



Pressure Sensor, 0-350kPa, Gauge, 3.3VDC, I2C signal

PS8808 Series IOT Pressure Sensors Technical Data Sheet

PS8808-350k3CBNG

Features

- Pressure range 0-350kPa
- 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

PS8808-350k3CBNG 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		350	kPa
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

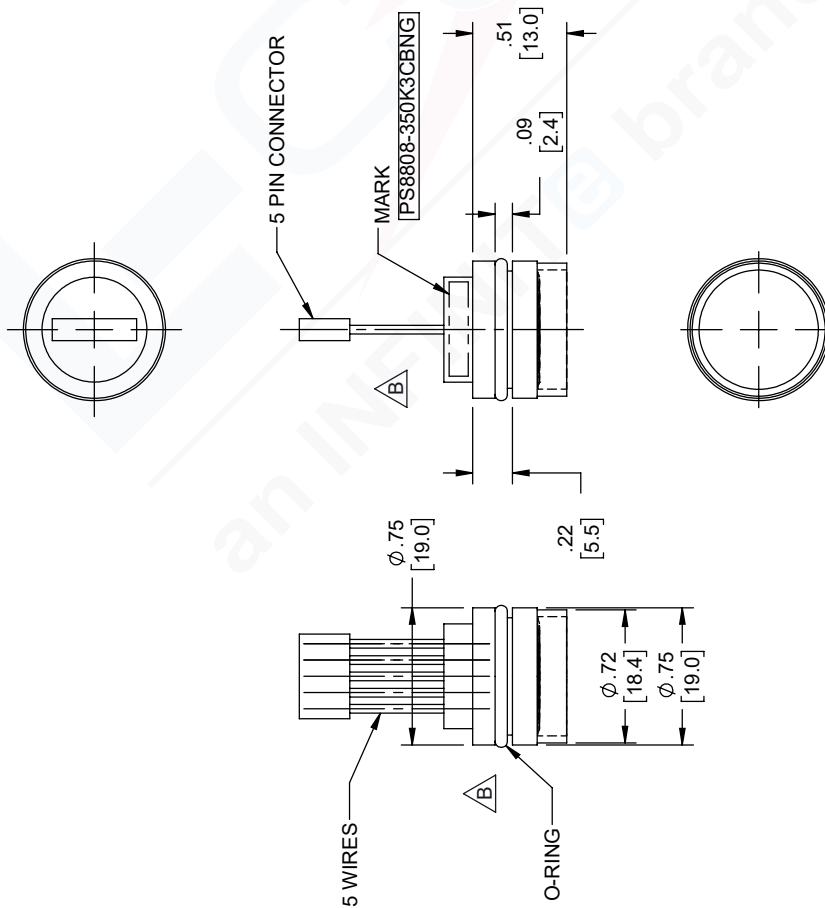
Temperature (Operating)	-10°C to 80°C
Temperature (Storage)	-40°C to 125°C
Shock	10g, 20Hz-2000Hz
Impact	100g, 11ms
Certifications	ROHS Compliant CE Compliant

The Infinite Electronics portfolio includes coaxial cable assemblies, connectors, adapters and custom products, as well as our wireless product line which includes antennas, RF amplifiers, lightning and surge protectors, and NEMA rated enclosures.

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PS8808-350k3CBNG CAD Drawing
Pressure Sensor, 0-350kPa, Gauge, 3.3VDC, I2C signal

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



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TOLERANCES: X=±.2 [5.08] FRACTIONS .XX=±.01 [.25] ±1/32 XXX=±.005 [.13] ANGLES ±1°		SHEET 1 OF 1		SCALE N/A	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		SIZE CAGE		REV	
THIRD-ANGLE PROJECTION		DRAWN BY		PART NUMBER	
		A 43321		PS8808-350K3CBNG	
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