

Intrinsically Safe DD100770 Series



Intrinsically Safe 11 mm PRD Proximity Probe Driver for Eddy Current Probe, 4-20 mA Output

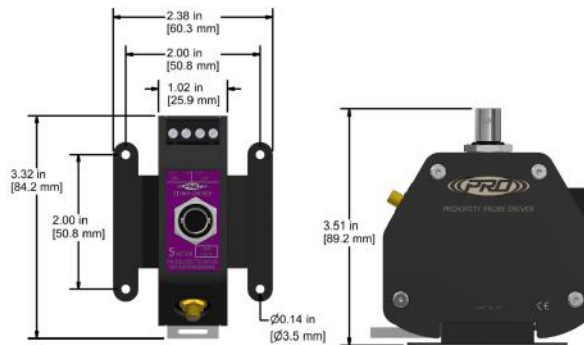


Product Features

Continuous Monitoring in Hazardous Areas

Driver Assembly offers multiple options for mounting and easy connection via screw terminals

- ▶ 4-20 mA current loop provides power to the driver, and a displacement output proportional to the DC gap
- ▶ Flexible system configuration
- ▶ Upgraded to include SecureLock connector



Specifications

Temperature Range	-49°F (-45°C) to 185°F (85°C)
Enclosure	Anodized Aluminum
Probe Connector	SecureLock
Power & Output Connector	4 Position Terminal Block & BNC
Input Voltage	17.5 to 30 VDC (Loop Powered)
Linear Range	20 - 180 mils (0.5 - 4.5 mm)
Nominal Voltage Output	-100 mV/mil (-3.94 V/mm)
4-20 mA Output Proportional To	DC Gap

Built to Order

Optional Regulatory Approvals

US & Canada:

Class I Division 1 Groups A, B, C, D
 Class II Division 1 Group E, F, G
 Class III
 Class I Zone 0 AEx ia IIC
 Class I Division 2 Groups A, B, C, D
 Class II Division 2 Groups E, F, G
 Ex ia IIC Ga

ATEX:

SIRA 16ATEX2084X
 Ex ia IIC

International (IECEx):

IECEx CSA 16.0017X
 Ex ia IIC

Temperature Codes:

T4 = -45°C to 100°C
 T5 = -35°C to 85°C



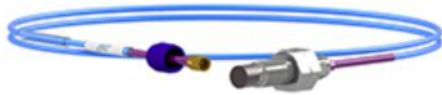
CSA, ATEX, IECEx Approvals Require Intrinsically Safe Barrier
 Driver must be mounted in a NEMA 4x and/or IP6x enclosure
FOR REFERENCE ONLY, PLEASE REFER TO CONTROL DRAWING

Lifetime Warranty on Materials & Workmanship

www.ctconline.com | sales@ctconline.com | 585-924-5900

Intrinsically Safe DP1007

Intrinsically Safe 11 mm PRO Proximity Probes



Product Features

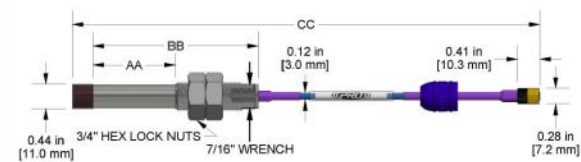
Continuous Monitoring in Hazardous Locations

Measures shaft vibration and displacement on machinery with fluid film bearings

- ▶ 11 mm probe tip diameter with 1/2-20, 3/8-24, M14x1.5 or M10x1 threaded body
- ▶ Probe tip and body sealed to prevent leaking through cable
- ▶ Upgraded to include SecureLock connector

