



Pressure sensors
Pressure switch

PBS-RP050SN1SS0D5A0Z



Model Name > [PBS-RP050SN1SS0D5A0Z](#)
Part No. > [6041232](#)



Product may differ from illustration

At a glance

- Gauge measurement ranges from 0 ... 1 psi up to 0 ... 8000 psi
- No moving parts: No mechanical wear, fatigue-proof, maintenance-free
- Stainless steel membrane
- Various programmable switching functions
- Digital outputs PNP or NPN, Analog output signal 4 ... 20 mA or 0 ... 10 V
- Min/max pressure memory
- Password protection
- Selection of different pressure units for the display
- IO-Link optional

Your benefits

- Compact size takes up less space
- Dual rotatable housing ensures flexible installation
- Quick and easy setup and operation due to three large buttons and bright display
- Wide range of applications
- Resistant against corrosive media due to circularly welded, hermetically sealed stainless steel membrane
- Available in a wide selection of configurations, enabling a perfect match to individual customer requirements
- IO-Link technology provides time and cost savings by enabling parameter adjustments, for example, upon product changeover to be performed remotely



Features

Pressure type:	Gauge pressure
Measuring range:	0 psi ... 50 psi
Process temperature:	-20 °C ... 85 °C
Rated temperature:	0 °C ... 80 °C
CE-conformity:	✓
Display:	14-segment-LED, blue, 4-digits, height 9 mm, electronically turnable by 180°, Update: 1000, 500, 200, 100 ms (adjustable), Accuracy: ≤ 1.0 % of span ± 1 digit
Output signal:	2x PNP + 4...20 mA

Performance

Accuracy:	≤ +/- 1 % (of span)
Non-linearity:	0.5 % (Best Fit Straight Line (BFSL))

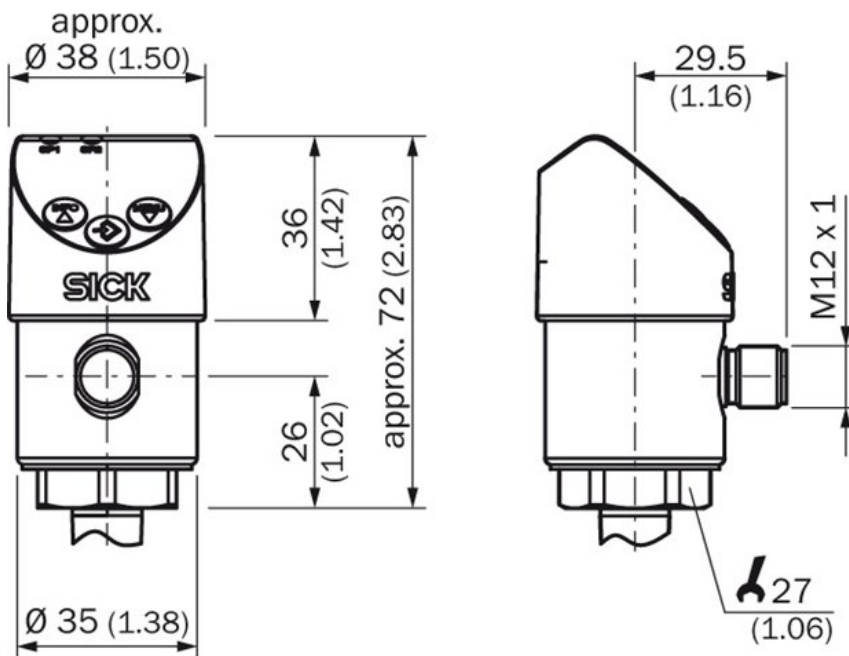
Mechanics/electronics

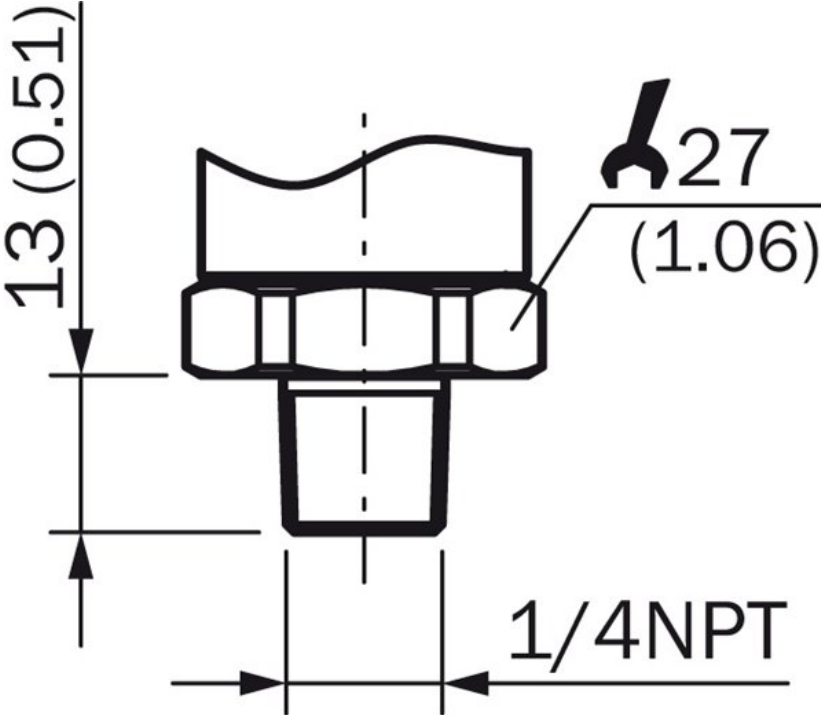
Process connection:	1/4" NPT
Wetted parts:	Pressure Connection: 316L, Pressure sensor: 316 L (for measurement ranges from 0 ... 10 bar rel: 13-8 PH)
Seal:	Without seal
Housing material:	Display window: PC, Plastic head: PC + ABS, Buttons: TPE-E, Lower body: 316 L
Enclosure rating:	IP 67
Connection type:	Plug M12 x1, 5-pin
Supply voltage:	15 V DC ... 35 V DC
Power consumption:	100 mA
Electrical safety:	Short-circuit protection: QA, Q1, Q2 towards M, Protection class: III, Overvoltage protection: 40 V DC, Reverse polarity protection: L+ towards M
Protection class III:	✓

Ambient data

Ambient temperature:	-20 °C ... 80 °C
Shock load:	50 g according to IEC 60068-2-27 (mechanical shock)
Vibration load:	10 g according to IEC 60068-2-6 (vibration under resonance)

Dimensional drawing housing





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