

Electronic Pressure Switch

Type UDS1V2

Electronic pressure switch for pressure control with internal stainless steel diaphragm, with 2 solid state outputs or 1 solid state output with adjustable hysteresis.

Features

- Teach & Go
- Compact construction
- Housing 320° rotatable

Measuring ranges

0 ...10 bar to 0...600 bar

Applications

OEM applications in hydraulic and pneumatic systems, press construction, lubricant monitoring, apparatus engineering, machine/machine tool industry, automobile industry, injection molding machines



Technical Data

| | |
|--|--|
| Sensor element: | Ceramic sensor optional: piezoresistive sensor; at 600 bar: only piezoresistive sensor |
| Materials: Wetted parts: Electronics housing: Seals: | Steel, pass., Al2O3 PA 6.6 FKM |
| Operating elements: | 2 easy response push buttons |
| System of protection: | IP65 |
| Protection class: | III |
| Process connection: | G 1/4" AG Others on request |
| Dimensions: | approx. Ø 28 x 100 mm (without plug connector) |
| Measuring ranges: | 0...10 bar to 0...600 bar 0...150 to 0...9000 PSI |
| Electrical connection: | Plug M12x1, 4-pin |

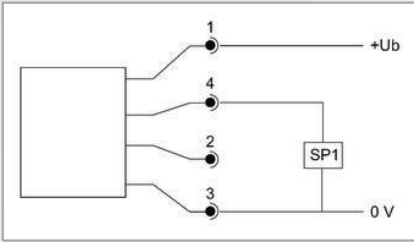
| | |
|---|--|
| Temperature influence: | ± 0.2 % f.s./10K |
| Compensation range: | -10 °C...+70 °C |
| Repeatability: | +/- 1 % f.s. |
| Temperature range: Medium: Electronics: Storage: | -25 °C...+100 °C -25 °C...+80 °C -30 °C...+80 °C |
| Power supply: | 15...32 V DC, reversed polarity protected (SELV, PELV) |
| Transistor switching outputs PNP: Adjustment range for switching point- and hysteresis*: frequency: current rating: | 0 % ...100 % f.s. Max. 100 Hz Max. 200 mA, short-circuit proof |
| Vibration | 10 g/20...2000 Hz |
| Shock | 100 g/11 ms |

* only 1SP version (2SP version 15% hysteresis)

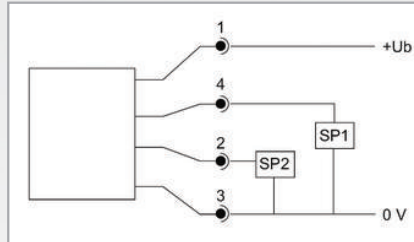
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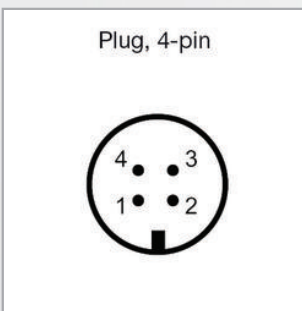
Connection Diagram 1



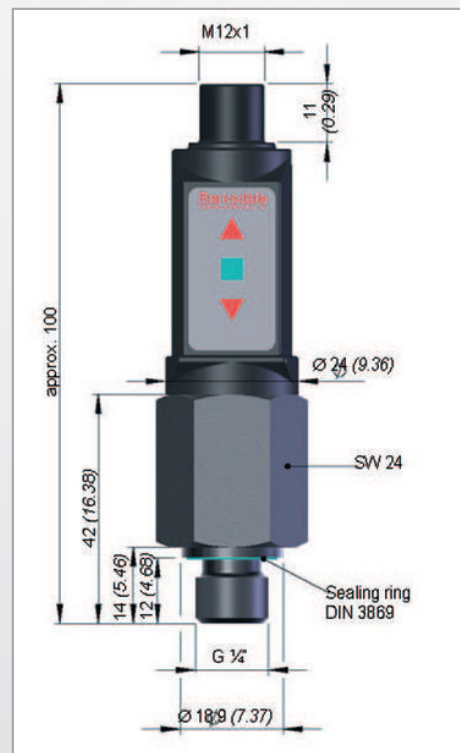
Connection Diagram 2



Plug



Dimensions (mm / inch)



Order Numbers

| Pressure range | 0...10 bar | 0...100 bar | 0...400 bar | 0...600 bar |
|---|------------|-------------|-------------|-------------|
| 1 switching output with adjustable hysteresis | 0421-060 | 0421-061 | 0421-062 | 0421-063 |
| 2 switching outputs with 15% hysteresis | 0421-064 | 0421-065 | 0421-066 | 0421-067 |

Accessories

| Order Number | Description |
|--------------|---|
| 907-0357 | Plug connector M12x1, 4-pin, with screw terminals, angled |
| 907-0344 | Plug connector M12x1, 4-pin, with screw terminals, straight |