

FEATURING PRODUCTS BY:



CONNECTION TECHNOLOGY CENTER, INC.
CONNECT TO CONFIDENCE



VIBRATION MONITORING & MACHINERY PROTECTION

Our mission is to offer the widest variety of vibration analysis hardware products that are compatible with data collectors and online monitoring systems, as well as the tools for installation.

Our products reflect the inputs of our customers and distributors around the country and around the world.

WHAT WE CAN OFFER

- VIBRATION SENSORS
- CABLES AND CONNECTORS
- JUNCTION BOXES
- MOUNTING HARDWARE



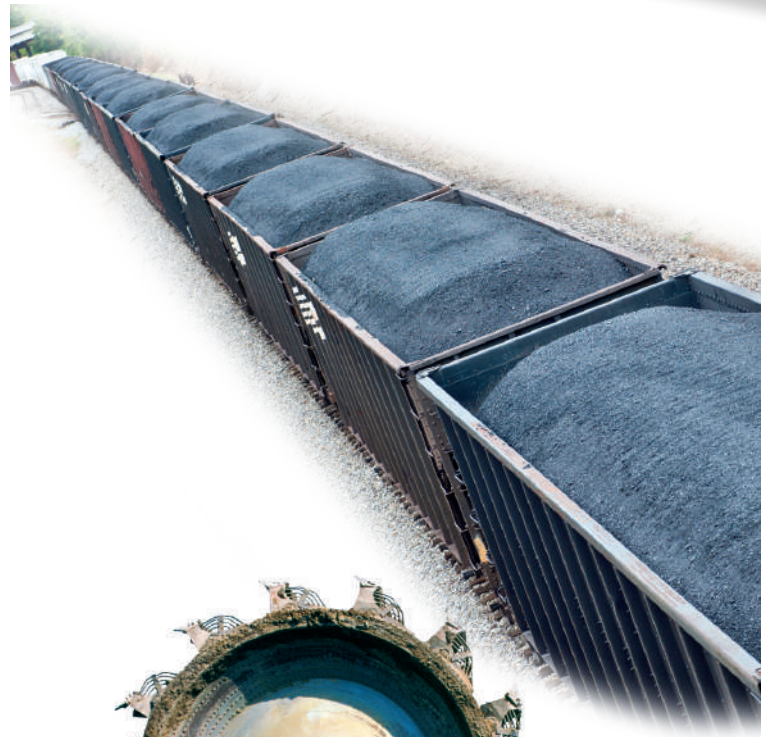
MINING

Critical Assets

Monster Machines, Massive Miners, Big Rigs, and Trains are all critical assets to the mining industry. These jumbo machines are built on wheels, tracks, or articulating pads and rely on motors, generators, gearboxes, pumps, and fans to keep them running at peak capacity. When one of these critical machines go down, production is decreased, and profits suffer. Reliability never had a bigger job, and industrial vibration analysis plays a key role in machinery uptime. Predicting a possible failure through vibration analysis provides time to source spare parts, schedule an outage, and minimize production loss at the mine site.

Accelerometers For Machines With Rolling Element Bearings

Vibration of rolling element bearings, gears, and common faults such as unbalance, misalignment, blade pass, vane pass, and motor generator frequencies are typically handled with 100 mV/g accelerometers. Low frequency applications require 500 mV/g for better signal to noise ratios. Both sensitivities come in top exit and side exit configurations. Dual output sensors combining vibration and temperature measurements are also available providing both critical measurements in one hermetically sealed package.



Proximity Probes For Machines With Fluid Film Bearings

Many large motors, generators, and gear boxes will incorporate fluid film bearings. The rotating shafts of these machines are supported on an oil film or oil wedge, and require the measurement of actual shaft vibration. The best method of making this measurement is through the use of X and Y radial proximity probes. These PRO probes are non-contact eddy current sensors that measure the vibration of the shaft relative to the case of the machine, and the location (gap) of the shaft in the bearing. They can be mounted externally to the bearing using threaded or clamping probe brackets. The most common size has an 8 mm tip diameter and comes in 3/8-24 or M10x1 threads. There are various case lengths and cable lengths to choose from, and these are typically integrated with an extension cable and driver (electronics) to form a sensor set providing an output of 200 mV/mil or 8 V/mm. Armored cables are preferred in the mining industry. Junction boxes and local displays with relays are available to distribute and measure the vibration and gap.





