



Pressure Sensor, 0-1MPa, Gauge, 3.3VDC, I2C signal

PS8808 Series IOT Pressure Sensors Technical Data Sheet

PS8808-1000k3CBNG

Features

- Pressure range 0-1MPa
- Gauge pressure sensor
- Constant current / Constant Voltage power supply
- Output in I²C interface and protocol
- Stainless Steel 316L

Applications

- Industrial process control
- Gas, liquid pressure measurement
- Pressure checking meter
- Pressure calibrator
- Cooling equipment and air conditioning system
- Aviation and navigation inspection

Description

PS8808-1000k3CBNG Digital Output Pressure Transducer is a piezoresistive pressure sensor with 316L stainless steel corrugated diaphragm and isolated oil-filling construction. The sensing package utilizes silicone oil to transfer pressure from the 316L stainless steel diaphragm to the sensing die. The pressure is transformed to an analog electrical signal. With an integrated circuit for temperature compensation and nonlinear correction, it provides output data conforming to I²C interface protocol. It is widely used for various liquid pressure measurements compatible with stainless steel and viton.

Product Configuration

Application:	Pressure Sensor
Pressure Type:	Gauge
Electrical Connector:	5-pin PH2.0

General Specifications

Description	Minimum	Typical	Maximum	Unit
Pressure Range	0		1	MPa
Accuracy (Pressure)		±0.5		%Full Scale
Accuracy (Temperature)		±1.5		°C
Long Term Stability		±0.3		%Full Scale/year
Overpressure		1.5		xFull Scale

Electrical Specifications

Description	Minimum	Typical	Maximum	Unit
Output Signal		5%-95%		
Power Supply/Excitation Level		3.3±0.1		VDC
Power Supply Current		2.5		mA
Sampling Interval			1.5	msec



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Material Specifications

Description	Material
Diaphragm	Stainless Steel 316L
Plug Housing	Stainless Steel 316L

Mechanical Specifications

Electrical Connection

Wire Color	(I ² C) Standard Mode
Black	-IN
Red	+IN
Blue	SCL
White	SDA
Yellow	NULL



Environmental Specifications

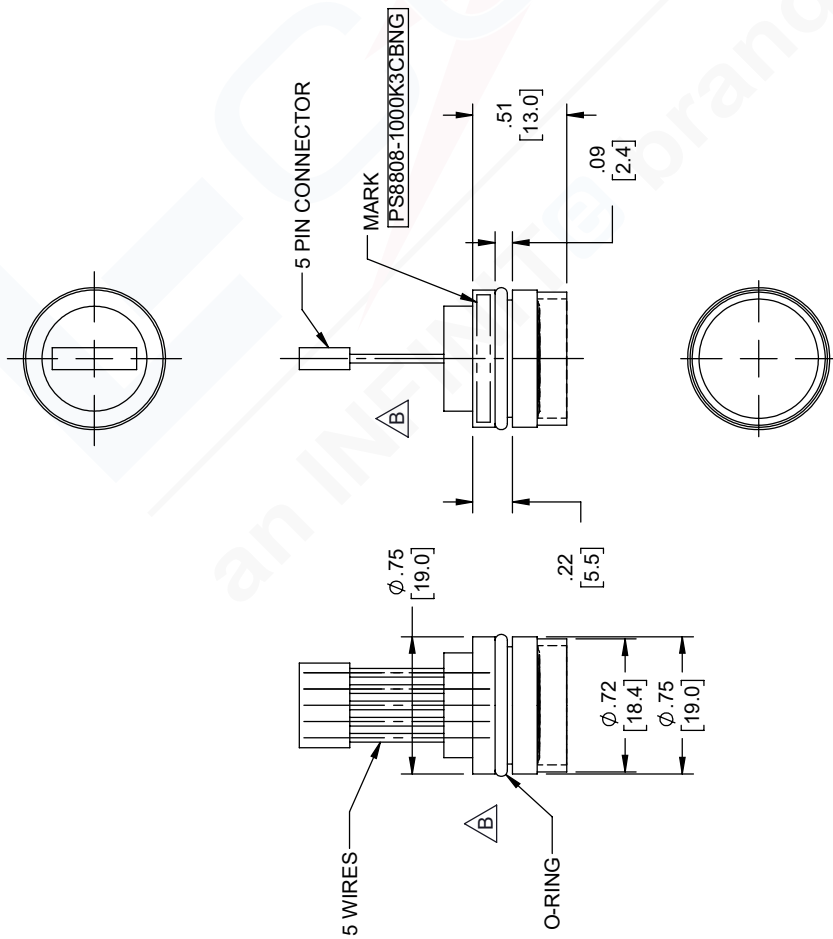
Temperature (Operating)	-10°C to 80°C
Temperature (Storage)	-40°C to 125°C
Shock	10g, 20Hz-2000Hz
Impact	100g, 11ms
Certifications	ROHS Compliant CE Compliant

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PS8808-1000k3CBNG CAD Drawing
Pressure Sensor, 0-1MPa, Gauge, 3.3VDC, I2C signal

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	ECN 10085: DELETED DIM [4.0] & [14.5]	08/28/19	TOZA



UNLESS OTHERWISE SPECIFIED
LENGTH DIMENSIONS ARE IN INCHES
DIMENSIONS IN [] ARE IN MILLIMETERS

TOLERANCES:
X±.2 [5.08] FRACTIONS
.XX±.01 [.25] ± 1/32
XXX±.005 [.13] ANGLES ± 1°

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE	DRAWN BY	PART NUMBER	REV
A	43321	DZINN	PS8808-1000K3CBNG	B

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