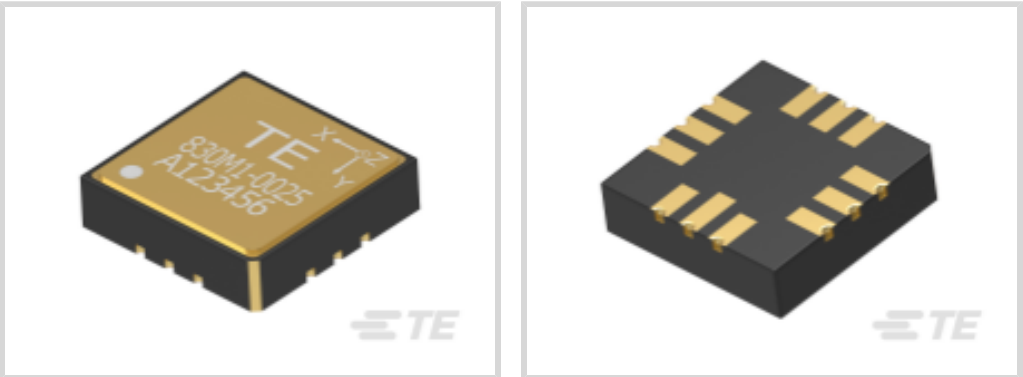




Sensors > Vibration Sensors > Model 830M1 Triaxial SMT Accelerometers



Accelerometer Type: **3-Wire Voltage**

Vibration Sensor Product Type: **Piezoelectric Accelerometer**

Number of Sensing Axes: **Triaxial**

Frequency Response: **2 to 15000 Hz**

Full Scale Output Voltage: **±1.25 VDC**

[All Model 830M1 Triaxial SMT Accelerometers \(14\)](#)

Features

Product Type Features

Sensor Package	Embedded
Accelerometer Type	3-Wire Voltage
Vibration Sensor Product Type	Piezoelectric Accelerometer

Electrical Characteristics

Excitation Voltage Range	2.8 – 5.5 VDC
Full Scale Output Voltage	±1.25 VDC

Signal Characteristics

Frequency Response	2 to 15000 Hz
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Body Features

Product Weight	1 g[.12 oz]
Primary Product Material	Ceramic
Number of Sensing Axes	Triaxial

Mechanical Attachment

Sensor Mount Type	Solder
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Usage Conditions

Operating Temperature Range	-40 – 125 °C[-40 – 257 °F]
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Operation/Application

Output Current Type	AC
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Industry Standards

IP Rating	IP68
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Other

Sensitivity Range	25 mV/g
Overall Acceleration Range (±)	50 g
Non-Linearity (FSO)	±2 %
Acceleration Range (±)	50 g
Sensitivity	25 mV/g

Product Compliance

For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant with Exemptions
EU ELV Directive 2000/53/EC	Not Yet Reviewed
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量超出标准 Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) SVHC > Threshold: Pb (21.7% in Component Part) Article Safe Usage Statements: Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.
Halogen Content	Not Yet Reviewed for halogen content
Solder Process Capability	Not reviewed for solder process capability

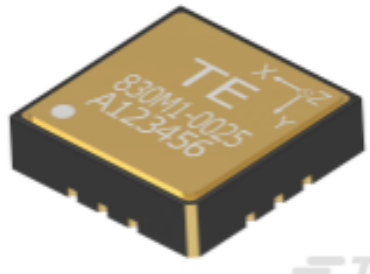
Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulations, TE’s information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) ‘Guidance on requirements for substances in articles’(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of ‘complex object’, the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling



based on the new ECHA “Guidance on requirements for substances in articles” (June 2017, version 4.0) and will be updating its statements accordingly.

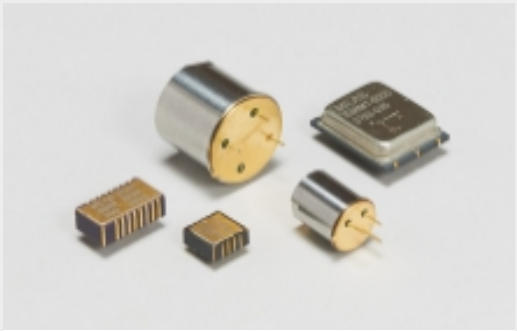
Compatible Parts



TE Part # CAT-EAC0023

Model 830M1 Triaxial SMT Accelerometers

Also in the Series | MEAS 830



Piezoelectric Accelerometers(14)



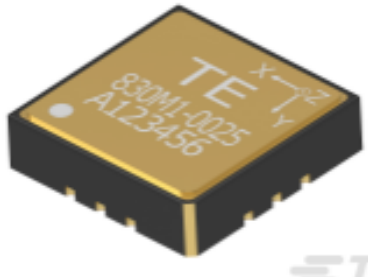
Vibration Sensors(14)

Customers Also Bought



TE Part #1005940-1

LDTC - Vertical



TE Part #20011424-00

830M1-0100 Triaxial 100g Tape Reel 150pc



TE Part #CAT-FSS0010

3/8 BSP MALE WATER FLOW SWITCH



TE Part #11026275-00

DT1-028K N/TH N/HOLE



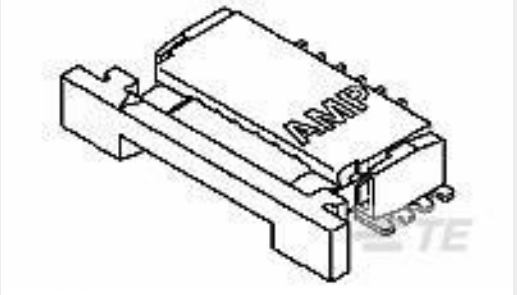
TE Part #CAT-FSS0012

Fuel/Oil Flow Switch, Male, 3/8 BSP



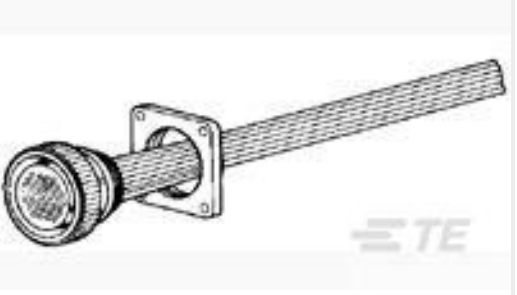
TE Part #34080

PIDG SPD 22-16 COMM 22-18MIL 6



TE Part #84952-9

1MM FPC HORZ.BTTM CONT.ASS.9P



TE Part #207299-2

FLANGE PLUG MOUNT CPC



Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_20011423-00_B.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_20011423-00_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_20011423-00_B.3d_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

830M1_Triaxial_Accelerometer

English