CTC

CONNECTION TECHNOLOGY CENTER, INC.

SHORT FORM CATALOG | Q4 2026

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Scan here to view the digital version of our Short Form Catalog

ABOUT CTC

Who We Are

At CTC, we are a family-owned and operated business passionate about providing the highest quality products backed by excellent customer service. We are the industry leader in quick delivery for stock and built-to-order products, and all CTC products are proudly made or assembled in the U.S.A.

What We Do

CTC is the world leader in the design and manufacture of vibration analysis hardware. We serve the industrial condition monitoring market with a comprehensive portfolio of wired and wireless industrial accelerometers, piezo velocity transducers, 4-20 mA vibration sensors, and proximity probes as well as all related mounting hardware, cabling, connectors, junction boxes, and more.

Our products enable efficient vibration monitoring for predictive maintenance in a wide variety of industries. Industries served include cement, mining, petrochemical, food and beverage, auto, steel, wind, paper, power generation, water and wastewater treatment, pharmaceutical, hospitals, bottling, and more.

We also serve the research and development market with our top-of-the-line series of test and measurement accelerometers and related accessories designed for use in laboratory environments. Our mission is to offer the most extensive collection of accelerometers and vibration analysis hardware products, as well as the tools for installation. Our products are compatible with multiple third-party data collectors and online monitoring systems.

Product Offerings

At CTC, we offer comprehensive product lines to meet your vibration monitoring needs. Our products reflect the input of customers and distributors from around the world and are designed and tested to meet the real-world demands of plant environments. We believe our products are the highest quality on the market, which is why we back each product line with industry-leading warranties.

Benefits of Monitoring with CTC Hardware

- Improve safety
- Measure inaccessible areas
- Limit unwanted downtime
- Affordable prices
- Industry leading warranties

CONNECT LINE WIRELESS SOLUTIONS

CTC Connect is a line of Bluetooth® wireless condition monitoring solutions for dynamic vibration signal or overall vibration signal with digital data transmission. The CTC Connect ecosystem offers you the highest quality wireless hardware on the market and is designed for integration with 3rd-party vibration analysis software.

ConnectSens™ Wireless Sensors

ConnectSens wireless sensors feature user-replaceable 3.6 V Lithium Thionyl Chloride primary battery and offer up to 3 years of unattended operation.

WS100
Triaxial overall vibration signal with temperature output

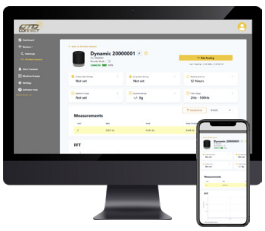
WS200
Single axis dynamic vibration signal capture with temperature output

WS300
Triaxial dynamic vibration signal capture with temperature output

ACCESS2000 Long-Range Wireless Gateway

The ACCESS2000 is a long-range wireless gateway and network controller used for connecting CTC Connect compatible products to the data analysis software of your choice via Wi-Fi or Ethernet. Choose from ACCESS2000-LITE with 4 GB onboard memory (optimized for software integrators) or ACCESS2000 with 64 GB onboard memory. The ACCESS2000 comes preloaded with the ConnectView Web App and receives data from CTC Connect devices and facilitates bi-directional transfer of data. For your convenience, the ACCESS2000 Series supports WebSocket, MQTT IoT, and Modbus protocols. The ABS plastic, IP66-rated enclosure also offers a wide temperature range of -40 °C to 65 °C (-40 °F to 149 °F) to provide reliability in demanding environments.

ConnectView™ Web App



The complimentary ConnectView Web App is a user-friendly platform that comes preloaded on Connect Wireless Gateways. The web app offers basic vibration tools and device management functionality like sensor configuration (WS200 and WS300 only), battery level information, and more. The web app is designed for use with 3rd-party vibration analysis software for advanced data analysis that meets your specific needs.

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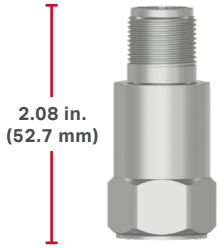
MULTIPURPOSE ACCELEROMETER STYLES

CTC offers a complete line of industrial accelerometers. Our ruggedized industrial accelerometers are available in single axis, biaxial, and triaxial designs. Many configurations allow for either top or side exit options. Side exit configurations are suitable for installations in areas where height is an issue. CTC's industrial accelerometers support a diverse set of applications with sensitivity values ranging from 10 mV/g to 1000 mV/g. Dual output configurations allow for vibration and temperature outputs.

Top Exit Multipurpose Accelerometer Size Options

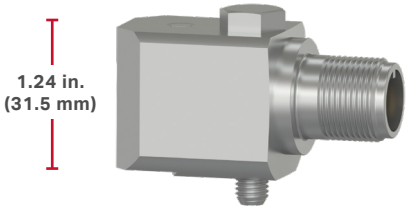


Standard Size

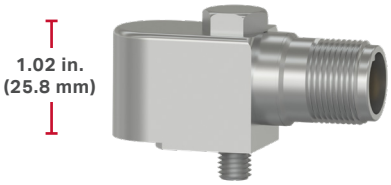
Compact Size

Mini Size

Side Exit Multipurpose Accelerometer Size Options



Standard Size

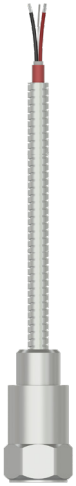


Compact Size

Mini Size

Multipurpose Accelerometer Integral Cable Options

Standard Polyurethane Jacketed Cable



Armor Jacketed FEP Cable

FEP Jacketed Cable

Heavy Duty Armored Jacketed FEP Cable

Low Smoke Zero Halogen Cable

Ultrasound Sensors

Dynamic IEPE vibration and ultrasound accelerometers with high amplitude resonance peak for stress wave measurements.

