

LPH822 Series

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



Regulatory Information

CSA 221421

CSA 25CA80263368X

CLI, DIV 2, GRP A, B, C and D T3/T4

CLII, DIV 1, GRP E, F and G T135°C

CLIII

Ex ec IIC T* Gc

Ex tc IIIC T135°C Dc

CLI, ZN 2, AEx ec IIC T* Gc

ZN 22, AEx tc IIIB T135°C Dc

*Temperature Class depends on the ambient temperature

T4, T135°C for ambient temperature range of -40°C to +80°C

T3 for ambient temperature range of -40°C to +121°C

Vmax = 28VDC Imax = 10mA

CSACa 24ATEX1004X

IECEx CSA 240015X

Ex ec IIC T* °C Gc

Ex tc IIIC T135 °C Dc

T4, T135°C for ambient range of -40 °C to +80 °C

T3 for ambient range of -40 °C to +121 °C

*Temperature Class depends on the ambient temperature

V = 28VDC I = 10mA

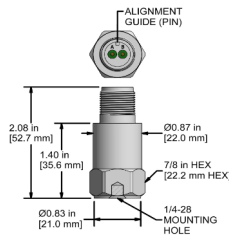
Approved Cabling: CB102, CB103*, CB111, CB190*, CB193*, CB296

(*Approved for Use in T4 Applications Only)

LPH822-XXX-1A

2 Pin Connector

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

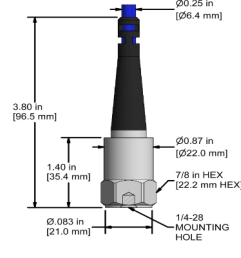


Built To Order

LPH822-XXX-2A

CB190 Integral Cable

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

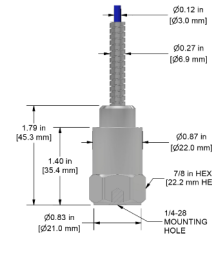


Built To Order

LPH822-XXX-3A

CB296 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	LPH822	M/ or M8/LPH822	Physical		
Tolerance: 4 mA	(± 10%)		Sensing Element	PZT Ceramic	
Tolerance: 20 mA	(± 10%)		Sensing Structure	Shear Mode	
Electrical			Weight	2.9 oz	82 grams
Settling Time	<30 Seconds		Case Material	316L Stainless Steel	
Voltage Source	12 - 28 VDC		Mounting Thread	1/4-28 Blind Tapped Hole	
Case Isolation	>10 ⁸ 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	-40 to 257 °F	-40 to 125 °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				
Submersible Depth	200 ft.	60 m			

Ordering Information

/LPH822 -			-	
Stud Type Blank = ¼-28 M = M6x1 M8 = M8x1.25	Measurement Range 0 = 0-0.4 IPS (0-10 mm/sec) 1 = 0-0.5 IPS (0-12.7 mm/sec) 2 = 0-0.8 IPS (0-20 mm/sec) 3 = 0-1.0 IPS (0-25.4 mm/sec) 4 = 0-2.0 IPS (0-50.8 mm/sec) 6 = 0-5.0 IPS (0-127 mm/sec)	Type P = Peak R = RMS	Frequency Range ±3dB 1 = 600-60000 CPM (10-1000 Hz) 2 = 120-150000 CPM (2-2500 Hz) 3 = 120-60000 CPM (2-1000 Hz) 4 = 120-300000 CPM (2-5000 Hz) 5 = 120-600000 CPM (2-10000 Hz)	Style 1A = 2 Pin MIL C-5015 2A = Integral Cable 3A = Armor Jacket

Integral Options	
Armor Length (Integral)	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	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	