



CONNECTION TECHNOLOGY CENTER, INC.



THE INDUSTRY'S BEST

PROXIMITY PROBE SYSTEMS



YES, IT'S COVERED!

At CTC, we understand that predictive machine maintenance is vital across a wide array of industrial applications. That's why we've developed the industry's most durable and reliable line of proximity probe systems including proximity probe tips, cables, drivers, enclosures, mounting hardware and accessories, as well as Bently® compatible options.

For more than a quarter of a century, CTC has stood behind its promise to bring you the best industrial solutions to simplify 24/7 protection of critical machinery and applications, designed to withstand long term use in the harshest industrial environments.

We're so proud of our **PRO Line** of products, we back up our promise with the industry's best-in-class Lifetime Warranty on materials and workmanship.

If any PRO Line proximity probe or related product should ever fail, CTC will repair or replace it at no charge.

We not only offer you the highest quality products on the market, but we also offer you unmatched service and peace of mind for the lifetime of your CTC Line product.

We wouldn't have you do business any other way.



A handwritten signature in black ink that reads "Todd Cook".

TODD COOK
Co-owner



A handwritten signature in black ink that reads "Laura B. Cook".

LAURA COOK
Co-owner



A handwritten signature in black ink that reads "Andrew Cook".

ANDREW COOK
Director
of Sales

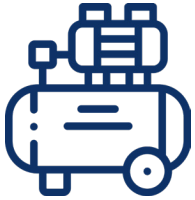


A handwritten signature in black ink that reads "Charlotte Cook".

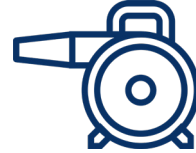
CHARLOTTE COOK
Director of
Marketing

COMMON PROXIMITY PROBE APPLICATIONS

PRO LINE PROXIMITY PROBE SYSTEMS ARE DESIGNED AND ASSEMBLED AND THE USA TO MEET AND EXCEED YOUR DATA COLLECTION NEEDS IN A VARIETY OF INDUSTRIAL APPLICATIONS:



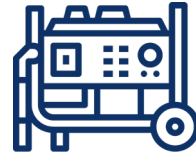
COMPRESSORS



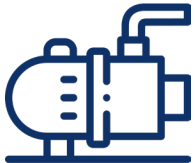
BLOWERS



STEAM TURBINES



GENERATORS



PUMPS



GEAR BOXES



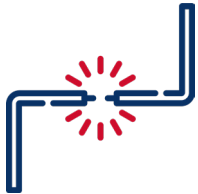
FANS

BEST IN CLASS WARRANTY

THE PRO LINE OF PRODUCTS IS COVERED BY A BEST-IN-CLASS LIFETIME WARRANTY ON MATERIALS AND WORKMANSHIP.

SHOULD ANY PRO LINE PROXIMITY PROBE OR RELATED PRODUCT EVER FAIL, CTC WILL REPAIR OR REPLACE IT AT NO CHARGE.

HERE ARE JUST SOME OF THE REASONS WE'VE OFFERED HASSLE-FREE, FREE-OF-CHARGE REPAIR OR REPLACEMENT OF PROXIMITY PROBES TO OUR VALUED CUSTOMERS:



FAULTY MATERIALS



FAULTY WORKMANSHIP



LOOSE CONNECTOR ASSEMBLIES AND MANY OTHER SPECIFIC DEFECTS RELATED TO MATERIALS OR WORKMANSHIP

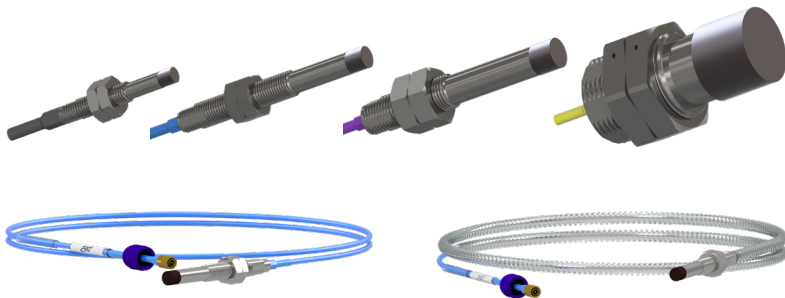
WHAT WE OFFER

LEARN MORE ABOUT THE PRO LINE OF PROXIMITY PROBE SYSTEMS AND ACCESSORIES

CTC offers a complete line of proximity probe systems designed, built and tested to endure prolonged use in the harshest industrial environments. PRO Line proximity probe systems are available with probe tip sizes of 5 mm FFv, 8 mm, 11 mm, and 25 mm diameters, with Bently® compatible options. The variety of probe sizes offered allows for accurate and precise machinery measurements for applications involving radial dynamic, axial rotor position, and thermal case expansion measurements.

