



## CMCP460VTT Triaxial 4-20 mA Output Velocity Sensor with Temperature



### Features

- Side Exit, Triaxial Velocity Sensor
- Three 4-20 mA Outputs (X, Y and Z)
- 10 mV/°C Temperature Output
- Interfaces Directly to Control Systems (PLC's)
- 248°F (120°C) Max Temperature Range
- ISO Standard Frequency Range (10-1.0 kHz)
- 1 Second Settling Time
- Stainless Steel Case
- 8 Pin M12 Eurofast Connector
- ¼"-28 UNF or M8x1.25 Captive Mounting Bolt
- Sealed to IP68

### Typical Applications

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, HVAC, Spindles, Machine Tooling, Process Equipment and many more.

### Technical Performance

Mounted Base Resonance:	2.5 kHz
Output:	4-20 mA (Per Axis)
Velocity Ranges:	-01 Model: 0-1.00 in/s (0-25.4 mm/s)
	-02 Model: 0-2.00 in/s (0-50.8 mm/s)
Detection:	RMS or Peak
Frequency Range:	10 Hz-1.0 kHz ±5% (600 cpm to 60 kcpm) ISO Standard
Temperature Output:	10 mV/°C
Isolation:	Base Isolated
Measurement Range:	±50 g
Transverse Sensitivity:	Less than 5%

### Electrical

Current Output:	4-20 mA DC Proportional to Velocity Range
Supply Voltage:	15-30 VDC (for 4-20 mA)
Settling Time:	1 Second
Output Impedance:	600 Ohm Max
Case Isolation:	>10 <sup>8</sup> Ohm at 500 Volt

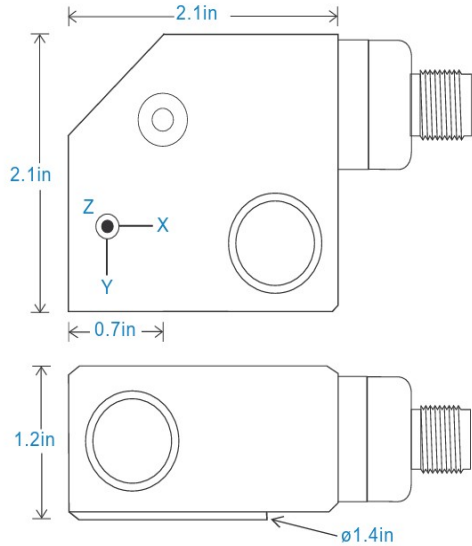
### Environmental

Operating Temperature Range:	-67 to 248°F (-55 to 120°C)
Sealing:	IP68
Maximum Shock:	5000 g
Approvals:	CE Approved

### Mechanical

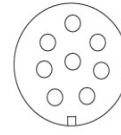
Case Material:	Stainless Steel
Sensing Element:	PZT/Shear
Mounting Torque:	5.9ft. lbs (8 Nm)
Weight:	18.7 Oz (530 gram)
Mounting:	1/4"-28 UNF or M8x1.25 Captive Mounting Bolt
Mating Connector:	8 Pin M12

## Dimensions



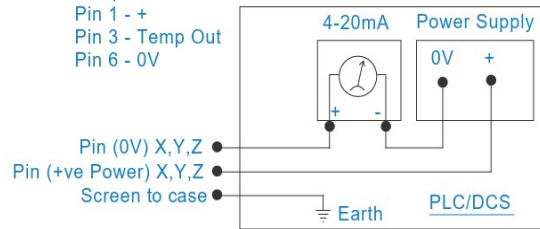
### Connection Details

Pin 1 - White - X Power  
 Pin 2 - Brown - X 0V  
 Pin 3 - Green - Temp Out  
 Pin 4 - Yellow - Y Power  
 Pin 5 - Black - Y 0V  
 Pin 6 - Purple - Temp 0V  
 Pin 7 - Blue - Z Power  
 Pin 8 - Red - Z 0V

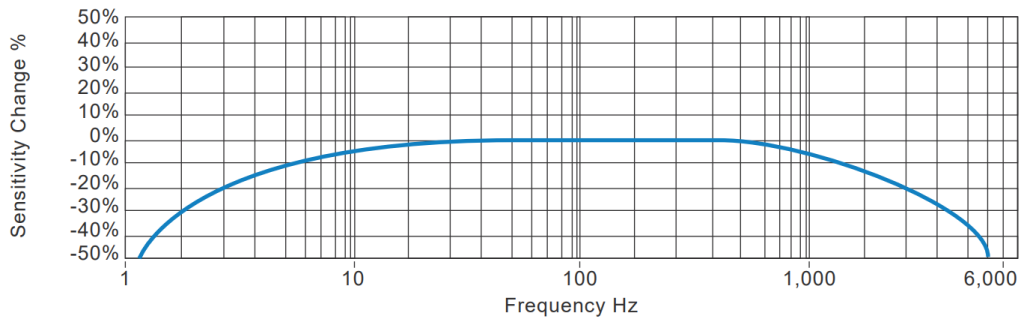


### Temp Sensor

Pin 1 - +  
 Pin 3 - Temp Out  
 Pin 6 - 0V



## Typical Frequency Response



## Ordering Information

CMCP460VTT -XX -XX  
 -01  
 -02

-R  
 -P

-M8

4-20 mA Output Triaxial Velocity with Temperature Sensor  
 Velocity Range 0-1.00 in/s (0-25.4 mm/s)  
 Velocity Range 0-2.00 in/s (0-50.8 mm/s)  
 RMS-Detection  
 Peak-Detection  
 ¼-28 Mounting Bolt  
 M8x1.25 Mounting Bolt

## Example Part Id's

CMCP460TT-01-R

CMCP460TT-02-P-M8

4-20 mA Output Triaxial Velocity with Temperature Sensor,  
 0-1.00 in/s (0-25.4 mm/s) Range, RMS-Detection, ¼-28 Mounting Bolt  
 4-20 mA Output Triaxial Velocity with Temperature Sensor,  
 0-2.00 in/s (0-50.8 mm/s) Range, Peak-Detection, M8x1.25 Bolt

## Recommended Cable Assemblies

M12 Cable Assembly, 8 Socket A-Coded, Black TPU Jacketed Cable (Rated to 120°C)

CMCP608M-05

CMCP608M-10

CMCP608M-20

Straight Exit Connector, 5 m (16') Cable Length  
 Straight Exit Connector, 10 m (32') Cable Length  
 Straight Exit Connector, 20 m (64') Cable Length