Model Number 176B12 Performance Sensitivity(+/- 20 %) Measurement Range Maximum Pressure(Total) Resonant Frequency Transverse Resonance Frequency Response(± 5.0 %)	CHARGE OUTPUT PRESSURE SENSOR				
	ENGLISH 6 pC/psi 725 psi 5,200 psi ≥ 100 kHz > 15 kHz 20,000 Hz	SI 87 pC/bar 50 bar 358.5 bar ≥ 100 kHz > 15 kHz 20.000 Hz	[1][2]	Optional versions have identical where no	
Non-Linearity Environmental	≤ 1 % FS	≤ 1 % FS	[3]		
Acceleration Sensitivity Temperature Range(Continuous) Temperature Range(Connector) Temperature Response Hazardous Area Approval Radiation Exposure Limit(Integrated Neutron Flux)	≤ 0.0036 psi/g -94 to 1,400 °F -76 to 250 °F See Graph See Manual 1E10 N/cm²	≤ .00025 bar/g -70 to 760 °C -60 to 121 °C See Graph See Manual 1E10 N/cm²	[4]		

1E8 rad

Gamma Flux) Electrical

Radiation Exposure Limit(Integrated

Differential Differential **Output Polarity** Capacitance(with cable pin - pin) 150 pF 150 pF [4] Resistance(Pin-Pin)(Room Temp) ≥ 10⁹ Ohm ≥ 10⁹ Ohm Resistance(Pin-Case)(Room Temp) ≥ 10⁹ Ohm ≥ 10⁹ Ohm Resistance(Pin-Pin)(1400°F/760°C) ≥ 50,000 Ohm ≥ 50,000 Ohm Resistance(Pin-Case)(1400°F/760°C) ≥ 100,000 Ohm ≥ 100,000 Ohm

Physical Sensing Element UHT-12™ UHT-12™ Sensing Geometry Compression Compression Housing Material Nickel Alloy Nickel Alloy Welded Hermetic Sealing Welded Hermetic LEMO LEMO **Electrical Connector** Cable Type Hardline Hardline Cable Length 10 ft 3 m Weight(with cable) 4.6 oz 130 gm

NOTES

[4]

[1] Low frequency response is determined by external signal conditioning electronics.

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

[2] Upper frequency response is calculated from Resonant Frequency.

[3]Zero-based, least-squares line method.

[4]Typical.

[5]See PCB Declaration of Conformance PS058 for details.

CE UK CE [5]



Typical Sensitivity Deviation vs Temperature

10
5
0
-5
-10
0
250
500
750
1000
1250
1450
Temperature (°F)

1E8 rad

All specifications are at room temperature unless otherwise specified.
In the interest of constant product improvement, we reserve the right to change specifications without notice.
This model, designated with an RH prefix, is RoHS compliant. For further details, and to obtain PCB's RoHS Statement of Conformance, please visit http://www.pcb.com

SUPPLIED ACCESSORIES:

Model 065A71 Seal, 0.4315" OD x 0.375" ID x .030" thk, 316L silver plated (1) Model 69862-01 Clamp Nut (1)

Entered: ND	Engineer: AK	Sales: DPC	Approved: RPF	Spec Number:
Date: 12/01/2023	Date: 12/01/2023	Date: 12/01/2023	Date: 12/01/2023	78283



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