PROBE TIP OPTIONS:

- ▶ 5 mm FFv, 8 mm, 11 mm, and 25 mm tip
- ▶ Standard cable and armor cable



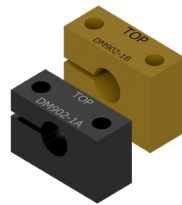
PROXIMITY PROBE ACCESSORIES:



ENCLOSURES
fiberglass and stainless
steel, 1-6 channels



**REVERSE
MOUNT
HOUSING**



**MOUNTING
BLOCKS**

COMPLETE YOUR PROXIMITY PROBE ASSEMBLY:

DRIVERS

- ▶ 5 mm FFv, 8 mm, 11 mm, and 25 mm
- ▶ Hazardous rated options also available



EXTENSION CABLES

- ▶ Standard cable and armor cable

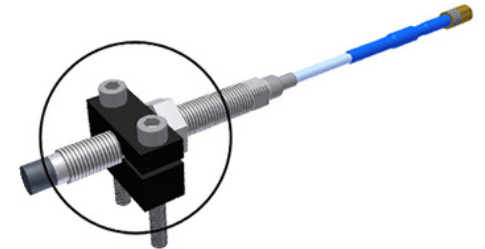


PROXIMITY PROBE MOUNTING OPTIONS

LEARN ABOUT THE THREE MAIN WAYS TO MOUNT PROXIMITY PROBES

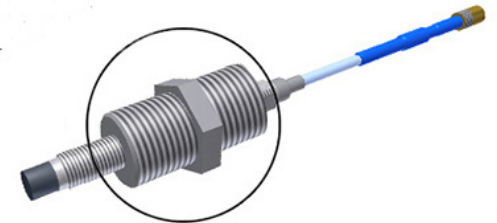
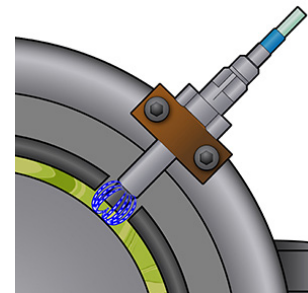
1. INTERNAL MOUNTING:

Internal mounting refers to the mounting of eddy current probes completely inside the machine or bearing housing with **PRO Line DM902** series brackets (or with custom-designed and manufactured brackets). Internal mounting allows the probe to measure the shaft surface, minimizes installation costs, and offers very precise measurement of the shaft position and vibration.



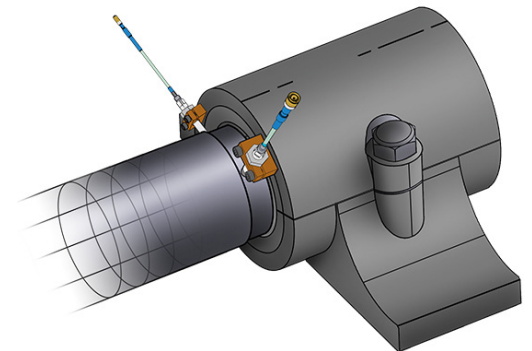
2. THROUGH MOUNTING:

Through mounting, also known as 'internal / external' mounting, is where the probe is mounted through the bearing casing using a mounting adapter bushing like **PRO Line DM901 and DM903**, and the casing is counter bored to prevent the probe from side sensing or providing false readings from the bearing housing. This allows external access to the probe while also allowing the probe tip to be internal to the bearing housing or machine.



3. EXTERNAL MOUNTING:

External proximity probe mounting is typically used when other methods are not available. Special care must be given to the quality of the shaft surface, and mechanical protection of the exposed probes and cables is required. This method offers a easy access to the probes and low installation costs. However, exposed areas of the shaft may experience scuffing, scratching or rust which limits the measurement quality of the probes.



PRO LINE HIGHLIGHTS

THE PRO LINE OF PROXIMITY PROBES FEATURES CTC'S BEST-IN-CLASS CONSTRUCTION, OFFERINGS AND WARRANTY. SEE WHY CUSTOMERS PURCHASE PRO LINE PROXIMITY PROBE PRODUCTS TIME AND TIME AGAIN:



FASTER LEAD TIMES



ENHANCED DURABILITY



VARIETY OF THREAD SIZES



COMPREHENSIVE OFFERINGS:

- ▶ PRO Line or Bentley® compatible probes
- ▶ FFv 5 mm, 8 mm, 11 mm, 25 mm options
- ▶ Intrinsically safe offerings
- ▶ Mounting hardware, enclosures and drivers



LIFETIME WARRANTY ON MATERIALS AND WORKMANSHIP:

SHOULD ANY PRO LINE PROXIMITY PROBE OR RELATED PRODUCT EVER FAIL, WE WILL REPAIR OR REPLACE IT AT NO CHARGE.

