CMCP422AT-M12 Series
Loop Powered 4-20mA Acceleration Sensor, Top Exit M12 Connector

Features:
- Loop Powered 4-20mA Output
- Acceleration RMS or Peak
- 4 Pin M12 Eurofast Connector
- Interfaces Directly to PLC/DCS System
- Class I Division II Approved Standalone
- Class I Division I Approved with Barrier or Isolator
- 10 to 5kHz (600 CPM to 300k CPM)
- -13 to 194°F (-25 to 90°C) Temperature Range
- Sealed to IP68

Typical Applications

Technical Performance
Mounted Base Resonance: 10 kHz Min.
Ranges: See Ordering Information Below
Frequency Response: 10 Hz to 5 kHz ± 5%
ISO 10816
Isolation: Base Isolated with Faraday Cage
Transverse Sensitivity: Less than 5%

Electrical
Output Current: 4-20mA DC Proportional to RMS or Peak Acceleration
Supply Voltage: 15 to 30 VDC
Settling Time: 2 Seconds
Output Impedance: Loop Resistance 600 Ohms Max @ 24VDC
Case Isolation: >10^8 Ohms at 500 Volts

Environmental
Operating Temperature Range: -13 to 194°F (25 to 90°C)
Sealing: IP68
Maximum Shock: 5000 g

Mechanical
Case Material: Stainless Steel
Sensing Element: PZT/Compression Type
Mounting Torque: 5.9 ft. lbs (8Nm)
Weight: 5.2 Oz (150g)
Mounting: 1/4"-28 UNF Mounting Stud (Supplied with Sensor)
Adapters Available, See CMCP237 (Metric) and CMCP238 (Imperial) Series
Mating Connector: 4 Pin M12 Cordset
Electrical Ratings:
U_i=28V; I_i = 115mA; P_i = 0.65W

Hazardous Location Ratings:
Class I, II, III, Division 1, 2, Groups A-G, T6 -40°C to +60°C, IP65
Class 1, Zone 0, AEx, ia, IIC, T6, Ga, -40°C to +60°C
Zone 20, AEx, ia IIC, T80°C, IP65, Da, -40°C to +60°C

Dimensions

Typical Frequency Response

Ordering Information:
CMCP422AT -XX -X -XXX Description
-01 1 g Full Scale
-02 2 g's Full Scale
-05 5 g's Full Scale
-10 10 g's Full Scale
-20 20 g's Full Scale
-R RMS Detection
-P Peak Detection
-C 2 Pin MS 5015 Connector
-M12 M12 Eurofast Connector
-I Integral Braided Armor Cable (5 meters)

Similar Products:
CMCP422AT-XX-X-I
Integral Armored Cable
CMCP422AT-XX-X-C
2 Pin MS 5015 Connector