PRO
PRODUCTS

Proximity Probes for
Fluid Film Bearings



PROXIMITY PROBES

DP100102-00-40-10-01-00



EXTENSION CABLES

DC100130-080-03-00



DRIVERS

DD100180-91-00



ENCLOSURES

PXE150P





ETC
PRODUCTS

Accelerometers for
Rolling Element Bearings



MOTORS/GENERATORS

VIBRATION	VIBRATION & TEMPERATURE
AC102 SERIES	TA102 SERIES
AC104 SERIES	TA104 SERIES
AC192 SERIES	AC192 SERIES
AC194 SERIES	AC194 SERIES
AC136 SERIES	AC136 SERIES
AC136 SERIES	AC136 SERIES

GEAR BOXES

VIBRATION	VIBRATION & TEMPERATURE
AC102 SERIES	TA102 SERIES
AC104 SERIES	TA104 SERIES
AC192 SERIES	AC192 SERIES
AC194 SERIES	AC194 SERIES
AC136 SERIES	AC136 SERIES
AC136 SERIES	AC136 SERIES

PUMPS/FANS

VIBRATION	VIBRATION & TEMPERATURE
AC102 SERIES	TA102 SERIES
AC104 SERIES	TA104 SERIES
AC192 SERIES	AC192 SERIES
AC194 SERIES	AC194 SERIES
AC136 SERIES	AC136 SERIES
AC136 SERIES	AC136 SERIES

CONVEYORS

VIBRATION	VIBRATION & TEMPERATURE
AC102 SERIES	TA102 SERIES
AC104 SERIES	TA104 SERIES
AC192 SERIES	AC192 SERIES
AC194 SERIES	AC194 SERIES
AC136 SERIES	AC136 SERIES
AC136 SERIES	AC136 SERIES

Cables

CB111	CB112
CB206	CB218
	CB119

Connectors

A2A/B2A A2N/B2N D2H	A3A/B3A A3N/B3N
A2A/B2A A2N/B2N D2H	A3A/B3A A3N/B3N

Cable & Connector Sets

V2N + CB111	V2N + CB119
SB102/202 CR102/202 SSB1000/2000 MMX1000/2000	SB142/242 DSB1000/2000
SB102/202 CR102/202 SSB1000/2000 MMX1000/2000	SB142/242 DSB1000/2000

Mounting Hardware

Stud Mounting, Quick Disconnect, Zerk Adaptor, Adhesive Mounting Pads and Fin Mounts for Motors and Generators



SENSORS

Accelerometer	Sensitivity	Frequency Response	Dynamic Range	Cable Exit
AC102 Series	100 mV/g +/- 10%	0.5 - 15,000 Hz	+/- 50 g	Top
AC104 Series	100 mV/g +/-10%	0.5 – 10,000 Hz	+/- 50 g	Side
AC192 Series	100 mV/g +/-10%	0.4 – 13,000 Hz	+/- 80 g	Top
AC194 Series	100 mV/g +/-10%	0.5 – 10,000 Hz	+/- 80 g	Side
AC135 Series	500 mV/g +/-10%	0.2 – 3,000 Hz	+/- 10 g	Top
AC136 Series	500 mV/g +/-10%	0.2 – 3,000 Hz	+/- 10 g	Side
TA102 Series	100 mV/g +/-10% 10mV/°C	0.5 – 15,000 Hz	+/- 50 g 3-121°C	Top
TA104 Series	100 mV/g +/-10% 10mV/°C	0.5 – 10,000 Hz	+/- 50 g 3-121°C	Side

Sensors

In harsh mining environments where falling debris, dust and dirt are a way of life, the integral cable sensors eliminate connector contamination concerns, and integral armor cable adds another level of durability to the sensor/cable set. This is typical in most conveyor applications where conductive dust and sediment can penetrate and disrupt continuity in a standard cable and connector combination. If a sensor and cable set is used, there are still a number of robust cables and connectors to choose from leaving the freedom to connect and disconnect the sensor as required.



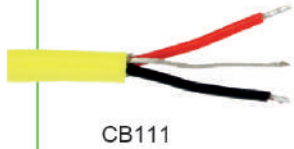
Integral Armor



Integral Cable



Cables



CB111

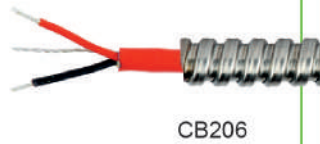


CB112

Robust cabling is a must for the mining industry. CB111 with a yellow Teflon® jacket for accelerometers, and CB112 with a white Teflon® jacket for dual output sensors provide a tough chemically resistant cable for most applications.

In demanding environments where the

toughest cable is required, CB206 red Teflon® with a Stainless Steel armor jacket for accelerometers, or CB218 red Teflon® with a Stainless Steel armor jacket for dual output sensors can be used with great success.



CB206



CB218

Connectors



A2A/A2N



B2A/B2N

combinations of silicone and polycarbonate, the B2N/B3N feature combinations of silicone, and nylon. The D2H is a MIL 5015 C connector featuring black anodized aluminum.

