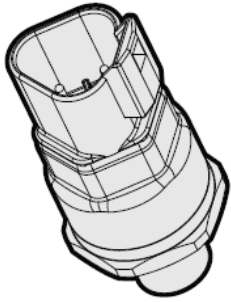




Overview



Description

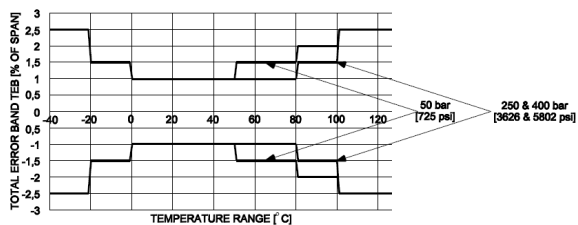
OEM pressure sensors with voltage output and Deutsch 3-pin DT04-3P connector. 3 pressure ranges available with G1/4A or SAE 6 ports, RoHS compliant.

Features

- Powerful, reliable, and extremely resilient pressure sensor
- CE, EMC, and RoHS compliant
- Total error band 1% of span
- Constant performance stability throughout the entire performance life
- Vibration and shock resistance
- Short-circuit and reverse polarity protection
- IP67 ingress rated

Performance

TOTAL ERROR BAND
INCLUDING NON-LINEARITY, HYSTERESIS, NON-REPEATEDLY, ZERO POINT AND FULL SCALE DEVIATION, TEMPERATURE ERROR, TEMPERATURE HYSTERESIS AND ERROR THROUGH ATMOSPHERIC AIR PRESSURE FLUCTUATIONS



Performance

Measuring ranges	0 to 50 bar (0 to 725 psi) 0 to 250 bar (0 to 3625 psi) 0 to 400 bar (0 to 5800 psi)
Overload safety	3 times - Note: 250 bar (3625 psi), 400 bar (5800 psi)
Vacuum tightness	Yes
Non-linearity	±0.25%
Accuracy	1.0 % of span - Note: Total error band 0 to 80 °C (0 to 176 °F)
Long term drift	±0.1% - Note: FS
Service life	100 Million load cycles - Note: 250 bar, 400 bar (3625 psi, 5800 psi)
Settling time	<1 ms
Switch-on time	200 ms



Ratings

Electrical Parameters

Power supply	8 to 36 Vdc
Output signal	0.5 to 4.5 Vdc - Note: 3-wire
Permissible load	4500 \hat{I} @
Total current consumption	≈ 10 mA
Electrical connection	Deutsch DT04-3P - Note: 3-pin
Short-circuit protection	Yes
Reverse polarity protection	Yes
Overvoltage protection	48 Vdc
Insulation voltage	500 Vdc

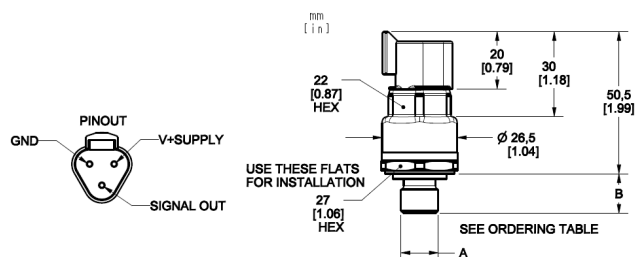
Environmental Ratings

Wetted parts	304L - Note: ph-grade steel
Non-wetted parts	304L
Electrical connections	Highly resistant glass-fiber reinforced plastic (PBT)
Ambient temperature	-40 to 125 °C (-40 to 257 °F)
Ambient temperature	-40 to 125 °C (-40 to 257 °F)
Ambient temperature	-40 to 125 °C (-40 to 257 °F)
Medium temperature	-40 to 100 °C (-40 to 121 °F)
Storage temperature	-40 to 70 °C (-40 to 158 °F)
Vibration resistance	40 G - Note: 2000 Hz
Mechanical shock resistance	10 G - Note: 11 ms
EMC field	100 V/m - Note: per ISO 11452-2
Ingress protection	IP67
CE conformity	2014/30/EU, EN 61326-2-3:2013
EMC directive	EN 61326
RoHS conformity	2011/65/EU - Note: Europe SJ/T 11364-2014 - Note: China

Installation

Process connection	SAE 6 ORB - Note: J514 9/16-18 UNF G 1/4 A - Note: DIN EN ISO 1179-2 (formerly DIN 3852-E)
Sealing	NBR
Maximum torque	30 N-m (22.13 ft-lb) - Note: When installing with open-end wrench 50 N-m (36.88 ft-lb) - Note: When installing with socket
Wrench size	27 mm

Dimensions and Pinout





To Order

Part No.	Pressure	Port size	Dim A	Dim B
4003000	50 bar (725 psi)	G 1/4 A	ISO 1179-2	14 mm (0.55 in)
4003001	250 bar (3625 psi)	G 1/4 A	ISO 1179-2	14 mm (0.55 in)
4003002	400 bar (5800 psi)	G 1/4 A	ISO 1179-2	14 mm (0.55 in)
4003003	50 bar (725 psi)	SAE 6	9/16-18 UNF-2A	12.85 mm (0.51 in)
4003004	250 bar (3625 psi)	SAE 6	9/16-18 UNF-2A	12.85 mm (0.51 in)
4003005	400 bar (5800 psi)	SAE 6	9/16-18 UNF-2A	12.85 mm (0.51 in)

Mating connector kit: Deutsch DT04-3S Part No. 4001952