

Model 6420V-IS

Loop Powered 4-20 MA Non Incentive Velocity for Class 1 Division 2 Groups A, B, C, D Output Sensor



DESCRIPTION AND FEATURES

- Output 4-20 mA
- IP-67
- Welded Hermetic Seal
- 2-Pin MIL Style Connector
- 3 Ranges - 0.5, 1, & 2 in/sec Full-Scale
- Hazardous Area FM Certification

OUTLINE DRAWING NOTATIONS

PIN A Loop Positive (+) Function

PIN B Loop Negative (-) Function

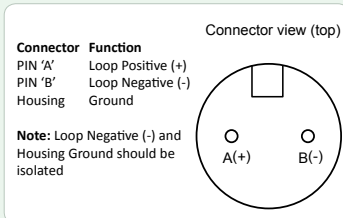
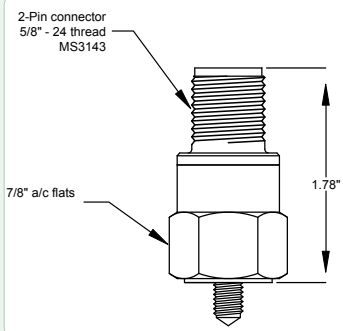
Housing Ground

Loop Negative (-) and Housing Ground should be isolated.

HAZARDOUS AREA RATINGS

NI/ I/ 2/ ABCD/ T4 Ta = -40°C to +85°C; IP 67

NI/ II, III/ FG/ T4 Ta = -40°C to +85°C; IP 67



OPERATING SPECIFICATIONS

Dynamic

Current Output..... 4-20 mA +/- 5%*
 Frequency Range ± 10% 10 Hz - 1000 Hz
 Frequency Range ± 3 dB 6 Hz - 2500 Hz
 Turn-On Time..... ≤ 60 Seconds
 Transverse Sensitivity (nominal) 5%
 Amplitude Linearity ≤ 2%

Electrical

Max Load Resistance 500 Ω
 Grounding..... Isolated
 Power Requirements 18-30 VDC

Environmental

Temperature Range -40 to 185°F / -40 to 85°C
 Base Strain (Nominal) 0.001 g peak/μstrain
 Shock Limit 2,000 g Peak

Physical

Dimensions..... 1.78" h x .875" (Across Flats)
 Weight 75 grams
 Case Material..... Type 316L Stainless Steel
 Design..... Piezoelectric/Compression
 Seal..... Welded/Hermetic
 Mounting..... 1/4-28 Stud
 Mounting Torque..... 25 in-lb (2.8 N-m)

* An output of 4mA indicates a level of 0 in/sec or no vibration present. A full-scale reading of 20mA indicates that the maximum range (RMS) of vibration is present.

ORDERING INFORMATION AND ACCESSORIES

Model 6420V-IS-05 (0-.5 IPS RMS 12.7 mm/sec)

Mfr. Part No. 6420V-IS-05-5015

Model 6420V-IS-10 (0-1.0 IPS RMS 25.4 mm/sec)

Mfr. Part No. 6420V-IS-10-5015

Model 6420V-IS-20 (0-2.0 IPS RMS 50.8 mm/sec)

Mfr. Part No. 6420V-IS-20-5015

Cable, 2-Pin MIL/BNC 6'/15' Splash Proof RG58 9354092-S

Cable, 2-Pin MIL/Pigtail 6' high temperature 9354084

Cable, 2-Pin MIL/BNC 6' high temperature 9356381

Magnetic holder, 16 lb (for curved/flat surfaces)..... 9356809

Sensors include

Calibrated Current Output @ 61.5 Hz

1/4-28 Mounting Stud

1-Year Warranty



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