UEB332 and UEA332
100 mV/g,
±10% sensitivity tolerance,
resonant frequency:
42 kHz ±2 kHz

UEB334 and UEA334
Low cost, 100 mV/g,
±15% sensitivity tolerance,
resonant frequency:
42 kHz ±2 kHz

UEA360 and UEA361
High frequency, low cost, low profile
with integrated rotating locking nut,
100 mV/g,
±10% or ±15% sensitivity tolerance

High Temperature Resistant Accelerometers

AC207 and AC208
100 mV/g,
±10% sensitivity tolerance,
max temp: 325 °F (162 °C)

TXEA331-HT
Premium, 100 mV/g,
±5% sensitivity tolerance,
triaxial sensor,
max temp: 325 °F (162 °C)

TR207-M12A and TR208-M12A
100 mV/g,
±10% sensitivity tolerance,
RTD sensors,
max temp: 325 °F (162 °C)

Dual Output Temperature and Acceleration Sensors

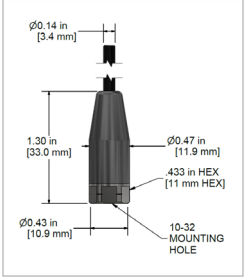
TA202
100 mV/g, 10 mV/°C,
±10% sensitivity tolerance,
temp range:
-40 to 250 °F
(-40 to 121 °C)

TA204
100 mV/g, 10 mV/°C,
±10% sensitivity tolerance,
temp range:
-40 to 250 °F
(-40 to 121 °C)

TR102-M12A
100 mV/g,
±10% sensitivity tolerance,
PT100 RTD,
temp range:
-40 to 250 °F
(-40 to 121 °C)

TR104-M12A
100 mV/g,
±10% sensitivity tolerance,
PT100 RTD,
temp range:
-40 to 250 °F
(-40 to 121 °C)

Cost-Effective Molded Accelerometers



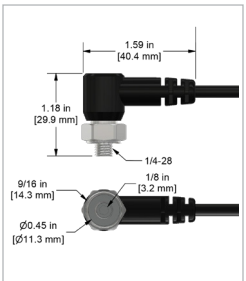
These lightweight, miniature sensors are ideal for applications with limited clearance, limited mounting surface space, or submersible applications. The minimal form factor and excellent frequency response allow this sensor to be used in a wide variety of applications.

MCB211
High Frequency,
10 mV/g,
±10% sensitivity tolerance

MEB210
100 mV/g,
±10% sensitivity tolerance

MEB211
High Frequency,
100 mV/g,
±10% sensitivity tolerance

Low-Profile Molded Accelerometers



CTC's innovative solution for space-constrained applications requiring permanent mounting, our low-profile molded accelerometers feature an integrated rotating mounting base for easy sensor positioning.

MEB360
Premium,
100 mV/g,
±5% sensitivity tolerance

MEB361
Low cost,
100 mV/g,
±15% sensitivity tolerance

MCB360
Premium,
10 mV/g,
±5% sensitivity tolerance

MCB361
Low cost,
10 mV/g,
±15% sensitivity tolerance

HAZARDOUS-RATED ACCELEROMETERS

CTC offers a wide array of single-axis, biaxial, dual output, and triaxial accelerometers in a variety of sizes and connector styles. Designed to withstand harsh environments and prevent arcing and sparking, we offer sensors with the following approvals:

ANZEx

ANZEx Zone 0, 1

KC Zone 0, 1

ATEX Zone 0, 1

ATEX Zone 2

IECEx

IECEx Zone 0, 1

IECEx Zone 2

C US

CSA Class I Div 1, Class II Div 1, Class III

CSA Class I Div 2, Class II Div 1, Class III

Sensor Type Options

- Single axis accelerometers
- Biaxial accelerometers
- Triaxial accelerometers
- Dual output sensors (acceleration + temperature)
- Loop power sensors
- Piezo velocity sensors

Connection Options

- Standard MIL style connector
- Mini-MIL style connector
- Molded integral cable
- Armor jacketed integral cable

Sensor Size Options

- Standard top exit
- Standard side exit
- Miniature top exit
- Miniature side exit

Dual Output Triaxial Accelerometers

TXEA331-TA
Premium,
acceleration and
temperature output,
100 mV/g, 10 mV/°C,
±5% sensitivity tolerance

TXEA331-VT
Premium,
piezo velocity and
temperature output,
100 mV/in/sec, 10 mV/°C,
±5% sensitivity tolerance

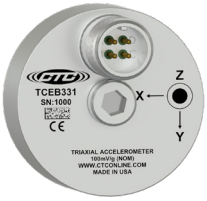
TXFA331-TA
Premium,
acceleration and
temperature output,
500 mV/g, 10 mV/°C,
±5% sensitivity tolerance

TXFA331-VT
Premium,
piezo velocity and
temperature output,
500 mV/in/sec, 10 mV/°C,
±5% sensitivity tolerance

