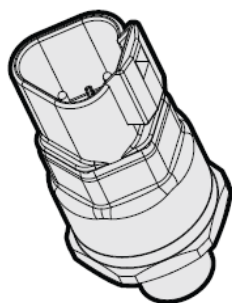


Overview



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.

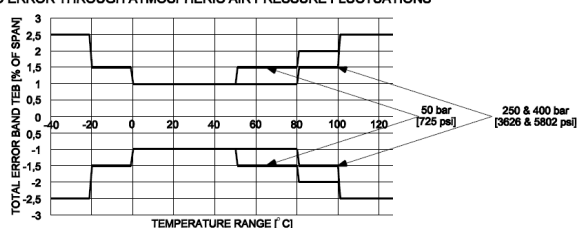
Features

- 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	$\hat{I}_{00} \pm 10$ 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	

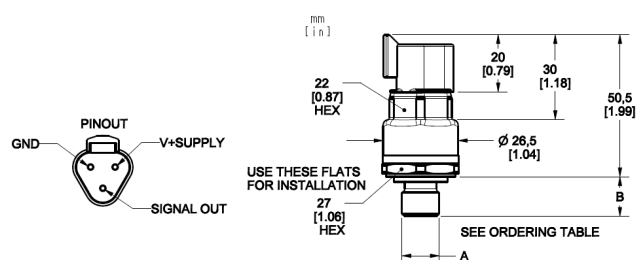
Environmental Ratings

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