

Seismic accelerometer with temperature sensor

735T

SPECIFICATIONS

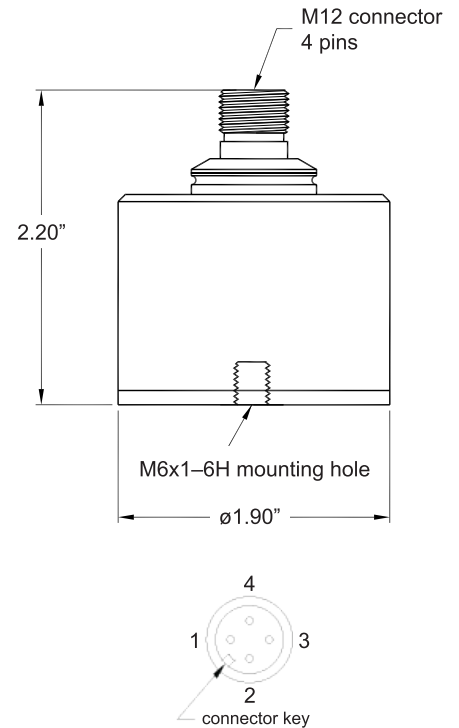
Accelerometer sensitivity, ±10%, 25°C	10 V/g
Acceleration range	0.5 g peak
Amplitude nonlinearity	1%
Frequency response, ±3 dB	0.01 - 350 Hz
Resonance frequency	700 Hz
Transverse sensitivity, max	1% of axial
Temperature response, nominal:	
-10°C	-20%
0°C	-15%
+65°C	+50%
Temperature sensor:	
RTD resistance at 0°C	1,000 Ω, ±1%
Class (per DIN 60751)	Class A
Alpha value (per DIN 60751)	0.003850
Grounding	case isolated
Power requirement:	
Voltage source	15 - 30 VDC
Current regulating diode	1 - 10 mA
Electrical noise, equiv. g:	
Broadband	2.5 Hz to 25 kHz
Spectral	2 Hz
	10 Hz
	100 Hz
	0.5 µg
	20 ng/√Hz
	7.0 ng/√Hz
	3.5 ng/√Hz
Output impedance, max	600 Ω at 1 mA, 100 Ω at 4 mA
Bias output voltage	8 VDC
Grounding	case isolated
Temperature range¹	-10° to +65°C
Vibration limit, min	10 g peak
Shock limit²	100 g
Sealing	hermetic
Weight	380 grams
Case material	316L stainless steel
Mounting	M6x1 tapped hole
Output connector	4 pin, M12
Mating connector³	4 or 5 socket, M12

Notes: ¹ Temperatures in excess of 65°C may permanently damage the accelerometer sensing function.
² Special handling required due to sensitivity; protective container included.
³ Cable shield must be electrically connected to M12 mating connector threaded nut.
Accessories supplied: SF6M-1 mounting stud; calibration data (level 3)



Key features

- Ultra low-frequency
- Ultra low noise electronics
- Manufactured in ISO 9001 facility



Connections	
Function	Connector pin
accelerometer power/signal	1
accelerometer common	2
temperature signal (+)	3
temperature common (-)	4
ground	shell



Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.