Other Popular Triaxial Accelerometers

AC115
Low cost,
100 mV/g,
±15% sensitivity tolerance

TREA330
Premium,
miniature size,
100 mV/g,
±5% sensitivity tolerance



TCEB331
Premium, miniature size,
circular shape,
100 mV/g,
±5% sensitivity tolerance

TXFA331
Premium,
low frequency,
500 mV/g,
±5% sensitivity tolerance

Popular Biaxial Accelerometers

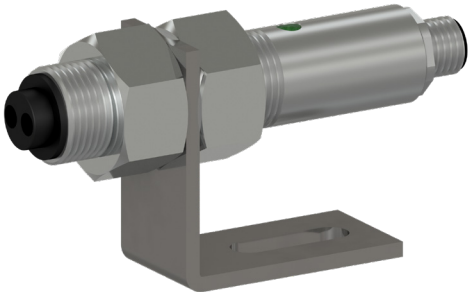
AC119
Low cost,
X and Z axes,
100 mV/g,
±15% sensitivity tolerance

AC979
Nonincendive,
intrinsically safe,
X and Z axes,
100 mV/g,
±10% sensitivity tolerance

Shaft Speed Sensors

CTC offers the rugged and reliable LS100-M12A optical laser shaft speed sensor, designed to withstand harsh industrial environments. With an operating range of up to 25 ft. (7.6 m), the LS100-M12A is ideal for applications where close proximity isn't convenient or safe.

While optical speed sensors require atmospheres that are clean and free of mist, steam, dirt, oil, and other contaminants in order to function properly, there are times when contamination can occur accidentally. With the LS100-M12A, just clean off the laser and detector windows and your sensor is up and running again.



LS100-M12A
Optical laser sensor with visible red laser
and green LED on-target indicator light,
4 pin M12 connector,
speed range: 1-250,000 RPM

M4T
5 socket M12,
polycarbonate molded connector,
for use with LS100-M12A,
permanent mount

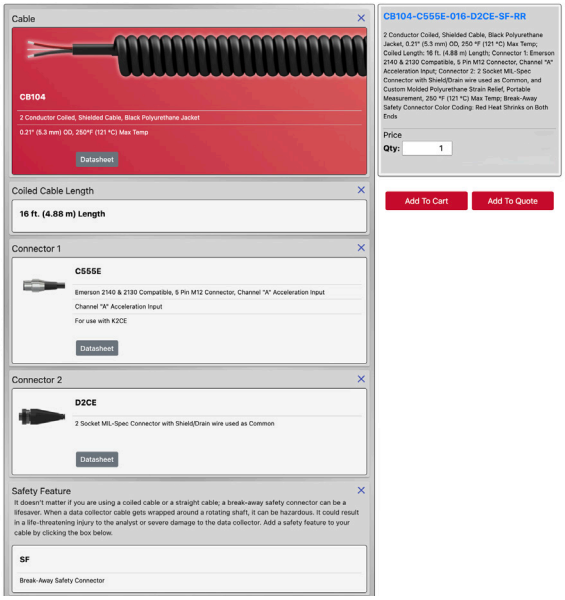
Inductive Proximity Sensors

CTC offers the IN100 inductive proximity sensor for shaft rotational speed measurements. This rugged, 3-wire probe style inductive sensor can be used up to 0.15 in. (4 mm) from a 0.5 in. (12 mm) metallic target, such as a bolt head or shaft locking key. LED on-target indicator light helps ensure accurate and reliable data collection.

IN100
Inductive proximity sensors
for rotating shaft speed measurements,
maximum speed: 24,000 RPM

CABLES

CTC offers a variety of the industry's most durable and reliable cable options for all applications and environmental criteria. Our proprietary Custom Cable Wizard application allows you to quickly and easily build cable assemblies to your exact specifications. The built-in logic takes the guesswork out of building your cable by preventing you from making incorrect and incompatible selections.



Jacket Options

- Fluorinated Ethylene Propylene (FEP)
- Polyurethane
- Lightweight Polyurethane
- PVC
- Thermoplastic Elastomer (TPE)
- Low Smoke Zero Halogen

Conductor Options

- 2 conductor
- 3 conductor
- 4 conductor
- 6 conductor

Armor Options

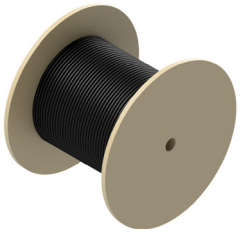
- Stainless steel braided sheathing
- Stainless steel armor
- Hydraulic hose armor

Hazardous Zone Options

- Class 1, Division 2 approved

Low Cost Cable Reels

- Our most popular cables are available in bulk 1,000 ft. reels



CONNECTORS

CTC offers a variety of standard and specialty connectors for every possible application. CTC sensor connectors support temperatures ranging from -58 to 325 °F (-58 to 162 °C) and IP (ingress protection) ranging from IP66 to IP69.

