

PRESSURE SENSORS: TYPE PR100

SILICON SENSOR IN METAL BODY

PROVISIONAL DATA

DESCRIPTION:

Isolated diaphragm micromachined silicon pressure sensor mounted in a threaded metal housing with integral connector.

FEATURES:

- Suitable for use in corrosive media
- Stainless steel diaphragm
- Rated pressures 1 to 50 Bar
- Operation up to 125°C
- Accuracy $\pm 2\%$ FSO
- Current or voltage output
- Ratiometric or absolute voltage output
- Absolute or gauge pressure indication
- Knurled body for hand tightening
- Range of thread sizes and materials
- Groove for o-ring seal
- Typical applications include domestic heating, refrigeration & air conditioning systems, sterilisation equipment

OPTIONS:

- Other pressure ratings
- Alternative output ranges and tolerances
- Different connectors
- Other thread sizes
- Alternative thread materials e.g. Hastalloy C276, Monel 400, Inconel, Titanium
- Different diaphragm materials e.g. Nickel



DATA:

Rated pressure 1 to 50 Bar (see table)

Maximum overload 3 x rated pressure

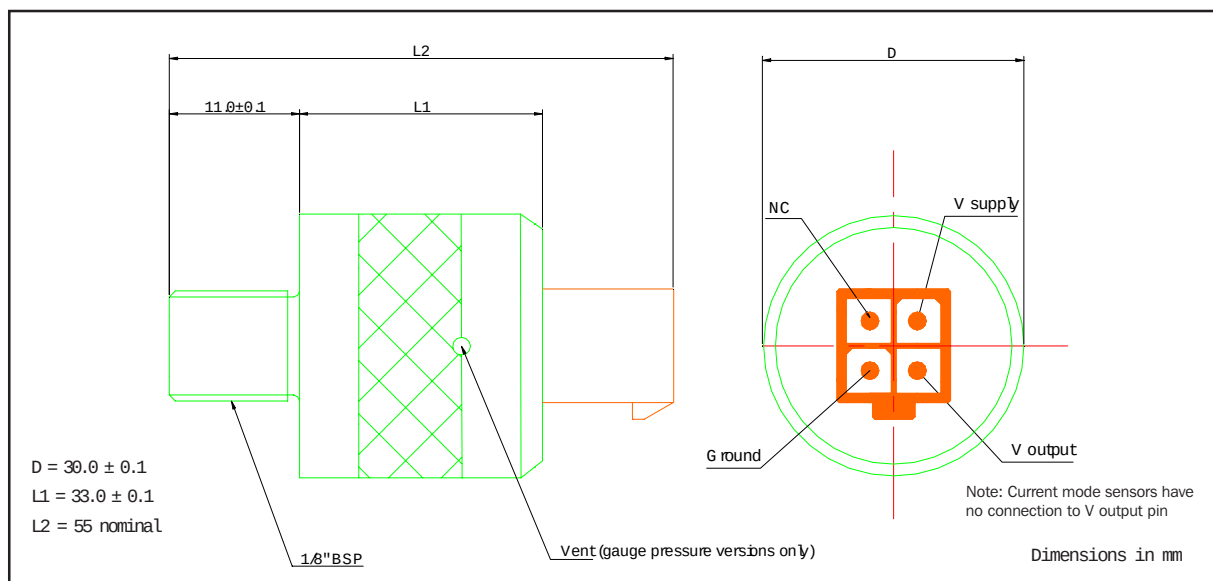
Temperature range -40 to +125°C

Supply voltage 6 to 28 V d.c. (voltage mode)

Output range 0.5-4.5 V or 4-20 mA d.c.

Accuracy $\pm 2\%$ FSO over -20 to +120°C

DIMENSIONS:



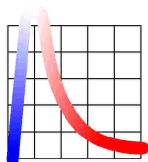
Data sheet D-PR100-A

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CODING:

e.g. PR100G001VA-ABF

Example	Description	Standard values	
PR100	Sensor style		
G	Pressure mode	A G	Absolute Gauge
001	Pressure rating	001 002 005 010 020 050	1 Bar 2 Bar 5 Bar 10 Bar 20 Bar 50 Bar
VA	Output mode	VA VR CM	Voltage absolute Voltage ratiometric Current
A	Thread size	A B C D	1/8 BSP 1/4 BSP M10 x 1.25 7/16-20 UNF
B	Thread material	A B	Stainless steel AISI 316 Brass CZ132 (DZR)
F	Connector	F	AMP 794303-1

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