PRO LINE vs. BENTLY® NEVADA

PROXIMITY PROBE DRIVE COMPARISON

SPECIFICATION FEATURE	PRO LINE DP and DX BENTLY® COMPATIBLE DRIVERS	BENTLY® NEVADA DRIVERS
WARRANTY	lifetime warranty on materials and workmanship	<i>three year limited warranty</i>
LEAD TIME	10 days	<i>weeks to months</i>
DRIVER OUTPUTS	BNC isolated output and terminal block	<i>terminal block</i>
DRIVER INPUT CONNECTIONS	four position, screw clamp, pluggable terminal block	<i>spring cage connections</i>
4-20mA GAP DRIVER	FFv, 8 mm, 11 mm, 25 mm	<i>not available</i>
4-20mA RADIAL AND AXIAL DRIVER	FFv, 8 mm, 11 mm, 25 mm	<i>probes only</i>
4-20mA SPEED DRIVER	FFv, 8 mm, 11 mm	<i>not available</i>
ROBUST DRIVER MOUNTING	aluminum mounting hardware	<i>plastic mounting hardware</i>
MATERIAL SPECIFICATIONS	standard offerings of: 4140, 17-4, 420, 360, 7075	4140
4-20mA RADIATED IMMUNITY*	maximum current increase of 3.13% of 16mA current range	<i>maximum current increase of 54.38% of 16mA current range</i>
TEMPERATURE RATINGS	-51 °C to 177 °C (-60 °F to 350 °F)	-51 °C to 177 °C (-60 °F to 350 °F)
FREQUENCY RESPONSE 5 mm	0 - 10 kHz: +0, -3 dB typical with up to 1000 ft of field wiring	0 - 10 kHz: +0, -3 dB typical with up to 1000 ft of field wiring
FREQUENCY RESPONSE 8 mm	0 - 10 kHz: +0, -3 dB typical with up to 1000 ft of field wiring	0 - 10 kHz: +0, -3 dB typical with up to 1000 ft of field wiring
FREQUENCY RESPONSE 11 mm	0 - 8 kHz: +0, -3 dB typical with up to 1000 ft of field wiring	0 - 8 kHz: +0, -3 dB typical with up to 1000 ft of field wiring

* tested frequencies of 103 MHz - 180 MHz

PRO LINE vs. BENTLY® NEVADA

PROXIMITY PROBE COMPARISON

SPECIFICATION FEATURE	PRO LINE DP and DX BENTLY® COMPATIBLE PROBES	BENTLY® NEVADA PROBES
WARRANTY	lifetime warranty on materials and workmanship	<i>three year limited warranty</i>
LEAD TIME	days	<i>weeks</i>
PROBE CASE MATERIAL	AISI 316L stainless steel	<i>AISI 304 stainless steel</i>
PROBE TIP RATING	IP68	<i>specialty probes needed</i>
PROBE TIP PRESSURE RATING	Viton® O-ring seal tested to 100 psi. Probes are not pressure tested prior to shipment	<i>sealing material consists of a Viton® O-ring. Probes are not pressure tested prior to shipment</i>
CABLE JACKET	Thicker cable jacket for increased durability when pulling through conduit	<i>tears through when pulling through conduit</i>
REVERSE MOUNT FFv PROBE OPTIONS	1/4-24 thread, M8x1 thread, 3/8-24 thread, M10x1 thread	<i>3/8-24 thread, M10x1 thread</i>
TEMPERATURE RATINGS	-51 °C to 177 °C (-60 °F to 350 °F)	-51 °C to 177 °C (-60 °F to 350 °F)
LINEAR RANGE 5 mm (FFv)	10 - 70 Mils (60 Mils)	10 - 70 Mils (60 Mils)
LINEAR RANGE 8 mm	10 - 90 Mils (80 Mils)	10 - 90 Mils (80 Mils)
LINEAR RANGE 11 mm	20 - 180 Mils (160 Mils)	20 - 180 Mils (160 Mils)
RECOMMENDED GAP 5 mm FFv PROBE	40 Mils	40 Mils
RECOMMENDED GAP 8 mm PROBE	50 Mils	50 Mils
RECOMMENDED GAP 11 mm PROBE	100 Mils	100 Mils

FAQs

ANSWERS TO SOME OF YOUR MOST COMMON QUESTIONS ABOUT PRO LINE PROXIMITY PROBE SYSTEMS

Q WHAT PRODUCTS QUALIFY FOR THE LIFETIME WARRANTY ON MATERIALS AND WORKMANSHIP?

A Any PRO Line proximity probe product (indicated by the blue PRO logo) can be returned for a complimentary repair or replacement, for any reason, at any time. CTC and TMP Line products are covered by separate best-in-class warranties.

Q WHAT MAKES THE PRO LINE LIFETIME WARRANTY DIFFERENT FROM COMPETITORS?

A The PRO Line lifetime warranty on materials and workmanship covers many repairs and replacements that are not typically covered by our competitors, for the lifetime of your PRO Line product. The PRO Line warranty is easy to utilize when needed, and ensures your proximity probes and related products will provide years of reliable service in the field. We are committed to standing by our customers and providing unmatched service and support for the lifetime of your PRO Line product.

Q HOW DO I RETURN MY PRO LINE PRODUCT FOR REPAIR OR REPLACEMENT?

A The process for requesting a repair or replacement for your PRO Line product is simple - visit: www.ctconline.com/rma.aspx to complete the online RMA Form, and be sure to select 'Warranty Repair/Replacement' under the 'We are Requesting' field. The CTC Team will begin processing your RMA request upon receipt of your completed form.



CONTACT CTC

CTC IS HERE TO HELP WITH YOUR VIBRATION ANALYSIS NEEDS

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