A Series: MIL Style (C-5015) Compatible Connectors

Connector Options

- Straight or right angle connectors
- Hydraulic hose sleeve available
- 2 and 3 live socket configurations available

Material Options

- Polycarbonate
- Polyurethane
- Nylon
- PPS

J Series: Mini-MIL Style Connectors

Connector Options

- Straight connector
- Strain relief available
- Grounded backshell
- 2 and 4 live socket configurations available

Material Options

- Polycarbonate
- Polyurethane
- PPS
- Nylon
- Viton™

K Series: MIL Style (C-5015) Compatible Connectors

Connector Options

- Straight connector
- Strain relief
- Grounded backshell
- 2 and 3 live socket configurations available

Material Options

- Polyurethane

M Series: M12 Molded Connectors

Connector Options

- Straight connector
- Strain relief available
- 2, 3, 4 and 5 live socket configurations available

Material Options

- Polycarbonate
- Polyurethane
- PPS
- Nylon

V Series: Viton™ Protective Boot Connectors

Connector Options

- Straight connector
- 2, 3, and 4 live socket configurations available

Material Options

- Viton™ seal with nylon insert
- Viton™ seal with PPS insert

DATA COLLECTOR CORDSETS

CTC offers a variety of OEM replacement data collector cables and portable cable options for all major vibration analyzer manufacturers. Data collector cables are available in both coiled and straight cable options. Replacement cable assemblies and adapters are available for every major data collector, including:
ACOEM, ADASH Ltd., AES Relability, Azima / Symphony Industrial AI, BETAVIB, Bently Nevada / Baker Hughes / Commtest, CEMB, Emerson / CSI, Entek / Rockwell, iDear, Pruftechnik, SDT, SEMAPI, SKF, and SPM

Popular Data Collector Connectors

Emerson / CSI
C555
Channel A acceleration input to Emerson 2130 and 2140 data collectors

ACOEM
C494
Single channel acceleration input for ACOEM MVP and Falcon data collectors

Bently Nevada / Baker Hughes / Commtest
C416
Triaxial acceleration input (X, Y and Z) for VB Series data collectors

Entek / Rockwell
C22
Single channel acceleration input for Entek / IRD dataPAC data collectors

Pruftechnik
C618
Single channel IEPE acceleration input for VibXpert II data collectors

SKF / Azima / Symphony Industrial AI
C66
Single channel acceleration input for SKF CMXA Series, dBx CMVA90, and Azima DLI / DCA data collectors

Emerson / CSI
C585
Single channel voltage input for Emerson 2140 data collectors

Pruftechnik
C617
7 pin LEMO® connector for current line drive sensors, for VibXpert II data collectors

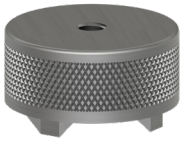
Bently Nevada / Baker Hughes / Commtest
C641
Dual keyway 4 pin LEMO® connector, Triaxial acceleration input (X, Y and Z), for Scout data collectors

EMERSON / CSI EQUIVALENT AND COMPATIBLE HARDWARE

CTC is proud to offer a wide selection of the industry's highest quality vibration analysis hardware that is compatible with Emerson / CSI's broad range of data collectors.

Available Product Types

Accelerometers
Equivalent and compatible offerings



Mounting Hardware
Compatible offerings

Cable Adapters
Equivalent and compatible offerings

Data Collector Connectors
Compatible offerings

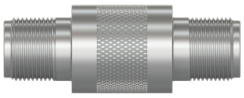
General Purpose Adapters
Compatible offerings

Cable Assemblies
Equivalent offerings

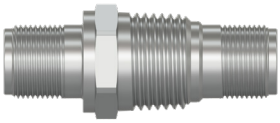
VibeNavigator™
Portable data collection extension pole for A0643TX

Scan here to view the complete Emerson / CSI Equivalent and Compatible Hardware Catalog

POPULAR CABLE ADAPTERS



CB901-1A
2 pin MIL to 2 pin MIL,
in-line feed through,
316L stainless steel



CB903-1A
2 pin MIL to 2 pin MIL,
bulkhead feed through,
0.5 in. (12.7 mm) NPT,
316L stainless steel

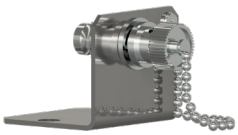
CB908-1A
2 pin MIL (316L stainless steel)
to BNC plug adapter
(nickel-plated brass),
with overmolded reinforcement

CB910-1A
In-line BNC jack adapter,
nickel-plated brass

CB911-1A
BNC "T" adapter,
nickel-plated zinc

CB911-3A
In-line BNC plug adapter,
nickel-plated brass

CB912-1A
2 socket MIL (black zinc alloy)
to BNC plug adapter
(nickel-plated brass),
with overmolded reinforcement



CB917-1A
BNC jack to jack connector
(nickel-plated brass)
with mounting bracket
(304 stainless steel),
includes BNC cap cover
and chain

EMPP
Molded BNC jack connector
with nylon threaded protector

CB919-1A
Right-angle BNC connector
jack to plug,
nickel-plated brass

CB916-1A
BNC plug to BNC plug,
nickel-plated brass,
with safety feature

CB913-1A
2 socket MIL (black zinc alloy)
to BNC jack adapter
(nickel-plated brass),
with overmolded reinforcement

JUNCTION BOXES

CTC offers the widest variety of junction boxes in the world. Our junction box solutions allow for the monitoring of remotely mounted vibration sensors which would be otherwise restricted to human access due to safety consideration. We also offer a selection of low-cost cable termination boxes that allow multiple measurement points to be routed to a single location to gather data. Many CTC junction boxes offer continuous output options for direct interface with online monitoring systems.

Premium JB Series Switch Boxes

Fully-featured NEMA 4X (IP66) rated vibration junction box with IEPE sensor condition indicator lights and convenient interface with fold-forward panel for easy wiring. Compatible with single axis, biaxial, and triaxial inputs.

