Intrinsically Safe DD100170 Series



Intrinsically Safe 8 mm PRO Proximity Probe Driver for Eddy Current Probe, 4-20 mA Output

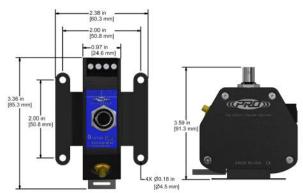


Product Features

Continuous Monitoring in Hazardous Locations

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	10 - 90 mils (.25 - 2.30 mm)
Nominal Voltage Output	0.20 mA/mil (7.87 mA/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 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

Intrinsically Safe DP1001

Intrinsically Safe 8 mm PRO Proximity Probes





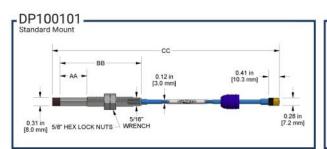


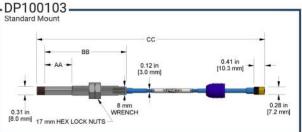


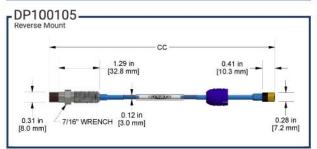
Continuous Monitoring in Hazardous Locations

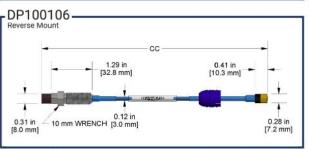
Measures shaft vibration and displacement on machinery with fluid film bearings

- 8 mm probe tip diameter with 3/8-24 or M10x1 threaded body
- Probe tip and body sealed to prevent leaking through cable
- Upgraded to include SecureLock connector









Lengths AA, BB, and CC are configurable

-49 to 350°F (-45 to 177°C)	
-200 mV/mil (-7.87 V/mm) (1 mil = 0.001")	
FEP Cable Jacket with 316L Stainless Steel Probe Body	
3/8-24 or M10x1	
5/16 in or 8 mm (Standard Mount), 7/16 in or 10 mm (Reverse Mount)	
IP68	
SecureLock	
	-200 mV/mil (-7.87 V/mm) (1 mil = 0.001") FEP Cable Jacket with 316L Stainless Steel Probe Body 3/8-24 or M10x1 5/16 in or 8 mm (Standard Mount), 7/16 in or 10 mm (Reverse Mount) IP68

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 II Division 2 Groups A, B, C, D Class II Division 2 Groups A, B, C, D Class II Division 2 Groups E, F, G Ex ia IIC Ga International (IECEx): IECEX CSA 16.0017X Ex ia IIC IECEX CSA 16.0017X Ex ia IIC

FOR REFERENCE ONLY, PLEASE REFER TO CONTROL DRAWING

Intrinsically Safe DP1001 with Armor



Armored Intrinsically Safe 8 mm PRO Proximity Probes



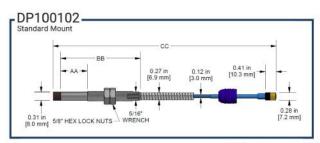


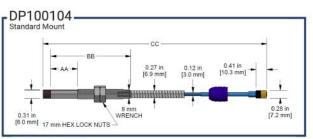
Product Features

Continuous Monitoring in Hazardous Locations

Measures shaft vibration and displacement on machinery with fluid film bearings

- ▶ 8 mm probe tip diameter with 3/8-24 or M10x1 threaded body
- Probe tip and body sealed to prevent leaking through cable
- Upgraded to include SecureLock connector





Lengths AA, BB, and CC are configurable

Specifications		
Temperature Range	-49 to 350°F (-45 to 177°C)	
Sensitivity	-200 mV/mil (-7.87 V/mm) (1 mil = 0.001")	
Material	FEP Cable Jacket with 316L Stainless Steel Probe Body	
Case Thread	3/8-24 or M10x1	
Wrench Flats	5/16 in or 8 mm (Standard Mount), 7/16 in or 10 mm (Reverse Mount)	
Rating	IP68	
Connector	SecureLock	
	B. 11	

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

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



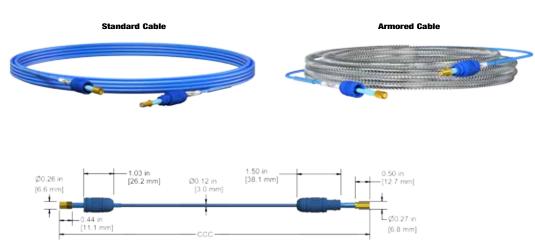






FOR REFERENCE ONLY, PLEASE REFER TO CONTROL DRAWING

Intrinsically Safe, PRO 8mm Series, Extension Cable



REGULATORY APPROVALS IECEX CSA 16.0017X US 221421 US & Canada (CSA): Class I Division 1 Groups A, B, C, D Class II Division 2 Groups E, F, G Class I 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 DC1001 extension cables combine with DP1001 series probes and DD1001 series drivers to form a complete assembly to monitor vibration and shaft position.

- Matched with PRO 8 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)

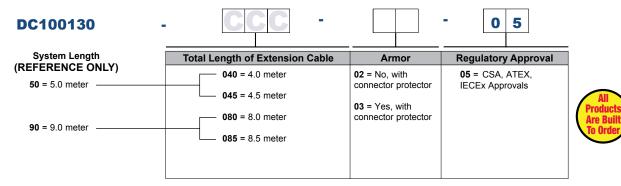
Connector pull strength up to 70 lbs

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



Example Part Number: *DC100130-040-02-05*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

