

AC135 Series

Low Frequency Accelerometer, Top Exit Connector/Cable, 500 mV/g



Actual Product Size Shown



Product Features

Low Frequency/ Slow Speed Sensor

0,2 - 3000 Hz (12 - 180,000 CPM)

- 500 mV/g Sensitivity, $\pm 10\%$ Sensitivity
- Standard 2 Pin MIL Connection
- ± 10 g, Peak Dynamic Range

AC135-1A

2 Pin Connector

Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



AC135-2C

Integral Cable

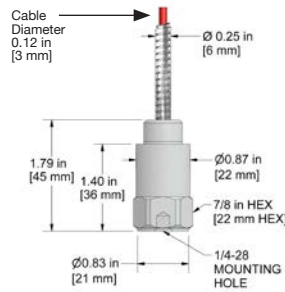
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



AC135-3C

Armored Integral Cable

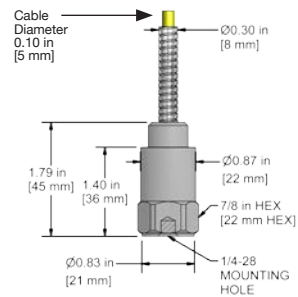
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



AC135-6C

Heavy Duty Armored Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Specifications	Standard	Metric
Part Number	AC135	M/AC135
Sensitivity ($\pm 10\%$)	500 mV/g	
Frequency Response (± 3 dB)	12-180,000 CPM	0,2-3000 Hz
Frequency Response ($\pm 10\%$)	36-90,000 CPM	0,6-1500 Hz
Dynamic Range	± 10 g, peak	
Electrical		
Settling Time	5 Seconds	
Voltage Source	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	1.7 $\mu\text{g}/\sqrt{\text{Hz}}$	
Spectral Noise @ 100 Hz	0.2 $\mu\text{g}/\sqrt{\text{Hz}}$	
Spectral Noise @ 1000 Hz	0.12 $\mu\text{g}/\sqrt{\text{Hz}}$	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 ⁹ ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-58 to 250° F	-50 to 121 °C
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
Submersible Depth (AC135-2C/3C)	200 ft.	60 m
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	3.4 oz	95 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (non-integral)	2 Pin MIL-C-5015	
Resonant Frequency	960,000 CPM	16000 Hz
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
Calibration Certificate	CA10	

Ordering Information

Standard	AC135-1A	AC135-2C	AC135-3C	AC135-6C
	(1/4-28 Stud)	(1/4-28 Stud)	(1/4-28 Stud)	(1/4-28 Stud)
		- / [] - []	- / [] / [] - []	- / [] / [] - []
		(length in feet) (termination)	(maximum armor length 100 ft.) (cable length in feet) (termination)	(maximum armor length 20 ft.) (cable length in feet) (termination)
Metric	M/AC135-1A	M/AC135-2C	M/AC135-3C	M/AC135-6C
	(M6x1 Adapter Stud)	(M6x1 Adapter Stud)	(M6x1 Adapter Stud)	(M6x1 Adapter Stud)
		- / [] - []	- / [] / [] - []	- / [] / [] - []
		(length in feet) (termination)	(maximum armor length 100 ft.) (cable length in feet) (termination)	(maximum armor length 20 ft.) (cable length in feet) (termination)
		[] M - []	[] M / [] M - []	[] M / [] M - []
		(length in meters) (termination)	(maximum armor length 30 m) (cable length in meters) (termination)	(maximum armor length 6 m) (cable length in meters) (termination)

Cable Termination Options:

E



F



Z



19 Waterman Ave, Toronto, Ont. M4B1Y2
Ph#416-445-5500 Fax#416-445-1170
Toll Free: 1-800-465-1600
Email: sales@intertechnology.com
Website: www.intertechnology.com