







Pressure sensor DSC3

Digital pressure switch with hysteresis and window function mode



| | |
|---|-------------------------------------|
|  | Oil or fluid grease up to NLGI 0 |
|  | max. 300 bar (4 350 psi) |
|  | -25 to +80 °C (-13 to 176 °F) |
|  | 2 x PNP transistor stages |
|  | 2 x G1/8 via t-connector |
|  | M12×1 4-pin socket |



Applications

- Machine tools
- Printing machines
- Wind turbines
- Service vehicles
- Steel and heavy industries

Product information



Description

DSC3 sensors are electronic pressure switches with an integrated digital display for relative pressure measurement. They are used primarily for pressure monitoring. Depending on the design, they also can assume control functions. Pressure switch points, pressure indication and the switching logic can be configured and programmed easily. The display is a pivoted, four-digit, digital display. DSC3 can be integrated into lubrication line. It operates in switching point, hysteresis, and window function modes. The switching mode can be programmed separately for each output.

Features and benefits

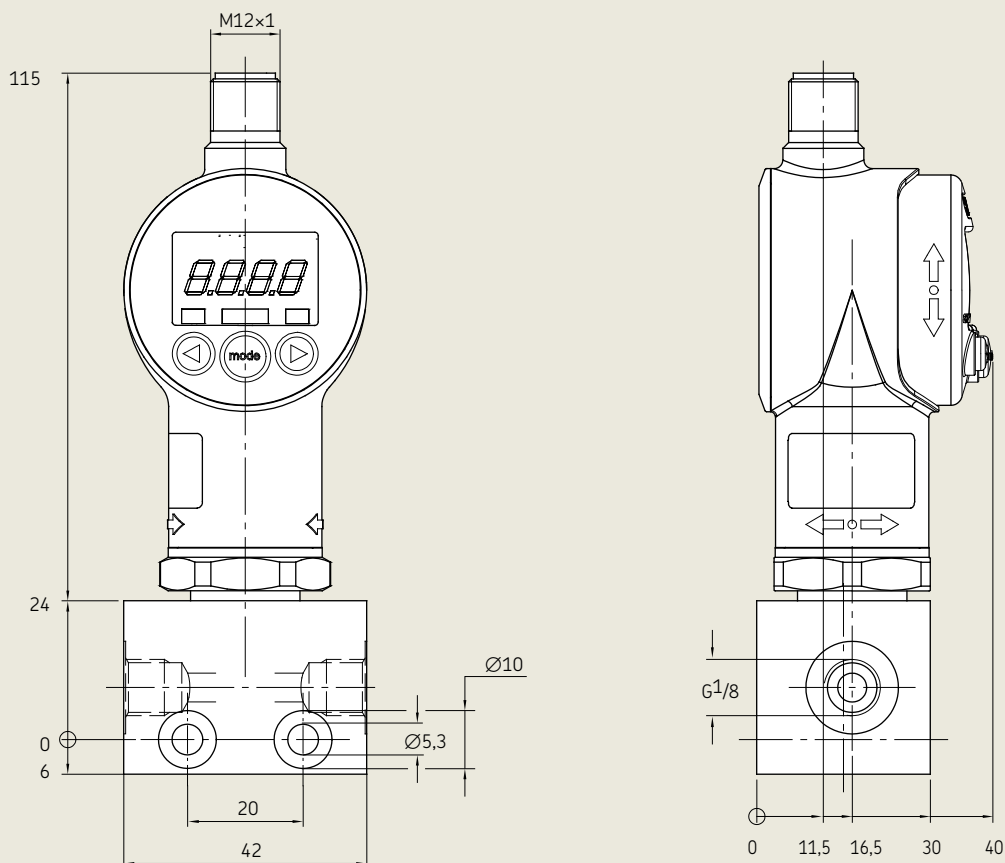
- Available for rising and falling pressures from 0 to 100 bar in 0,5-bar increments
- Easy to install into a lubrication line
- Pivoted, four-digit, digital display
- Can operate in switching point, hysteresis and window function modes
- Programmable lock to protect against unauthorized adjustment of drive
- Switching displayed using LEDs

Technical data

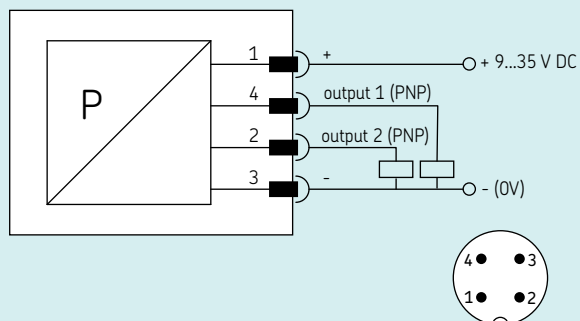
| | |
|--------------------------|---|
| Order number | DSC3-A100K-3A2B |
| Function principle | digital pressure switch |
| Lubricant | oil and fluid grease NLGI: 000–0 |
| Operating temperature | –25 to +80 °C –13 to 176 °F |
| Operating pressure | 0–100 bar in 0,5 bar increments 0–1 450 psi in 7.25 psi increments |
| Permissible overpressure | max. 300 bar max. 4 350 psi |
| Burst pressure | > 500 bar > 7 251 psi |
| Operating voltage | 9 to 35 VDC |
| Power consumption | max. 35 mA |
| Output signal | 2 × PNP transistor stages |
| Vibration resistance | 20 g (5–500 Hz) |
| Service life | 100 × 10 ⁶ pressure changes |
| Material: | |
| Housing | plastic |
| Electrical connection | M12×1, 4-pin |
| Pressure port | via t connector, 2 × G 1/8 (F) |
| Protection class | IP 67 |
| Dimensions | 42 × 115 × 40 mm 1.65 × 4.53 × 1.57 in |
| Mounting position | any |

Drawings and plans

Technical drawing



Electrical connection



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