JB100 / JB200
Standard Size
Fiberglass or stainless steel,
input options:
4 to 12 single, dual, or triaxial
output sensors

JB100 / JB200
Extended Capacity
Fiberglass or stainless steel,
input options:
4 to 48 single, dual, or triaxial
output sensors

JB300
Slope Top
Stainless steel slope top,
input options:
4 to 12 single, dual, or triaxial
output sensors

Legacy Switch Boxes

SB102 / SB202 / SB262
Standard Size
Fiberglass, stainless steel,
or stainless steel slope top,
input options:
4 to 12 single axis sensors

SB142 / SB242 / SB282
Standard Size
Fiberglass, stainless steel,
or stainless steel slope top,
input options:
4 to 8 dual output sensors

SSB-MODX
Module
Single-axis switch module,
DIN rail mountable,
input options:
4 to 12 single axis sensors

Cable Termination and Enclosed BNC Connection Boxes

CT101
Cable termination box,
input options:
1 to 4 single output
sensors

MX702
Polycarbonate
mini-MAXX box,
enclosed BNC connectors,
1 to 4 single output
sensors

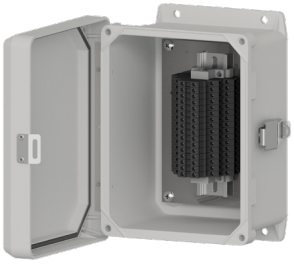
MX102 / MX202
Fiberglass or stainless steel
MAXX Boxes,
input options:
1 to 12 single output
sensors

MX502
Aluminum
Mini-MAXX Box,
input options:
1 to 4 single output
sensors

Cable Reduction Boxes

CTC cable reduction boxes reduce the input cabling of up to 16 individual sensors into one multi-conductor cable. Utilizing a cable reduction box can significantly reduce cabling costs for applications with long cable runs. Fiberglass and stainless steel options are available.

CR102 / CR202
Fiberglass or stainless steel,
input options:
8, 12, and 16 single output sensors,
-58 to 180 °F (-50 to 82 °C)



CRHT102 / CRHT202
Fiberglass or stainless steel,
high temperature, input options:
12 and 16 single output sensors,
-40 to 212 °F (-40 to 100 °C)

Empty Enclosures and Replacement Boards

JBA0608-FG
Empty fiberglass enclosure,
6 x 8 x 4 in.
(152.4 x 203.2 x 101.6 mm)

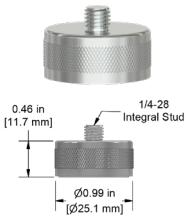
JBA0608-SS
Empty stainless steel
enclosure,
6 x 8 x 4 in.
(152.4 x 203.2 x 101.6 mm)

JB900 Series
Single axis, multi-channel switch
box PC boards

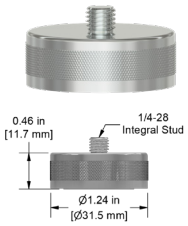
MOUNTING HARDWARE

CTC offers a variety of adhesive and stud mounted sensor mounting pads. Magnet mounting pad options for portable field applications are also available, including flat and two-rail mounting configurations. We also offer specialty mounting accessories for fin-cooled motors as well as a variety of mounting probe tips which allow access to traditionally hard-to-reach bearing locations.

Neodymium Iron Boron Rare Earth Magnets - Flat Surface

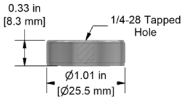


MH103-1B
Pull strength:
40 lbs (18 kg)



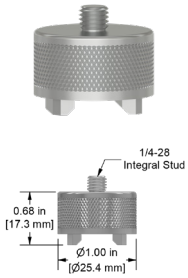
MH104-1B
Pull strength:
60 lbs (27 kg)

MH110-1A
Ultra low profile,
pull strength:
21 lbs (10 kg)

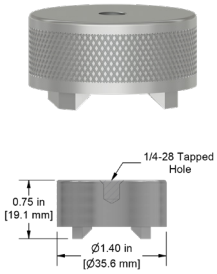


MH111-1A
Ultra low profile,
pull strength:
24 lbs (11 kg)

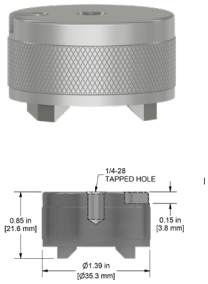
Neodymium Iron Boron Rare Earth Magnets - Multipurpose



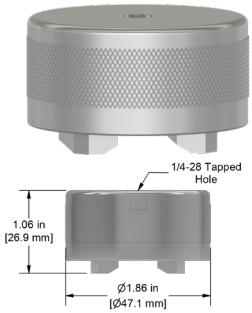
MH112-1A
Pull strength:
30 lbs (14 kg)



MH114-3A
Pull strength:
50 lbs (23 kg)

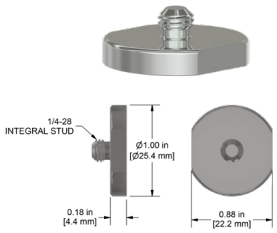


MH114-3T
With triaxial locating notch,
Pull strength:
50 lbs (23 kg)

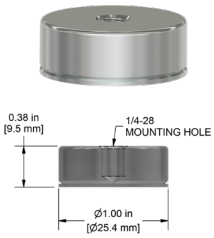


MH115-2A
Pull strength:
95 lbs (43 kg)

