

AC966 Series

Nonincendive, Intrinsically Safe, IECEx/ATEX and KC Zone 0,1,2,21,22
Approved Accelerometer, Side Exit 2 Pin Connector, 100 mV/g, ±10%



Regulatory Information

20-KA480-126X
Ex ia IIC T3/T4
Operating Temperature Code: T4
Ambient Temperature Range: -40 °C TO 80 °C
Operating Temperature Code: T3
Ambient Temperature Range: 40 °C TO 121 °C
Control Drawing INS10050
Vmax/UI = 28 V Imax/Ii = 120 mA

T147°C: Ta @ -40°C to +121°C
T135°C: Ta @ -40°C to +80°C
Install per drawing INS10210
Refer to product manual
MNX10134

1600 ft (488 m) Maximum Allowable
Integral Cable Length
Approved Cabling: CB102, CB103*, CB111,
CB190*, CB193*, CB206, CB296 (*Approved for
Use in T4 Applications Only)
Requires one IS111-1B Intrinsic Safety Barrier

Sira 15ATEX2152X
Ex ia IIC T3 -T4 Ga
T3: Ta @ -40°C to +121°C
T4: Ta @ -40°C to +80°C
Ex ib IIIC T135°C ... T147°C Db
T147°C: Ta @ -40°C to +121°C
T135°C: Ta @ -40°C to +80°C
Ex ia I Ma
Ta @ -40°C to +121°C
Install per drawing INS10211
Refer to product manual
MNX10135

IECEx SIR 15.0060X
Ex ia IIC T3-T4 Ga
Ex ib IIIC T135°C ... T147°C Db
Ex ia I Ma
T3: Ta @ -40°C to +121°C
T4: Ta @ -40°C to +80°C
Mining Group I: Ta @ -40°C to +121°C

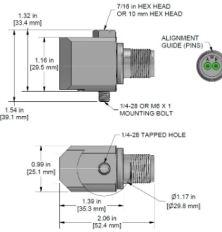
Connector Exit Entity Parameters:
Ui = 28 Vdc, Ii = 120 mA, Pi = 1W, Ci
= 0nF, Li = 0µH

Integral Cable Entity Parameters
Ui = 28 Vdc, Ii = 120 mA, Pi = 1W, Ci
= 80.4nF, Li = 336µH

AC966-1A

2 Pin Connector

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

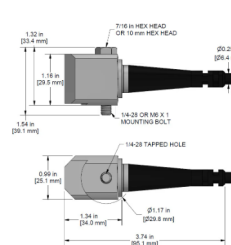


Stock Product

AC966-2C

CB193 Integral Cable

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

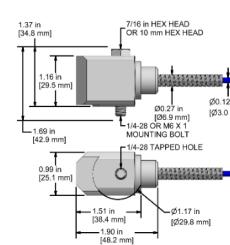


Built To Order

AC966-3C

CB296 Armored Integral Cable

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



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC966	M/AC966	Environmental		
Sensitivity (±10%)		100 mV/g	Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Frequency Response (±3dB)	30-516,000 CPM	0.5-8600 Hz	Maximum Shock Protection		5,000 g, peak
Dynamic Range		± 50 g, peak	Electromagnetic Sensitivity		CE
Transverse Sensitivity		≤5%	Sealing		Welded, Hermetic
Electrical			Submersible Depth	200 ft.	61 m
Settling Time	<3 Seconds		SIL Rating		SIL 2
Voltage Source	18-28 VDC		Physical		
Constant Current Excitation	2-10 mA		Sensing Element		PZT Ceramic
Spectral Noise @ 10 Hz	6.5 µg/√Hz		Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz	2 µg/√Hz		Weight	5.3 oz	150 grams
Spectral Noise @ 1000 Hz	1.8 µg/√Hz		Case Material		316L Stainless Steel
Output Impedance	<100 ohm		Mounting Thread		1/4-28
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)		2 Pin MIL-C-5015
Case Isolation	>10 ⁸ ohm		Resonant Frequency	1,320,000 CPM	22000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate		CA10

Typical Frequency Response

