

FDS102 Low Profile Insight FDS Sensor

Hazardous Area Certified - Class I Div II

Product Overview

The FDS102 Low Profile Insight FDS Sensor is easy to mount and provides a monitoring solution for all fluid film bearings.

The FDS102 Low Profile Insight FDS Sensor is the second model of Voyager Instrument's force detection condition monitoring solutions. It is the ideal solution for monitoring otherwise unprotected fluid film bearings and offers key insight into the operating conditions of your machinery.

The FDS102 is adhesively mounted to bearing housings for simple installation and no downtime for your machine.

For adhesive installation, purchase the FDS102 Installation Kit (which includes two magnetic fixtures and one 3 ml syringe of adhesive.)

Specifications:

- IEPE Powered
- 50 mV/ $\mu\epsilon$
- 0.5Hz-10kHz Frequency Response
- +/- 100 $\mu\epsilon$ Measurement Range
- -22°F to 250°F Temperature Range
- Integral cable with 10-32 UNF Connector

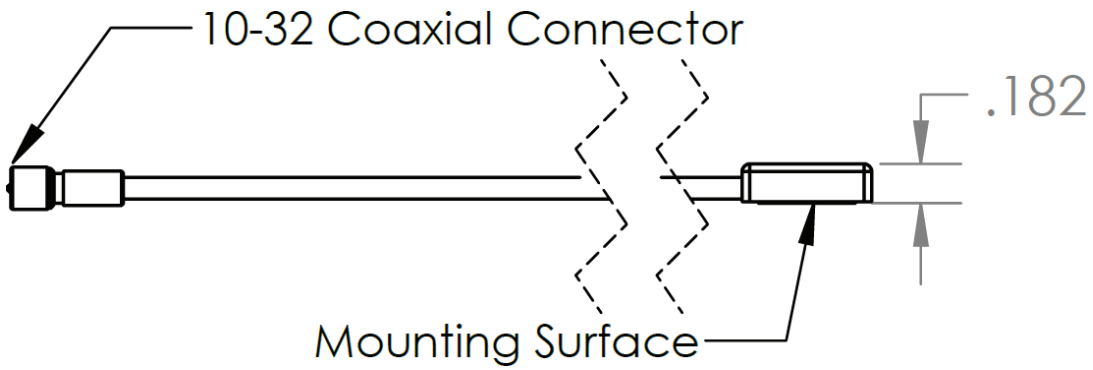
Parameter	Unit	Value
Sensitivity	mV/ $\mu\epsilon$	50 +/- 20%
Measurement Range	$\mu\epsilon$	+/- 100
Frequency Range	Hz	0.5 – 10kHz
Nonlinearity	-	$\leq 4\%$
Transverse Sensitivity	-	$\leq 5\%$
Temperature range	°F	-22-250
	°C	-30-121.1
Excitation Voltage	V	18-30
Constant current excitation	mA	2-20
Output Bias Voltage	V	10-14
External dimensions	mm	10.8x15.2x4.6
	Inch.	0.425x0.600x0.182
Backing Material	-	Titanium
Housing Material	-	316 Stainless Steel
Connector	-	Integral to 10-32
Mounting Method	-	Adhesive



Mechanical:

Size (W x L x H): 0.425" X 0.600" X 0.182"

Side View:



Bottom View:

