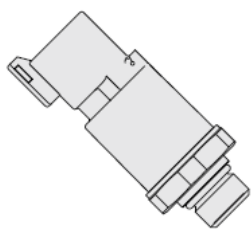




Overview



Description

High-accuracy heavy-duty pressure sensors with 1% total error band accuracy accomplished by marrying a high performance ASIC to a very stable, field-proven polysilicon, thin-film pressure sensor. These sensors are intended for use in demanding industrial and off-highway equipment.

Features

- Advanced ASIC technology for reliability and accuracy
- 1% total error band accuracy within -20 to 85°C (-4 to 185°F) temperature range
- Reverse polarity and miswire-protected
- Broad temperature capability
- All-welded pressure construction
- High EMI/RFI rating
- IP67 ingress rated
- Diagnostic rails <0.5 and >4.5 V

Ratings

Electrical Parameters

Supply voltage	5 Vdc 9 to 36 Vdc
Voltage output	0.5 to 4.5 Vdc
Accuracy	±1% - Note: To -20 to 85 °C (-4 to 185 °F) temperature extremes

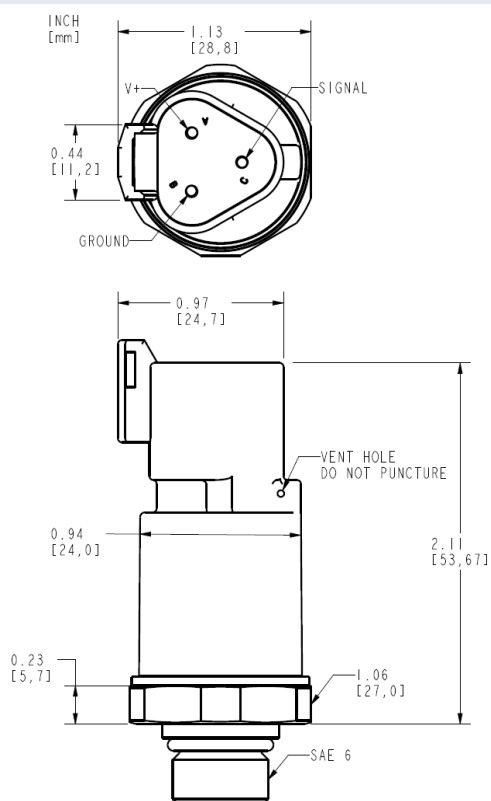
Environmental Ratings

Response	<1 ms
Operating and storage temperature	-40 to 125 °C (-40 to 257 °F)
Humidity	0 to 100% RH
Vibration	5 G - Note: 20 to 2000 Hz
Ingress protection	IP67
CE rating	EN61326: 1997, 1998 +A2.2001 Annex A (heavy industrial)

Installation Requirements

Connector	Deutsch DT04-3P
Port	SAE #6 ORB, 9/16-18 UNF-2A
Installation torque	27 to 34 N-m (20 to 25 ft-lb)

Dimensions



To Order

Part No.	Model No.	Range	Vs	-Vs	Is max.	Proof	Burst
4000650	ERP035-RM-ID-06	35 bar (500 psig)	5 Vdc	-5 Vdc	3.5 mA	200%	1000%
4000651	ERP103-RM-ID-06	103 bar (1500 psig)	5 Vdc	-5 Vdc	3.5 mA	200%	500%
4000652	ERP207-RM-ID-06	207 bar (3000 psig)	5 Vdc	-5 Vdc	3.5 mA	200%	500%
4000653	ERP345-RM-ID-06	345 bar (5000 psig)	5 Vdc	-5 Vdc	3.5 mA	150%	500%
4000654	ERP414-RM-ID-06	414 bar (6000 psig)	5 Vdc	-5 Vdc	3.5 mA	150%	500%
4000655	ERP035-B-ID-06	35 bar (500 psig)	9 to 36 Vdc	-36 Vdc	5 mA	200%	1000%
4000656	ERP103-B-ID-06	103 bar (1500 psig)	9 to 36 Vdc	-36 Vdc	5 mA	200%	500%
4000657	ERP207-B-ID-06	207 bar (3000 psig)	9 to 36 Vdc	-36 Vdc	5 mA	200%	500%
4000658	ERP345-B-ID-06	345 bar (5000 psig)	9 to 36 Vdc	-36 Vdc	5 mA	150%	500%
4000659	ERP414-B-ID-06	414 bar (6000 psig)	9 to 36 Vdc	-36 Vdc	5 mA	150%	500%

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