

PRODUCT DATA SHEET

RS30 Sensor

Rolling Sensor

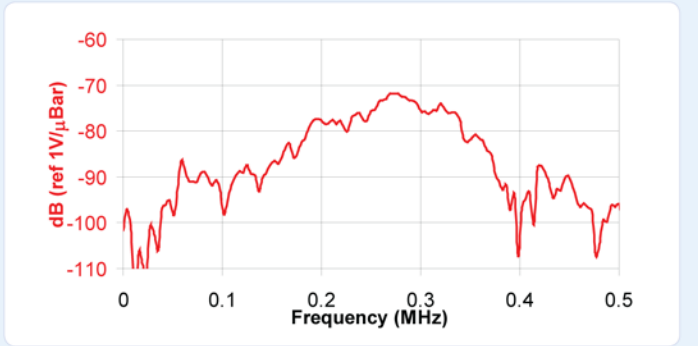
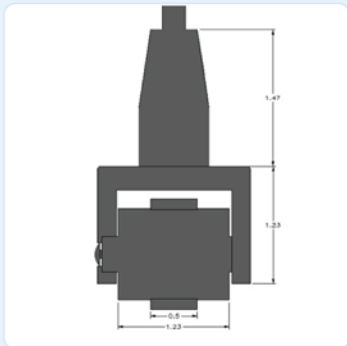


DESCRIPTION AND FEATURES

The RS30 is a rolling AE sensor built in an Aluminum cavity with a microdot connector. The sensor is designed to have a very high sensitivity and a narrow band with a resonant frequency of 300 kHz. It uses a dry couplant while rolling which makes it an ideal candidate for automated and robotic inspections.

APPLICATIONS

The sensor is primarily designed for non destructive inspection of large structures. Its smooth rolling feature helps operators quickly inspect large areas. Typically used with crawlers or robotic arms for inspection.



OPERATING SPECIFICATIONS

Dynamic

Peak Sensitivity, Ref V/μbar -74 dB
 Operating Frequency Range 160-340 KHz
 Resonant Frequency, Ref V/(m/s) 300 dB
 Directionality +/- 1.5 dB

Environmental

Temperature Range 0 to 125°C
 Shock Limit 500 g
 Completely enclosed crystal for RFI/EMI immunity

Physical

Dimensions 1.19"OD X 1.22" long wheel
 30.2 mm OD X 31 mm long wheel
 Weight 200 grams
 Case Material Anodized Aluminum
 Face Material Silicone rubber
 Connector Microdot
 Connector Locations Side

ORDERING INFORMATION AND ACCESSORIES

RS30 RS30
 Cable (specify length in 'XX' m at end of PN) 1232-1
 Pre-amplifier 0/2/4, 2/4/6
 Preamp to System Cable (specify length in 'm') 1234-X
 Amplifier Subsystems AE2A or AE5A

Sensors include

NIST Calibration Certificate & Warranty

