

# Proximity Drivers - PRO Line

8 mm, FFv, 11 mm, 25 mm



Panel Mount Option  
(Shown Above)

## Product Features

**PRO Line Proximity Drivers pair with PRO Line Proximity Probes to offer configurable machinery protection with high quality components and industry best lead time.**

- *Optional 4-20mA current loop provides power to the driver, and a current output proportional to DC, AC, or Dynamic Displacement*
- *Isolated voltage output standard at terminal block (Vout and Com)*
- *Isolated voltage output at the BNC*

## OPTIONAL REGULATORY APPROVALS



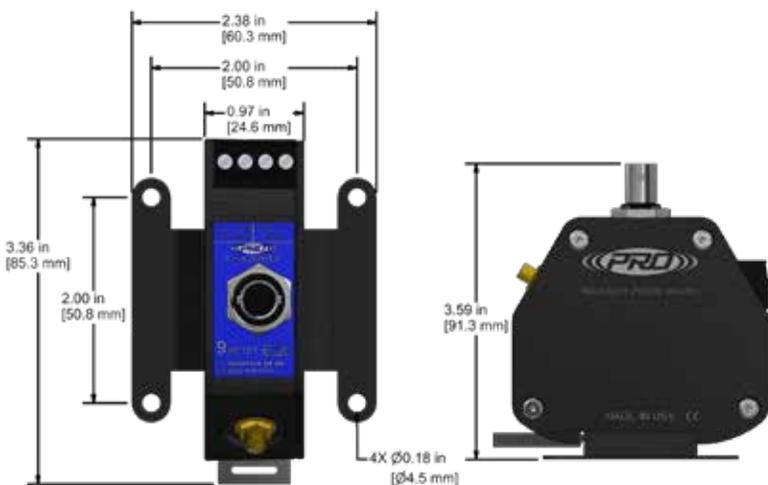
**US & Canada (CSA):**  
Class I Division 1 Groups A, B, C, D  
Class II Division 1 Groups E, F, G  
Class III  
Class I Zone 0 AEx ia IIC  
Class I Division 2 Groups A, B, C, D  
Class II Division 2 Groups E, F, G  
Ex ia IIC Ga

**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

**CSA, ATEX, IECEx Approvals Require Intrinsically Safe Barrier**  
**Driver must be mounted in a NEMA 4x and/or IP6x enclosure**



Panel Mount Option  
(Shown Above)

## SPECIFICATIONS

Temperature Range:	-49°F (-45°C) to 189°F (85°C)
Enclosure:	Aluminum
Probe Connector:	Miniature 12-32 Threaded Connector
Power & Output Connector:	4 Position Terminal Block & BNC
Input Voltage:	-17.5 to -30 VDC

	FFv	8 mm	11 mm	25 mm
Linear Range:	10-70 mils (0.25 - 1.78 mm)	10-90 mils (0.25 - 2.30 mm)	20-180 mils (0.5 - 4.5 mm)	25-525 mils (0.6 - 13.3 mm)
Nominal Voltage Output:	-200 mV/mil (-7.87 V/mm)	-200 mV/mil (-7.87 V/mm)	-100 mV/mil (-3.94 V/mm)	-20 mV/mil (-0.787 V/mm)

	Standard - DD100x70	Radial - DD100x90	Axial - DD100x91	RPM - DR100x99
4-20 mA Output Proportional to:	Dynamic Displacement	AC Displacement, Pk-Pk	DC Displacement, Thrust	RPM Scale

## 4-20 mA Current Loop Power Option

### TERMINAL BLOCK WIRING

Connections	Functions
-	4-20 mA Current Loop
+	
Com	Com
Vout	Nominal Voltage Out

## Voltage Output (DD100x80)

### TERMINAL BLOCK WIRING

Connections	Functions
Vt	-24 VDC
Com	Com
Com	Com
Vout	Nominal Voltage Out

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## STANDARD DRIVERS

### ORDERING INFORMATION

DD1     -   -

Calibrated Material	Probe Type	Output Option	System Length	Mounting Type	Regulatory Approval
00 = 4140 Steel 08 = 1045 Steel 10 = 17-4 Stainless Steel 11 = 420 Stainless Steel 12 = 304 Stainless Steel 13 = 316 Stainless Steel 20 = 360 Brass Alloy 30 = AL7075-T	1 = 8 mm 7 = 11 mm 8 = 25 mm 9 = 5 mm FFv	70 = 4-20 mA 80 = Voltage	5 = 5.0 meter 7 = 7.0 meter (FFv only) 9 = 9.0 meter (non-FFv)	0 = Panel 1 = DIN	00 = CE Certified 05 = CSA, ATEX, IECEx, CE Approvals