Mounting Pads and Magnet Targets

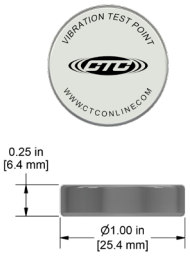


MH101-1B
Adhesive mounting pad



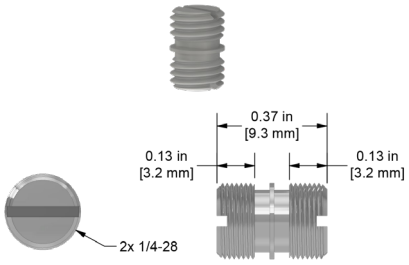
MH130-1A
Adhesive mounting pad

MH130-1T
Adhesive mounting pad
with triaxial locating notch

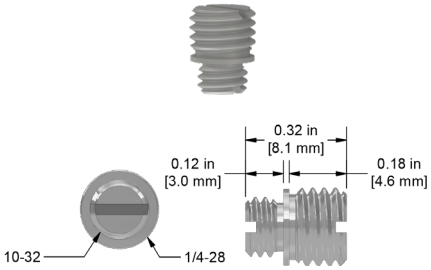


MH133-1A
Low profile
mounting target

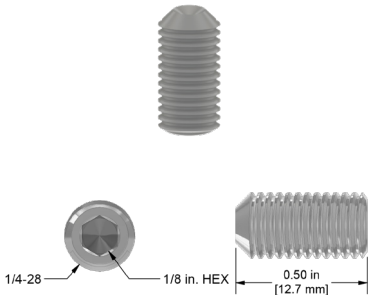
Specialty Mounting Studs and Adapter Studs



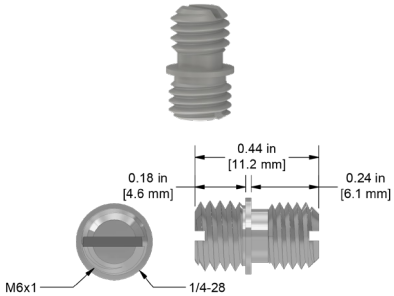
MH108-1B
¼-28 to ¼-28 mounting stud,
18-8 stainless steel



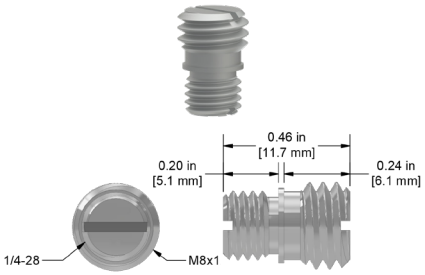
MH108-3B
¼-28 to 10-32 adapter stud,
303 stainless steel



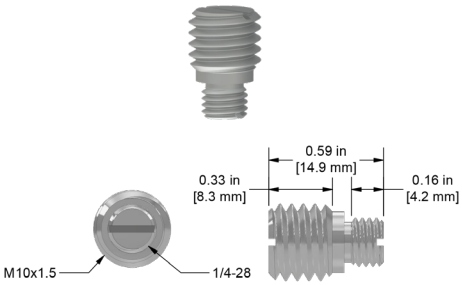
MH108-4B
¼-28 mounting screw,
18-8 stainless steel



MH108-5B
¼-28 to M6x1 adapter stud,
303 stainless steel

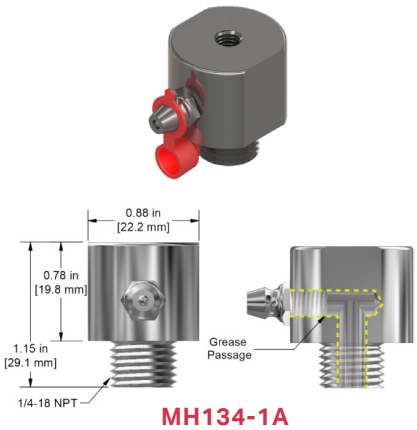


MH108-6B
¼-28 to M8x1.25 adapter stud,
303 stainless steel

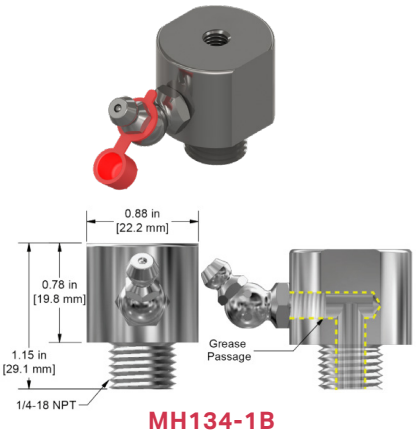


MH108-7B
¼-28 to M10x1.5 adapter stud,
303 stainless steel

Mounting Pads for Machine Lubrication



MH134-1A
With straight Zerk
grease fitting adapter,
¼-18 NPT mounting thread,
17-4 stainless steel

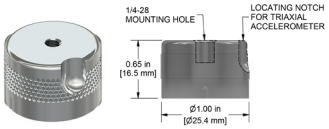


MH134-1B
With 45° Zerk
grease fitting adapter,
¼-18 NPT mounting thread,
17-4 stainless steel

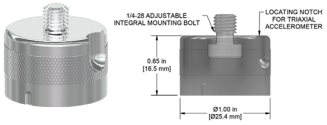
MH143-1C
With no Zerk
grease fitting adapter,
¼-18 NPT mounting thread,
17-4 stainless steel

Accelerometer Quick Disconnects

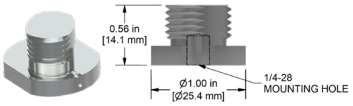
Quick Disconnects are ideally suited for triaxial sensor use. The permanently-mounted stud creates a consistent mounting location for portable routes. The receptacle features a triaxial locating notch and ¼-turn engagement onto the stud, ensuring the sensor is oriented in the same position for every reading.