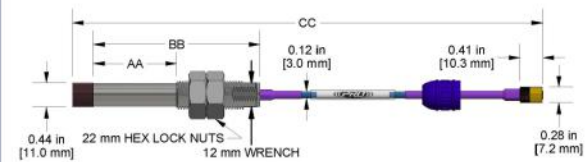
DP100701

Standard Mount



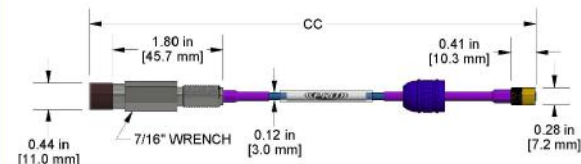
DP100703

Standard Mount



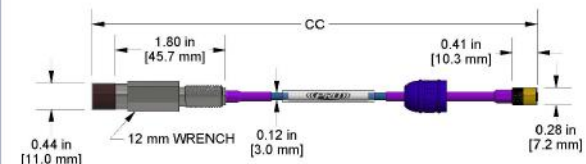
DP100705

Reverse Mount



DP100706

Reverse Mount



Lengths AA, BB, and CC are configurable

Specifications

Temperature Range	-49 to 350°F (-45 to 177°C)
Sensitivity	-100 mV/mil (-3.94 V/mm) (1 mil = 0.001")
Material	FEP Cable Jacket with 316L Stainless Steel Probe Body
Case Thread	1/2-20 or M14x1.5 (Standard Mount) or 3/8-24 or M10x1 (Reverse Mount)
Wrench Flats	7/16 in or 12 mm
Rating	IP68
Connector	SecureLock

Built to Order

Regulatory Approvals

US & Canada:

Class I Division 1 Groups A, B, C, D
 Class II Division 1 Groups E, F, G
 Class III
 Class I Zone 0 AEx ia IIC
 Class I Division 2 Groups A, B, C, D
 Class II Division 2 Groups E, F, G
 Ex ia IIC Ga

ATEX:

SIRA 16ATEX2084X
 Ex ia IIC

International (IECEx):

IECEx CSA 16.0017X
 Ex ia IIC

Temperature Codes:

T4 = -45°C to 100°C
 T5 = -35°C to 85°C



Intertek
 5025350

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Intrinsically Safe DP1007 with Armor

Armored Intrinsically Safe 11 mm PRO Proximity Probes



Product Features

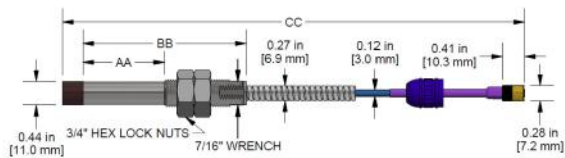
Continuous Monitoring in Hazardous Locations

Measures shaft vibration and displacement on machinery with fluid film bearings

- ▶ 11 mm probe tip diameter with 1/2-20, 3/8-24, M14x1.5 or M10x1 threaded body
- ▶ Probe tip and body sealed to prevent leaking through cable
- ▶ Upgraded to include SecureLock connector

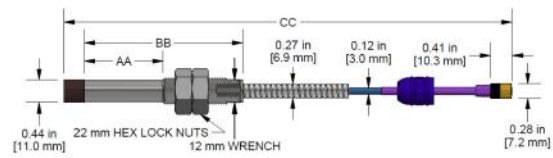
DP100702

Standard Mount



DP100704

Standard Mount



Lengths AA, BB, and CC are configurable

Specifications

Temperature Range	-49 to 350°F (-45 to 177°C)
Sensitivity	-100 mV/mil (-3.94 V/mm) (1 mil = 0.001")
Material	FEP Cable Jacket with 316L Stainless Steel Probe Body
Case Thread	1/2-20 or M14x1.5 (Standard Mount) or 3/8-24 or M10x1 (Reverse Mount)
Wrench Flats	7/16 in or 12 mm
Rating	IP68
Connector	SecureLock

Built to Order

Regulatory Approvals

US & Canada:

Class I Division 1 Groups A, B, C, D
 Class II Division 1 Groups E, F, G
 Class III
 Class I Zone 0 AEx ia IIC
 Class I Division 2 Groups A, B, C, D
 Class II Division 2 Groups E, F, G
 Ex ia IIC Ga

