



THE INDUSTRY'S BEST

PROXIMITY PROBE SYSTEMS



WHAT WE OFFER

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 in FFv, 8 mm, 11 mm, and 25 mm systems. The variety of probe sizes offered allows for accurate and precise machinery measurements for applications involving radial dynamic, axial rotor position, 4-20 mA, and thermal case expansion measurements. Complete PRO proximity probe systems are compatible with all standard condition monitoring software, including Bently Nevada® software.

PROBE TIP OPTIONS:

- ▶ 5 mm FFv, 8 mm, 11 mm, and 25 mm tip
- ▶ Standard cable and armor cable
- ▶ AISI 316L stainless steel probe case material



PROXIMITY PROBE ACCESSORIES:



ENCLOSURES



REVERSE
MOUNT
HOUSING



MOUNTING
BLOCKS &
BUSHINGS

COMPLETE YOUR PROXIMITY PROBE ASSEMBLY:

DRIVERS

- ▶ 5 mm FFv, 8 mm, 11 mm, and 25 mm
- ▶ BNC isolated output
- ▶ 4-20 mA or voltage terminal block output



EXTENSION CABLES

- ▶ Standard cable and armor cable



PROXIMITY PROBE MOUNTING OPTIONS

LEARN ABOUT THE THREE MAIN WAYS TO MOUNT PROXIMITY PROBES

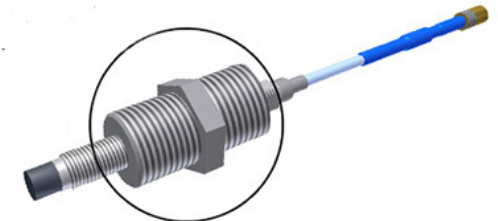
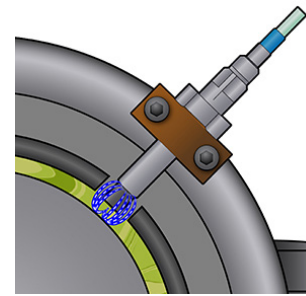
1. INTERNAL MOUNTING:

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. REVERSE MOUNT HOUSING (PRO Line DM91000):

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 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:

- ▶ AISI 316L stainless steel probe case
- ▶ IP68 rated
- ▶ Aluminum driver case design ensures robust driver mounting



DRIVER CALIBRATION OPTIONS FOR A VARIETY OF TARGET MATERIALS:

- | | |
|----------------------------|------------------------|
| ▶ AL7075-T6 Aluminum Alloy | ▶ 17-4 Stainless Steel |
| ▶ 360 Brass Alloy | ▶ 304 Stainless Steel |
| ▶ 4140 Steel | ▶ 316L Stainless Steel |
| ▶ C1045 Steel | ▶ 420 Stainless Steel |



COMPREHENSIVE OFFERINGS:

- ▶ FFv 5 mm, 8 mm, 11 mm, and 25 mm options
- ▶ Variety of thread sizes
- ▶ Intrinsically safe offerings
- ▶ Mounting hardware, enclosures and drivers



BUILT TO LAST. PROTECTED FOR LIFE.

All PRO Line products are backed by an industry-leading lifetime warranty on materials and workmanship.

HAVE THE CONFIDENCE OF A PRO

PROXIMITY PROBE COMPARISON

SPECIFICATION FEATURE	PRO LINE PROBES	COMPETITORS' PROBES
WARRANTY	Lifetime warranty on materials and workmanship	Three year limited warranty
LEAD TIME	Weeks	Months
PROBE CASE MATERIAL	AISI 316L stainless steel	AISI 304 stainless steel
PROBE TIP RATING	IP68	Specialty probes needed
PROBE TIP PRESSURE RATING	Viton® O-ring seal tested to 100 psi.	Sealing material consists of a Viton® O-ring
CABLE JACKET	Thicker cable jacket for increased durability when pulling through conduit	Tears through when pulling through conduit
REVERSE MOUNT FFv PROBE OPTIONS	1/4-24 thread, M8x1 thread, 3/8-24 thread, M10x1 thread	3/8-24 thread, M10x1 thread
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

HAVE THE CONFIDENCE OF A PRO

PROXIMITY PROBE DRIVER COMPARISON

SPECIFICATION FEATURE	PRO LINE DRIVERS	COMPETITORS' PROBES
WARRANTY	Lifetime warranty on materials and workmanship	Three year limited warranty
LEAD TIME	Weeks	Months
DRIVER OUTPUTS	BNC isolated output and terminal block	Terminal block
DRIVER INPUT CONNECTIONS	Four position, screw clamp, pluggable terminal block	Spring cage connections
4-20MA GAP DRIVER	FFv, 8 mm, 11 mm, 25 mm	Not available
4-20mA RADIAL AND AXIAL DRIVER	FFv, 8 mm, 11 mm, 25 mm	Probes only
4-20mA SPEED DRIVER	FFv, 8 mm, 11 mm	Not available
ROBUST DRIVER MOUNTING	Aluminum mounting hardware	Plastic mounting hardware
MATERIAL SPECIFICATIONS	Standard offerings of: 17-4, 304, 316L, 360, 420, 4140, 7075	4140
4-20mA RADIATED IMMUNITY*	Maximum current increase of 3.13% of 16 mA current range	maximum current increase of 54.38% of 16mA current range
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

YES, IT'S COVERED!

At CTC, we understand that predictive 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 probes, cables, drivers, enclosures, and mounting hardware and accessories - all compatible with any standard condition monitoring software.

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 proximity probe systems we back them with the industry's best-in-class lifetime warranty on materials and workmanship.

Faulty materials? Covered.

Faulty workmanship? Covered.

Loose connector assemblies or any other material or workmanship defects? Yes, it's covered.

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



TODD COOK
Co-Owner



LAURA COOK
Co-Owner



CHARLOTTE COOK
Director of
Marketing



CONTACT CTC

CTC IS HERE TO HELP WITH YOUR VIBRATION ANALYSIS NEEDS

+01 585.924.5900

SALES@CTCONLINE.COM

CONNECTION TECHNOLOGY CENTER, INC. | 7939 RAE BLVD | VICTOR, NY 14564 | USA