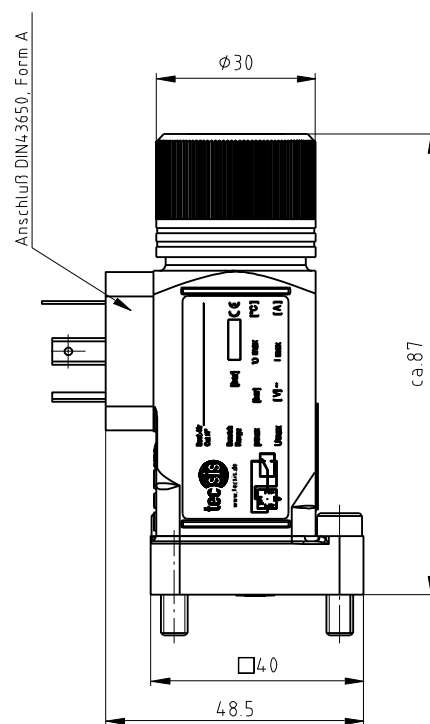
S4340 G $\frac{1}{4}$ female



S4350 G $\frac{1}{4}$ turnable

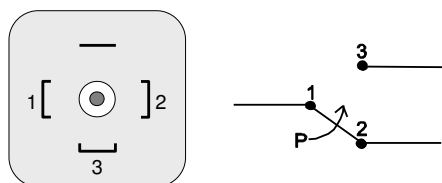


S4350 flange connection DIN ISO 16873

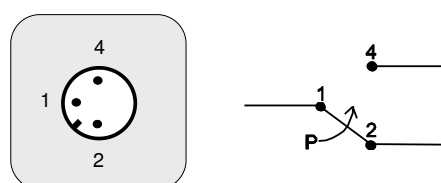


Electrical connection

DIN 43650



M12x1



Subject to technical alterations