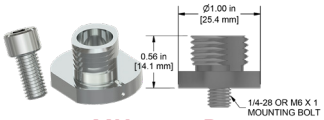
MH107-1A
Quick disconnect receptacle



MH107-3A
Quick disconnect receptacle



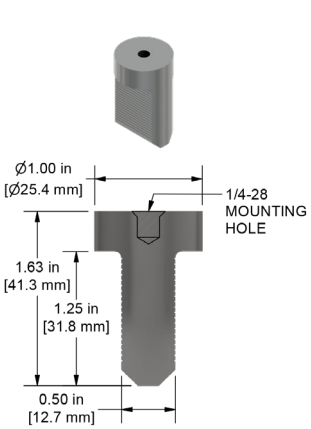
MH107-1B
Quick disconnect stud



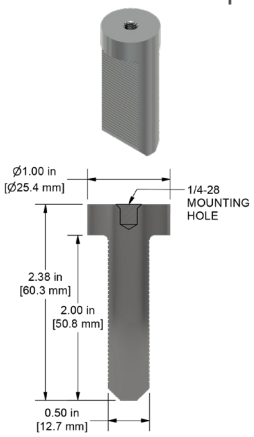
MH107-2B
Quick disconnect stud with through-hole mounting

Motor Fin Mount Pads

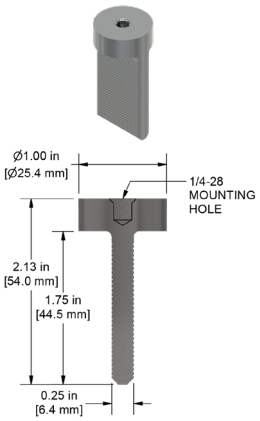
Take measurements in tough-to-reach places. Our fin mount probes are perfect for narrow measurement points in fin-cooled motors. Once installed, fin mounts can be used to attract a magnet for portable route measurements or permanently mounted accelerometers.



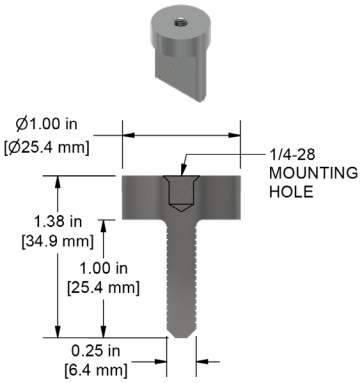
MH118-1A
17-4 stainless steel



MH118-2A
17-4 stainless steel



MH118-3A
17-4 stainless steel



MH118-4A
17-4 stainless steel

MH117 Series Accelerometer Installation Tool Kits

Spot face and drill in one operation, with options for taps and ratcheting tap handle included.

High Speed Steel End Mill Tool Kits

Thread Sizes	End Mill Diameters
¼-28	1 in., 1¼ in.
M6x1	1¼ in.

Carbide Tipped End Mill Tool Kits

Thread Sizes	End Mill Diameters
¼-28	1¼ in.

Designed For Use With Wireless Sensors

Thread Size	End Mill Diameters
¼-28	1¾ in.

MH117-10A and MH117-10B are designed for use with popular wireless sensors including:
Acoem Eagle EGL1103000
Acoem Sparrow SPW123000
Baker Hughes Ranger Pro 70M303-AXX
Erbessd Phantom EPH-V11E & EPH-V10E
Sensoteq Tau E TS201 (Stud Version)

AMP LINE CONTINUOUS HEALTH MONITORING SOLUTIONS

CTC provides a wide range of 4-20 mA output solutions for industrial applications. Our standard loop power vibration sensors offer both velocity and acceleration output measurement options. Additionally, our dual output loop power sensors combine a 4-20 mA output proportional to vibration with a temperature output in a single sensor. You can choose from top or side exit connectors, integral cables, and armored integral cable options for these sensors.

We also offer 24 VDC powered transmitters that power standard IEPE accelerometers, converting vibration into a powered 4-20 mA signal. When paired with CTC dual output vibration and temperature sensors, these transmitters provide a 4-20 mA output for temperature as well.

Output Proportional to Vibration in Velocity

LP200 Series
1st order analog filter, -4 to 212 °F (-20 to 100 °C) temperature range, dual output with °C temperature output option available

LP500 Series
2nd order digital filter, -40 to 257 °F (-40 to 125 °C) temperature range, 2 Hz low frequency response, dual output with °C temperature output and 4-20 mA proportional to temperature options available

Output Proportional to Vibration in Acceleration

LP300 Series
1st order analog filter, -4 to 212 °F (-20 to 100 °C) temperature range, dual output with °C temperature output option available

LP600 Series
2nd order digital filter, -40 to 257 °F (-40 to 125 °C) temperature range, 2 Hz low frequency response, dual output with °C temperature output and 4-20 mA proportional to temperature options available

Hazardous Rated

LPH802
Nonincendive, intrinsically safe, CSA North America Class 1, Division 1 and IECEx/ATEX Zone 0,1 approved, output proportional to vibration in velocity

LPH822
Nonincendive, CSA North America Class 1, Division 2, IECEx/ATEX Zone 2 approved, output proportional to vibration in velocity

LPH902
Nonincendive, intrinsically safe, CSA North America Class 1, Division 1 and IECEx/ATEX Zone 0,1 approved, output proportional to vibration in acceleration

LPH922
Nonincendive, CSA North America Class 1, Division 2, IECEx/ATEX Zone 2 approved, output proportional to vibration in acceleration

Signal Conditioners

CTC's SC Series signal conditioners are fully customizable for your application's needs and price point. All SC Series signal conditioners provide process control signals to a PLC, DCS, or SCADA system that are proportional to the vibration levels set within the signal conditioner and come with a built-in temperature output.