ATEX:

SIRA 16ATEX2084X
 Ex ia IIC

International (IECEX):

IECEX CSA 16.0017X
 Ex ia IIC

Temperature Codes:

T4 = -45°C to 100°C
 T5 = -35°C to 85°C



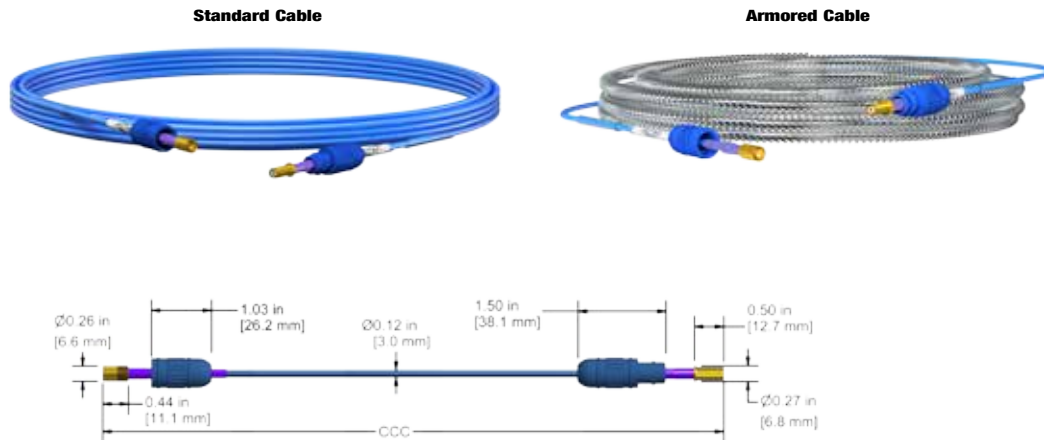
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DC100730 Series

Intrinsically Safe, PRO 11 mm Series, Extension Cable



REGULATORY APPROVALS

IECEX CSA 16.0017X

SA® C US 221421

Ex II 1G

CE 0518

US & Canada (CSA):
 Class I Division 1 Groups A, B, C, D
 Class II Division 1 Groups E, F, G
 Class III
 Class I Zone 0 AEx ia IIC
 Class I Division 2 Groups A, B, C, D
 Class II Division 2 Groups E, F, G
 Ex ia IIC Ga

ATEX:
 SIRA 16ATEX2048X
 Ex ia IIC

International (IECEX):
 IECEX CSA 16.0017X
 Ex ia IIC

Temperature Codes:
 T4 = -45°C to 100°C
 T5 = -35°C to 85°C

Product Features

Continuous Monitoring in Hazardous Locations

PRO DC100730 extension cables combine with PRO DP1007 series probes and PRO DD1007 series drivers to form a complete assembly to monitor vibration and shaft position.

- Matched with PRO 11 mm probes and driver assemblies for cost effective and reliable measurements
- Excellent chemical resistance
- Protective sleeves to cover connections

Specifications

Temperature Range: -31°F (-35°C) to 350°F (177°C)
 Connector pull strength up to 70 lbs
 Matched to 5 & 9 meter system lengths
 Male & female miniature 12-32 threaded connectors
 FEP jacketed cable, available with optional 304 stainless steel armor jacket

Ordering Information

DC100730 - CCC - [] - [] - 05

System Length (REFERENCE ONLY)	Total Length of Extension Cable	Armor	Regulatory Approval
50 = 5.0 meter	040 = 4.0 meter	02 = No, with connector protector 03 = Yes, with connector protector	05 = CSA, ATEX, IECEX Approvals
90 = 9.0 meter	080 = 8.0 meter		



Example Part Number: DC100730-040-02-05
 4.0 meter total length, no armor, with connector protector, CSA, ATEX, IECEX certified

Read Before Purchasing:
 Important information on Regulatory Approvals and Requirements on Pages 421-423



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