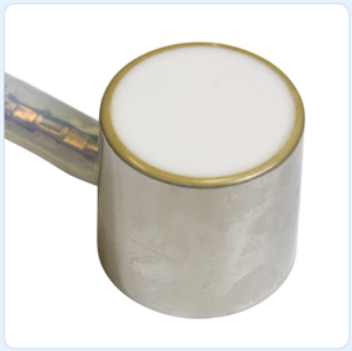
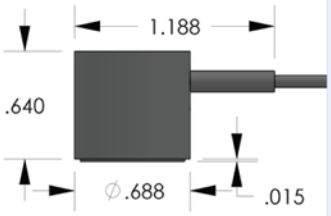
PRODUCT DATA SHEET

R30D Sensor

General Purpose Differential Sensor



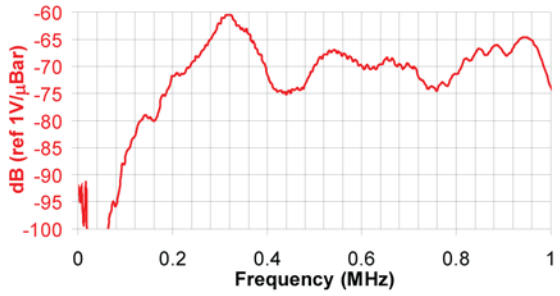


DESCRIPTION AND FEATURES

R30D is a differential sensor designed to isolate the sensing terminals electrically from the cavity. This electrical isolation makes the sensor particularly useful for applications where high background electrical noise is a major concern. It has a very good sensitivity and frequency response over the range of 150 – 400 kHz. The two signal leads from the sensing element feed into a differential pre-amplifier which eliminates common-mode noise resulting in a lower noise output from the pre-amplifier. This sensor features a rugged steel construction and a dual BNC connector with an integrated twin axial cable exiting on the side.

APPLICATIONS

The sensor can be used in applications that require very good EMI shielding, high sensitivity. Typical applications for the sensor include monitoring big power transformers, large steel and concrete structures.



OPERATING SPECIFICATIONS

Dynamic

Peak Sensitivity, Ref V/(m/s) ..... 58 dB
Peak Sensitivity, Ref V/µbar ..... -62 dB
Operating Frequency Range ..... 150-400 kHz
Resonant Frequency, Ref V/(m/s) ..... 300 kHz
Resonant Frequency, Ref V/µbar ..... 330 kHz

Environmental

Temperature Range ..... -65 to 177ºC
Shock Limit ..... 500 g
Completely enclosed crystal for RFI/EMI immunity

Physical

Dimensions ..... 0.7"OD X 0.65"H
18 mm OD X 17 mm H
Weight ..... 20 grams
Case Material ..... Stainless steel
Face Material ..... Ceramic
Connector ..... Dual BNC
Connector Locations ..... Side
Grounding ..... Internal (Isolated from casing)

ORDERING INFORMATION AND ACCESSORIES

R30D R30D
Cable (specify length in '-XX' m at end of PN) ..... 1 m
Preamp to System Cable (specify length in 'm') 1234-X
Magnetic Hold-Down ..... MHSTD
Preamplifier 0/2/4, 2/4/6, IL4D
Amplifier subsystems ... AE2A, AE5A or standard AE systems

Sensors include

NIST Calibration Certificate & Warranty

ISO 9001

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