Condition Monitoring Custom Products

CMCP423VTA Series
Compact Vibration Switch

Features:

- Low Cost, Compact Vibration Switch
- 4-20mA and Relay Output
- Vibration Velocity RMS
- 1.0 or 2.0 Ranges (25.4 or 50.8mm/sec)
- 10 to 1kHz Frequency Response
- Adjustable Alarm Level (0-100% Full Scale)
- Adjustable Time Delay (0-60 Seconds)
- Locking Adjustments
- 4 Pin Eurofast Connector
- IP67 Rated

Typical Applications:
Building Services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical

Technical Performance

Velocity Ranges	-01 Model: 0-1.0 In/Sec RMS (0-25.4mm/Sec.)
	-02 Model: 0-2.0 In/Sec RMS (0-50.8mm/Sec.)
Frequency Response:	10 Hz to 1 kHz ± 5% - ISO 10816
Isolation:	Base Isolated
Transverse Sensitivity:	Less than 5%

Electrical

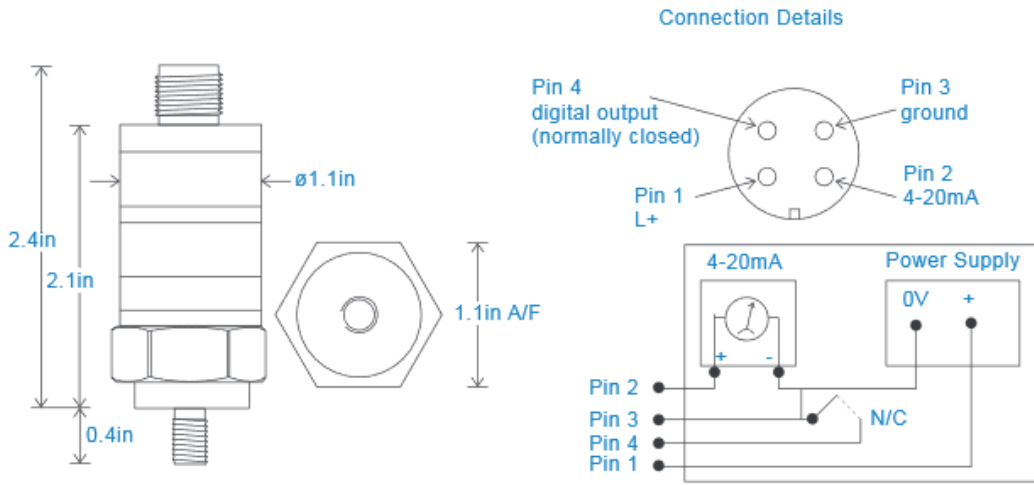|	
Output Current:	4-20mA DC Proportional to Range in RMS Velocity
Supply Voltage:	15 to 32 VDC
Switching Output:	Normally Energized 24VDC Output (Opens on Alarm)
Output Impedance:	Loop Resistance 600 Ohms Max @ 24VDC
Sensor OK Indication:	Green LED
Alarm Indication:	Yellow LED
Current Consumption:	50mA

Environmental

Operating Temperature Range:	-25 to 80^0 C (-13 to 176^0 F)
Sealing:	IP67
Maximum Shock:	100 g
EMC:	EN61326-1:2013
Reverse Polarity:	Protected
MTBF:	510 Years

Mechanical

Case Material:	Stainless Steel 316L / Plastic
Mounting Torque:	11.1 Ft-lbs
Weight:	4.1 Oz (116g)
Mounting:	M8x1.25 and Optional ¼"-28 UNF Thread Adapter
Mating Connector:	4 Pin Eurostyle

Dimensions and Connection Details:

Connection Details

Pin 4 digital output (normally closed)
Pin 3 ground
Pin 1 L+
Pin 2 4-20mA

4-20mA
Power Supply
0V +

Pin 2
Pin 3   N/C
Pin 4
Pin 1

ø1.1in
2.4in
2.1in
1.1in A/F
0.4in

Sensor Ordering Information:

CMCP423VTA	-XX	Description
	-01	1.00 In/Sec Full Scale (25.4mm/Sec)
	-02	2.00 In/Sec Full Scale (50.8mm/Sec)

Cable Ordering Information:

CMCP605M	-XX	-XXX	Description
	-05		5 Meter Cable Assembly
	-10		10 Meter Cable Assembly
	-20		20 Meter Cable Assembly
		-01	Top Exit Cable
		-02	Side Exit Cable