Example Part Number: **DD100170-91-00**  
4140 Steel, 8 mm probe, 4-20 mA output, 9.0 meter (non-FFv), DIN mount, CE Certified

## RPM DRIVERS

### ORDERING INFORMATION

DR1   **99** -   -   -       -

Calibrated Material	Probe Type	System Length	Mounting Type	# of Keyways	Full Scale RPM	Regulatory Approval
00 = 4140 Steel	1 = 8 mm 7 = 11 mm 9 = 5 mm FFv	5 = 5.0 meter 7 = 7.0 meter (FFv only) 9 = 9.0 meter (non-FFv)	0 = Panel 1 = DIN	01 = 1 Keyway 99 = 99 Keyways	Min of 000005 Max of 065000	00 = CE Certified 05 = CSA, ATEX, IECEx, CE Approvals



Example Part Number: **DR100799-91-99-000500-00**  
4140 Steel, 11 mm probe, 9.0 meter (non-FFv), DIN mount, 99 Keyways, 500 RPM, CE Certified

## RADIAL DRIVERS

### ORDERING INFORMATION

DD1    **90** -   -   -   -

Calibrated Material	Probe Type	Full Scale	System Length	Mounting Type	Regulatory Approval
00 = 4140 Steel 08 = 1045 Steel 10 = 17-4 Stainless Steel 11 = 420 Stainless Steel 12 = 304 Stainless Steel 13 = 316 Stainless Steel 20 = 360 Brass Alloy 30 = AL7075-T	1 = 8 mm 7 = 11 mm 8 = 25 mm 9 = 5 mm FFv	FFv and 8mm Ranges 04 = 0-4 mils pp 05 = 0-5 mils pp 10 = 0-10 mils pp 15 = 0-15 mils pp 11mm and 25mm Ranges 01 = 0-10 mils pp 02 = 0-20 mils pp 05 = 0-50 mils pp	50 = 5.0 meter 70 = 7.0 meter (FFv only) 90 = 9.0 meter (non-FFv)	00 = Panel 01 = DIN	00 = CE Certified 05 = CSA, ATEX, IECEx, CE Approvals



Example Part Number: **DD100990-04-50-01-00**  
4140 Steel, 5 mm FFv probe, 0-4 mils pp, 5.0 meter, DIN mount, CE Certified

## AXIAL DRIVERS

### ORDERING INFORMATION

DD1    **91** -   -   -   -

Calibrated Material	Probe Type	Full Scale	System Length	Mounting Type	Regulatory Approval
00 = 4140 Steel 08 = 1045 Steel 10 = 17-4 Stainless Steel 11 = 420 Stainless Steel 12 = 304 Stainless Steel 13 = 316 Stainless Steel 20 = 360 Brass Alloy 30 = AL7075-T	1 = 8 mm 7 = 11 mm 8 = 25 mm 9 = 5 mm FFv	FFv and 8mm Ranges 06 = 0.6-0.6 mm 25 = 25-0-25 mils 11mm Ranges 12 = 1.2-0-1.2 mm 50 = 50-0-50 mils 25mm Ranges 05 = 5-0-5 mm 20 = 200-0-200 mils	50 = 5.0 meter 70 = 7.0 meter (FFv only) 90 = 9.0 meter (non-FFv)	00 = Panel 01 = DIN	00 = CE Certified 05 = CSA, ATEX, IECEx, CE Approvals



Example Part Number: **DD100191-25-90-01-00**  
4140 Steel, 8 mm probe, 25-0-25 mils, 9.0 meter (non-FFv), DIN mount, CE Certified

