

Intrinsically Safe DD100880 Series



Intrinsically Safe 25 mm PRO Proximity Probe Driver for Eddy Current Probe, Voltage Output

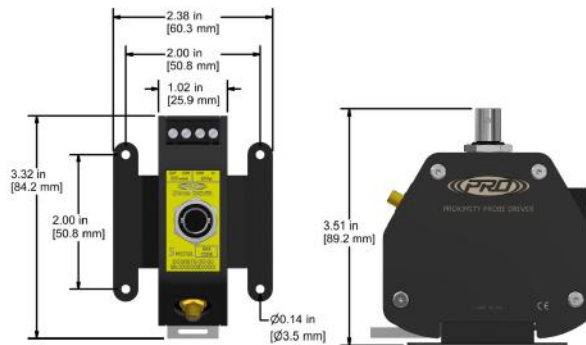


Product Features

Continuous Monitoring in Hazardous Locations

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

- ▶ DC gap and shaft vibration signals available via terminal block for analysis or monitoring
- ▶ 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
Linear Range	25-525 mils (0.63-13.33 mm)
Nominal Voltage Output	-20 mV/mil (-0.787 V/mm)

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



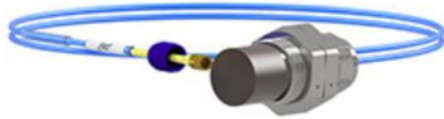
CSA, ATEX, IECEx Approvals Require Intrinsically Safe Barrier
 Driver must be mounted in a NEMA 4x and/or IP6x enclosure
FOR REFERENCE ONLY, PLEASE REFER TO CONTROL DRAWING

Lifetime Warranty on Materials & Workmanship

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

Intrinsically Safe DP100851

Intrinsically Safe 25 mm PRO Proximity Probes



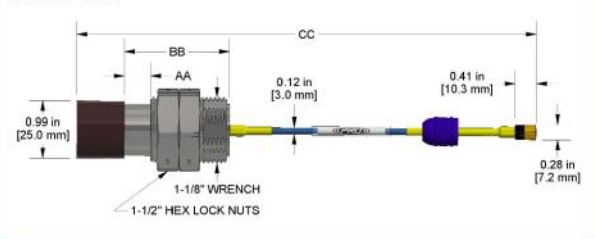
Product Features

Continuous Monitoring in Hazardous Locations

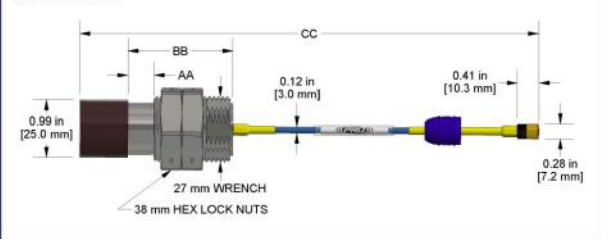
Measures Differential Expansion (DE) on machinery with fluid film bearings

- ▶ 25 mm probe tip diameter with 1 1/4-12 or M30x2 threaded body
- ▶ Probe tip and body sealed to prevent leaking through cable
- ▶ Upgraded to include SecureLock connector

DP10085101
Standard Mount



DP10085102
Standard Mount



Lengths AA, BB, and CC are configurable

Specifications

Temperature Range	-49 to 350°F (-45 to 177°C)
Sensitivity	-20 mV/mil (-0.787 V/mm) (1 mil = 0.001")
Material	FEP Cable Jacket with 316L Stainless Steel Probe Body
Case Thread	1 1/4-12 or M30x2
Wrench Flats	1 1/8 in or 27 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
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Temperature Codes:

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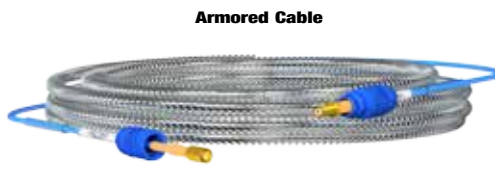
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Lifetime Warranty on Materials & Workmanship

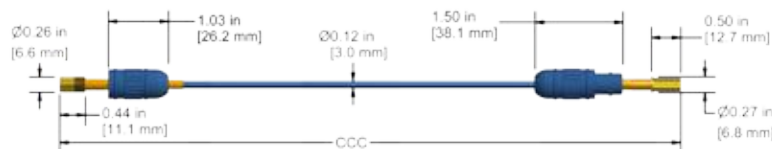
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Standard Cable



Armored Cable



REGULATORY APPROVALS

IECEX
CSA 16.0017X



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 DC100854 extension cables combine with PRO DP100851 series probes and PRO DD1008 series drivers to form a complete assembly for monitoring Differential Expansion (DE).

- Matched with PRO 25 mm probes and driver assemblies for cost effective and reliable measurements
- Excellent chemical resistance
- Protective sleeves to cover connection

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

DC100854

CCC

05

System Length
(REFERENCE ONLY)

50 = 5.0 meter

90 = 9.0 meter

Total Length of Extension Cable	Armor	Regulatory Approval
040 = 4.0 meter	02 = No, with connector protector 03 = Yes, with connector protector	05 = CSA, ATEX, IECEx Approvals
080 = 8.0 meter		



Example Part Number: **DC100854-040-02-05**

4.0 meter total length, no armor, with protector connector, CSA, ATEX, IECEx certified



Read Before Purchasing:

Important information on [Regulatory Approvals](#) and [Requirements](#) on Pages 421-423



PROTECTION & RELIABILITY INSTRUMENTS

Lifetime Warranty on Materials & Workmanship