

LP802 Series



VIBRATION ANALYSIS HARDWARE

Nonincendive, Intrinsically Safe, CSA North America Class 1, Division 1 and IECEx/ATEX Zone 0,1 Approved Loop Power Sensor, 4-20 mA Output Proportional to Vibration in Velocity, Top Exit 2 Pin Connector



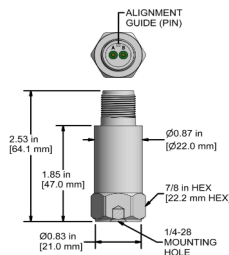
Regulatory Information

CSA 221421	Requires one IS111-1B Intrinsically Safe Barrier
CSA 26CA80263367X	
CL I, DIV 1, GRP A, B, C and D	
CL II, DIV 1, GRP E, F and G; CL III	Sira 15ATEX2152X
Ex ia IIC T3-T4 Ga	IECEx SIR 15.0060X
Ex ib IIIC T135°C...T147°C Db	Ex ia IIC T3/T4 Ga
CL I, ZN 0, AEx ia IIC T3-T4 Ga	Ex ib IIIC T135°C Db
ZN 21, AEx ib IIIC T135°C...T147°C Db	Operating Temp Code: T135°C
T3: Ta = -40°C to +121°C	Ambient Temp Range = -40°C to +80°C
T4: Ta = -40°C to +80°C	
T147°C: Ta = -40°C to +121°C	
T135°C: Ta = -40°C to +80°C	
Install per drawing INS10187	Connector Exit Entity Parameters: Ui = 28 Vdc, li = 120 mA, Pi = 1W, Ci = 0nF, Li = 0µH
Refer to product manual MNX10127	
1600 ft (488 m) Maximum Allowable Integral Cable Length	Integral Cable Entity Parameters Ui = 28 Vdc, li = 120 mA, Pi = 1W, Ci = 80.4nF, Li = 336µH
Approved Cables: CB102, CB103, CB111, CB190, CB193, CB296	

LP802-XXX-1B

2 Pin Connector

Connector Pin	Polarity
A	(+) Loop Power
B	(-) Loop Power Return

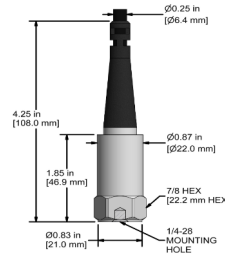


Built To Order

LP802-XXX-2C

CB103 Integral Cable

Conductor	Polarity
Red	(+) Loop Power
Black	(-) Loop Power Return
Shield	Cable Drain Wire

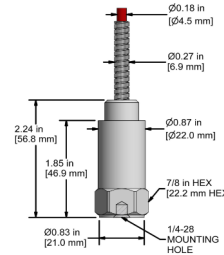


Built To Order

LP802-XXX-3C

Armored Integral Cable

Conductor	Polarity
Red	(+) Loop Power
Black	(-) Loop Power Return
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	LP802	M/ or M8/LP802	Physical		
Tolerance: 4 mA	(± 10%)		Sensing Element	PZT Ceramic	
Tolerance: 20 mA	(± 10%)		Sensing Structure	Shear Mode	
Electrical			Weight	3.7 oz	105 grams
Settling Time	<60 Seconds		Case Material	316L Stainless Steel	
Voltage Source	12-28 VDC		Mounting Thread	1/4-28 Blind Tapped Hole	
Case Isolation	>10 ⁹ ohm		Connector (Non-Integral)	2 Pin MIL-C-5015	
Environmental			Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Operating Temperature Range	-4 to 176 °F	-20 to 80 °C	Mounting Hardware Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
Electromagnetic Sensitivity	CE		Calibration Certificate	Current Output @ 100 Hz	
Sealing	Welded, Hermetic				

Ordering Information

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Stud Type	Sensor Type	Measurement Range	Type	Frequency Range ±3dB	Style	Integral Options	
Blank = 1/4-28 M = M6x1 M8 = M8x1.25	802 = 4-20 mA Velocity Loop Power, Intrinsically Safe 822 = 4-20 mA Velocity Loop Power, Class I Div 2/ Zone 2	0 = 0-0.5 IPS (0-12.7 mm/sec) 1 = 0-1 IPS (0-25.4 mm/sec) 2 = 0-2 IPS (0-50.8 mm/sec) 3 = 0-0.4 IPS (0-10 mm/sec) 4 = 0-0.8 IPS (0-20 mm/sec)	P = Peak R = RMS	1 = 600-60000 CPM (10-1000 Hz) 2 = 180-150000 CPM (3-2500 Hz)	1B = 2 Pin MIL C-5015 2C = Integral Cable 3C = Armor Jacket	Armor Length (Integral) 010 = 10 ft/3 m 020 = 20 ft/6 m 030 = 30 ft/9 m 050 = 50 ft/15 m 100 = 100 ft/30 m	Cable Length (Integral) 010 = 10 ft/3 m 020 = 20 ft/6 m 030 = 30 ft/9 m 050 = 50 ft/15 m 100 = 100 ft/30 m
*Custom Lengths Available Upon Request							