PRO LINE Proximity Drivers

Lifetime Warranty on Materials & Workmanship

www.ctconline.com



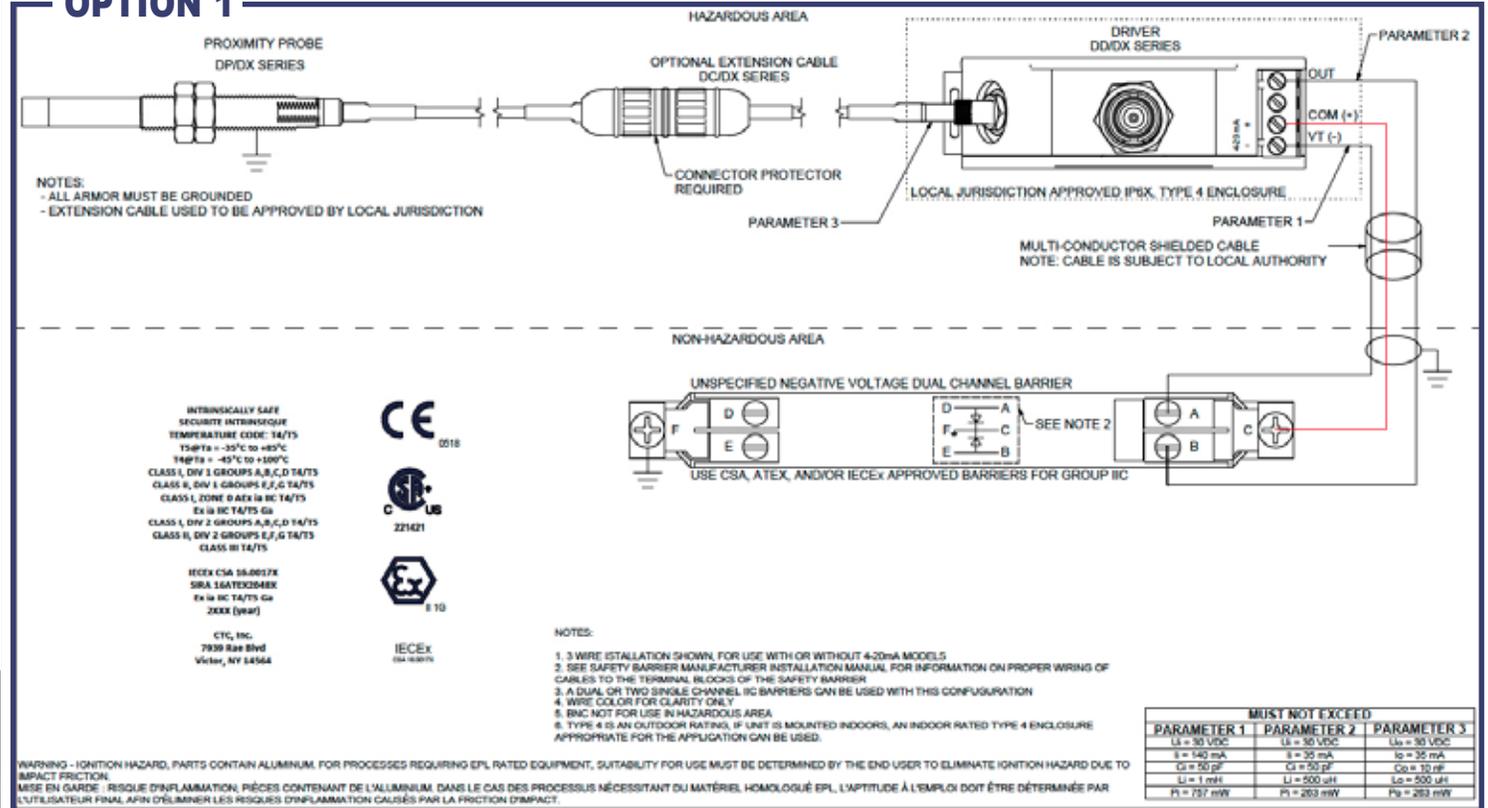
PROTECTION & RELIABILITY INSTRUMENTS

# Proximity Drivers - PRO Line

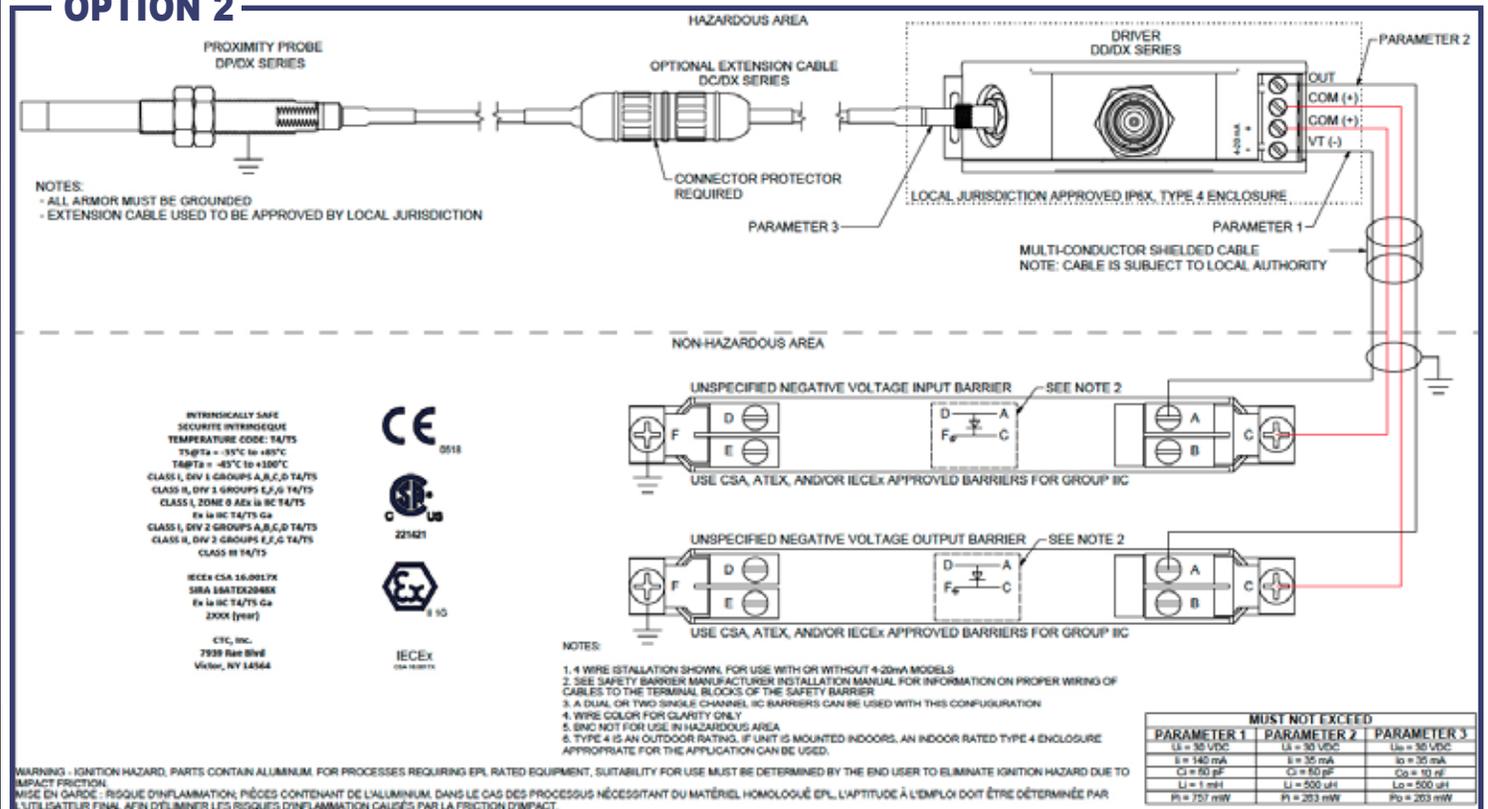
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## INSTALLATION DRAWINGS FOR HAZARDOUS AREAS

### OPTION 1



### OPTION 2



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