



LT431 Series

Loop Powered Velocity Sensor (RMS/PEAK)

Features

4-20mA Output
Hermetical Sealed
Reverse Polarity Protection
Fast Response Time
ESD Protection
Surge Protection
EMI/RFI Proof-Internally Shielded



SPECIFICATIONS

Output: 4-20mA ($\pm 5\%$ @ Zero and $\pm 10\%$ @ Span)

Frequency Response: See Table 1

Repeatability: $\pm 1\%$

Cross Axis Sensitivity: $\pm 5\%$

Power Supply: 12 VDC to 30 VDC (Loop Powered)

Maximum Loop Resistance 650 Ohms @ 24V

Turn-on Time: <15 Seconds

Operating Temperature: -40°C to 100°C

Reverse Polarity Protection: Yes

EMI Hardening: Yes

Surge Protection: Yes

Case Isolation: 100 Mohms @ 1000 V

Shock Survival: 5000 g

Case Material: SS316-L

Connection: 2 Pin, MIL C-5015

Mounting Hole: 1/4 -28

Weight: 100gm

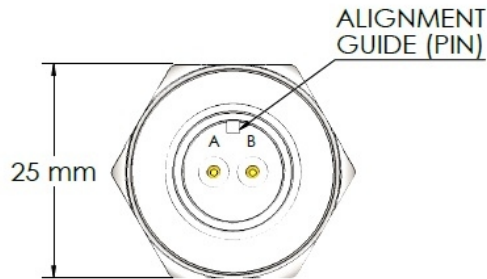
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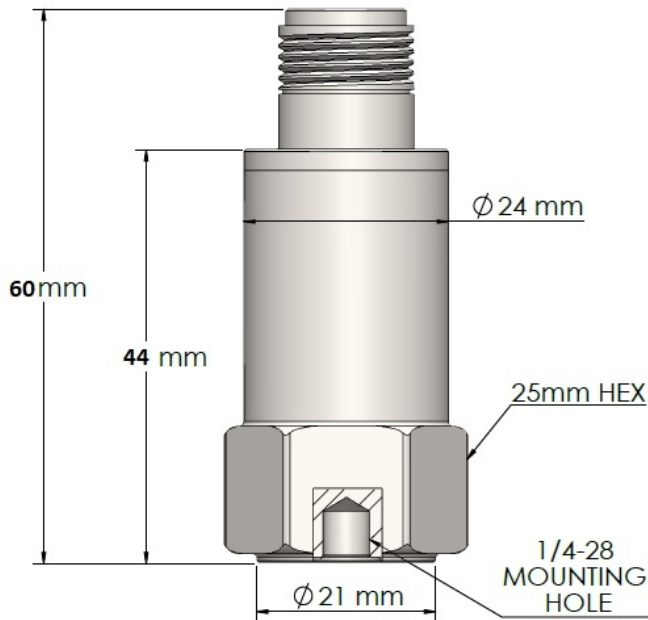


LT431-1A

2 Pin Connector

A: Loop Current Positive (+)

B: Loop Current Negative (-)



Typical Connection Diagram:

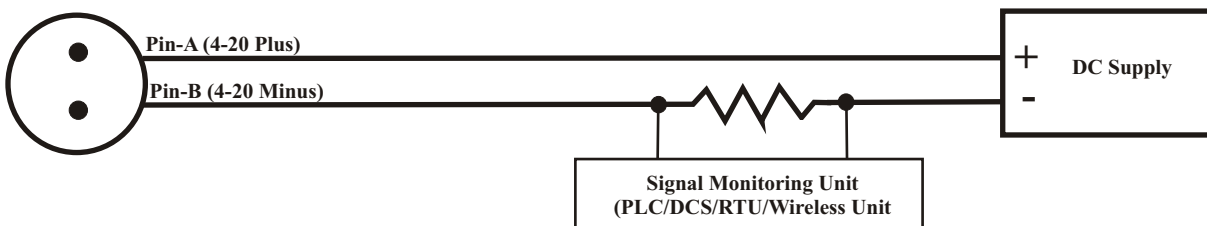


Table-1: LT431 Model Selection
LT431-abc-dA

<i>a (Measurement Range)</i>	<i>b (Measurement Type)</i>	<i>c (Frequency Range)</i>	<i>d (Style)</i>
1 :0-10 mm/S 2: 0-12.5 mm/S 3: 0-20 mm/S 4: 0-25 mm/S 5. 0-50 mm/S 6. 0-15 mm/S 7. Customized	R: RMS P: PEAK	1: 10-1000 Hz (± 3 db) 2: 2-1000 Hz (± 3 db) 3: 2-2500 Hz (± 3 db) 10-1000 Hz (± 10%) 4:1-5000 Hz (± 3 db) 10-1000 Hz (± 10%)	1: 2 Pin MIL 2: Armor Jacket