The SC310 Series offers a single vibration band output. The SC320 Series features dual band technology which allows the user to configure two independent process control output signals from one sensor. This feature allows for the monitoring of two separate vibration / frequency bands with one device, such as both standard vibration monitoring and ultrasonic early bearing fault detection. Limited to 100 mV/g accelerometers, the SC150 provides over $100 in savings over the SC300 Series without compromising on its excellence.

SC150
Standard signal conditioner for 100 mV/g sensors, with 4-20 mA proportional output and user-selectable 0-10 or 0-5 V output

SC310
USB configurable, single band vibration/ultrasound plus temperature

SC320
USB configurable, dual band vibration/ultrasound plus temperature

Signal Conditioner Enclosures

CTC's signal conditioner enclosures are turnkey solutions which come fully populated with signal conditioners, power supply, and terminal blocks for easy sensor terminations. Terminal blocks come wired to the signal conditioners and the outputs from the signal conditioners are wired to terminal blocks for integration into PLC / DCS systems. The signal conditioners come configured based on customer requirements.

SCE110 Series
Fiberglass enclosure for 1 to 4 SC Series signal conditioners, NEMA 4X (IP66) rated

SCE310 Series
Fiberglass enclosure for 1 to 8 SC Series signal conditioners, NEMA 4X (IP66) rated

SCD100 Series
Fiberglass relay and display enclosure for 1 to 4 SC Series signal conditioners, NEMA 4X (IP65) rated

PRO LINE PROXIMITY PROBE SYSTEMS

CTC offers a complete line of proximity probe (or eddy current probe) systems designed and built to endure the harshest industrial environments. Proximity probe systems are available with probe tip sizes of FFv™, 8 mm, 11 mm, and 25 mm diameters. The variety of probe sizes offered allows accurate and precise machinery measurements for applications involving radial dynamic, axial rotor position, and thermal case expansion measurements. Hazardous area approved systems are also available.

Probe Tip Options

FFv™
Standard or armor jacketed cable

8 mm
Standard or armor jacketed cable

11 mm
Standard or armor jacketed cable

25 mm
Standard or armor jacketed cable

Complete Your Proximity Probe Set

Drivers
With BNC for fully-buffered dynamic voltage output

Extension Cables
Standard or armor jacketed cable

NPT Pressure Seal Fitting
Single sided NPT fitting with armor jacketed cable on external cable side

Proximity Probe Accessories

Enclosures
Fiberglass or stainless steel, 1 to 14 channels, powered and 4-20 mA options available

Reverse Mount Housing
Top or side exit, anodized aluminum body, 316L stainless steel sleeve

Mounting Blocks
Aluminum clamping blocks for ¼-28, M8x1, and M10x1 probe bodies

Mounting Bushings
316L stainless steel

TMP LINE TEST AND MEASUREMENT PRODUCTS

TMP Line products, CTC's line of lightweight and low profile test and measurement instruments, are thoughtfully engineered to provide efficient and reliable research-grade data measurements at the industry's lowest price point.

Test and Measurement Accelerometers

Our TMP sensors are lightweight and low profile, making them suitable for many laboratory testing and general purpose applications. Constructed with titanium cases and having frequency ranges up to 30 kHz, TMP sensors are among the highest quality vibration sensors in the world. All sensors come packaged in a complimentary, reusable storage case to protect your investment.

TCA110 and TCB110
Top exit or side exit
10-32 coaxial connector,
10 mV/g,
±10% sensitivity tolerance,
0.35 oz. (10 g)

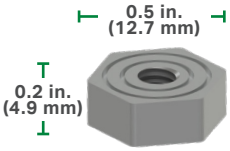
TDA110 and TDB110
Top exit or side exit
10-32 coaxial connector,
50 mV/g,
±10% sensitivity tolerance,
0.35 oz. (10 g)

TEA110 and TEB110
Top exit or side exit
10-32 coaxial connector,
100 mV/g,
±10% sensitivity tolerance,
0.35 oz. (10 g)

TFA110 and TFB110
Top exit or side exit
10-32 coaxial connector,
500 mV/g,
±10% sensitivity tolerance,
0.35 oz. (10 g)

Test and Measurement Mounting Bases

Our lightweight, low profile mounting bases are designed for superior performance in research and development applications.



MHT130
Isolated mounting pad

MHT154
Flat surface mounting magnet,
15 lbs (18 kg) pull strength

Test and Measurement Coaxial Cabling and Connectors

TMC01
White FEP jacket

TMC02
Black PVC jacket

TMC03
Green PTFE jacket

EC and FC
BNC jack and plug connectors

FD10 and MD10
10-32 jack and plug connectors