

## HD50 SENSOR

**DESCRIPTION AND FEATURES:** The HD50 is a very small sensor built within a Hex 4-40 threaded standoff. The HD50 offers a medium resonant frequency and high sensitivity AE response. Its small size and AE response makes it an ideal candidate for computer hard disk examination and other applications that requiring a small, medium frequency sensor. It has an integral cable with a BNC or SMA connector on the end.



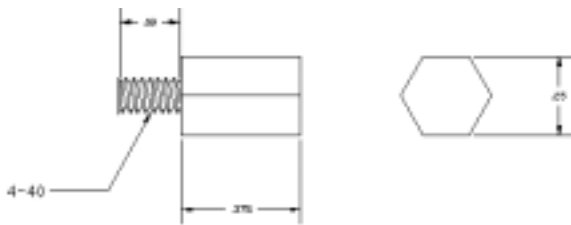
**APPLICATION:** The sensor can be used in any application requiring a small, medium frequency response and threaded AE sensor mounting. It is especially useful where there is little room for sensor mounting.

### SENSOR SPECIFICATIONS:

Dimensions (in)	Weight (g)	Operating T (°C)	Shock limit (g)	Case material	Connector	Cable
0.25" hex dia., 0.375" body height, 0.18" thread height, 4-40 thread	1g sensor (11g with cable & connector)	-65 to 125°	500	Brass or Stainless steel	BNC or SMA On integral cable (Others by request)	Top exit coax, 0.050" dia. 8" long

Peak sensitivity Ref(V/(m/s)/Ref [V/mbar]	Operating frequency range(kHz)	Resonance frequency (kHz)	Direction- ality (dB)	Grounding	Seal type	Comments
N/A / [-70]	350- 880	500	N/A	Case grounded	Epoxy	2 lb-in mounting torque

**OPTIONS:** Cable length and/or connector type can be varied according customer requirements. Contact the factory for preamplifiers (e.g. 2/4/6, IL-40), AE Subsystems (AE2A, AE5A) and AE Systems (e.g. DiSP).



HD50 Sensor dimension drawing (inches)