The A2A, A2N, A3A, and A3N all use a silicone sealing ring with a stainless steel locking collar. The B2A, B2N, B3A and B3N all use a seal tight boot that slides over the sensor connector creating a vacuum tight seal. The D2H is constructed from aluminum, with a black anodized finish, using a silicone sealing ring and conforms to MIL 5015 C. The numeral 2 designates connectors for accelerometers, and the numeral 3 designates connectors for dual output sensors. All connectors are rated at IP66.



A3A/A3A



B3R/B3N



D2H

Junction Boxes

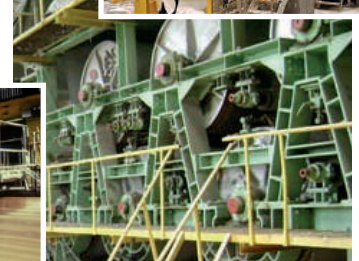
Large gains in safety and efficiency can be realized by implementing junction boxes in your condition monitoring program at the mine. Multiple sensors can be wired from the machine to the junction boxes for safe local measurements, or the transmission of data to online vibration monitoring systems. CTC never limits you to a local measurement, as all junction boxes offer current and future connections for switched outputs during manual route data collection of the vibration signals. All junction boxes are available in fibreglass or stainless steel and feature well organized sensor management and measurement access in a NEMA 4X enclosure.



PAPER INDUSTRY

Tough Environment

Hot, wet, dry and chemically challenging for cables and connectors. Paper Mills require vibration analysis hardware that is robust and reliable. Paper breaks, mis-guided felts, and unfortunately, fires, can all create havoc for vibration condition monitoring programs. Selection of the proper accelerometers, cables, connectors, and junction boxes can relieve many of these troubling problems and assist you in maintaining a functional and reliable vibration program for years to come.



	WET END		WET PRESS		DRYER		FINISHING	
Sensors	VIBRATION	VIBRATION & TEMPERATURE	VIBRATION	VIBRATION & TEMPERATURE	VIBRATION	VIBRATION & TEMPERATURE	VIBRATION	VIBRATION & TEMPERATURE
	AC102 SERIES AC104 SERIES AC192 SERIES AC194 SERIES	TA102 SERIES TA104 SERIES	AC102 SERIES AC104 SERIES AC192 SERIES AC194 SERIES	TA102 SERIES TA104 SERIES	AC207 SERIES AC208 SERIES	TA102 SERIES (<121°C) TA104 SERIES (<121°C)	AC102 SERIES AC104 SERIES AC192 SERIES AC194 SERIES	TA102 SERIES TA104 SERIES
Cables	CB111 CB206	CB112 CB218	CB111 CB206	CB112 CB218	CB111 CB206	CB112 CB218	CB111 CB206	CB112 CB218
Connectors	A2R/B2R A2N/B2N	A3R/B3R A3N/B3N	A2R/B2R A2N/B2N	A3R/B3R A3N/B3N	A2R/B2R A2N/B2N	A3R/B3R A3N/B3N	A2R/B2R A2N/B2N	A3R/B3R A3N/B3N
Junction Boxes	SB102/202 CR102/202 SSB1000/2000	SB142/242 DSB1000/2000	SB102/202 CR102/202 SSB1000/2000	SB142/242 DSB1000/2000	CRHT102/202	SB142/242 (<82°C) DSB1000/2000 (<82°C)	SB102/202 CR102/202 SSB1000/2000	SB142/202 DSB1000/2000
Mounting Hardware	Stud Mounting Quick Disconnect		Stud Mounting Quick Disconnect		Stud Mounting Quick Disconnect		Stud Mounting, Quick Disconnect and Adhesive Mounting Pads	

PROBES & ACCESSORIES

Proximity Probes

We are proud to offer our customers API Standard 670 and Bently compatible Proximity Probes, constructed with durable stainless steel and backed by our industry leading lifetime warranty.

- Multiple case & thread lengths available
- 8 mm probe tip diameter with 3/8-24 or M10x1 threaded body
- 5 & 9 Meter System Lengths Available

Standard Mount



Reverse Mount



Armor Jacketed



Pin & Panel Mount

** Proximity Probes are designed to be mounted on fluid film bearings using PRO Proximity Probe Mounts. It is important that they are mounted correctly to provide the most accurate measurements.*

Driver Enclosure



Driver enclosures allow you to protect up to six proximity probe drivers from dirt, dust, oil and water. Optional, factory installed DC power supply, pre-wired to drivers.

Extension Cables

PRO extension cables are Teflon® or armor jacketed and integrated as a component for a complete vibration monitoring assembly.



Connector Protect Options



Booted Protector



Self-Adhesive Silicone Tape

Mounting Hardware



Mounting Bushings
3/4" 14 NPT and 1/2" 14 NPT



Clamping
Mounting Blocks



Non-Clamping
Mounting Blocks



SWB
GLOBAL SOLUTIONS, LOCAL SERVICE

CTC
CONNECTION TECHNOLOGY CENTER, INC.
CONNECT TO CONFIDENCE

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