OVERVIEW
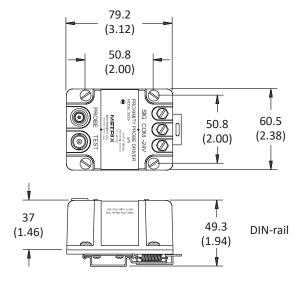
Metrix Proximity probe drivers are direct replacements for the Bently Nevada 3300 Series Proximitors™* with added features of a Valox housing and BNC jacks for local data collection or analysis. Metrix proximity probe drivers are fully compliant with API 670 specifications and third party approvals are standard.

The baseplate mounting holes are identical (requiring no field backplate drilling), DIN rail mounting is optional. Operating on the eddy current principle, these non-contact sensors sense shaft conditions with excellent resolution and stability. Motions as small as one micron (40 micro - inches) and up to 2.0 mm (80 mils) can be measured.

A complete proximity probe system consists of a probe, extension cable and solid state proximity probe driver assembly. The 5533 Proximity Probe Driver has a convenient BNC signal jack for local analysis.

* Proximitor is a registered trademark of Bently Nevada Co.

WEIGHT & DIMENSIONS

Weight: 0.5 kg (1.1 lb)
Dimensions in mm [inches]

SPECIFICATIONS

Standard Target Material	AISI 4140 Steel. If other material used, contact factory.
Power	-18 V_{DC} to -26 V_{DC}, 8-10 mA (nom.)
Sensitivity	-8 mV/μm (-200mV/mil), +/- 5%, -4 mV/μm (-100mV/mil) for 11 mm probe
Non-linearity	Maximum 0.015 mm (0.6 mils) departure from straight line over 2.0 mm (80 mil) range @ 22°C (for 5 & 8 mm tip dia.) **For 11 mm probe driver:** 4.0 mm (140 mils) range at 22°C, 20 to 160 mils
Frequency Response	0-10 kHz, +/- 5%
Temperature Limits	-51°C to +100°C
Isolation	500 V_{RMS}, circuit to ground
Interchangeability Error	Maximum 8.5% change in sensitivity when probe, cable and/or driver are randomly interchanged
Housing	VALOX® polymer with internal RFI/EMI spray shielding potted
Hazard rating	Intrinsically safe CSA certified for Class I, (Grps A-D) when connected to a 10,000 series probe and cable and wired with an approved barrier

*VALOX is a registered trademark of GE.

ORDERING INFORMATION
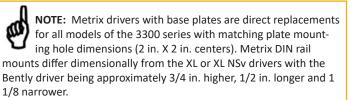
New Installation

Use the Model 5533 in the appropriate system length and mounting preference.

5533 PROBE DRIVER		

FOR 10000 SERIES TRANSDUCERS
5533-A-BB

A		Mounting
	0	Baseplate
	1	35 mm DIN rail
B		System Length
0	3	5 m system
0	4	9 m system

FOR 7200 SERIES TRANSDUCERS
5533-A-BB

A		Mounting
	0	Baseplate (5 mm tip dia. Used with 10001-10008)
	1	35 mm DIN rail (8 mm tip dia. Used with 10026 & 10030)
B		System Length
0	3	5 m system (5 mm tip dia. Used with 10001-10008)
0	4	9 m system (8 mm tip dia. Used with 10026 & 10030)
A		Mounting
	0	Baseplate (11 mm tip dia. Used with 10037-10042)
	1	35 mm DIN rail (11 mm tip dia. Used with 10037-10042)
B		System Length
1	3	5 m system (11 mm tip dia. Used with 10037-10042)
1	4	9 m system (11 mm tip dia. Used with 10037-10042)

FOR 3300 SERIES TRANSDUCERS *
MX330100-AA-BB-C OR MX330180-AA-BB-C

A		System Length
5	0	5 m system
9	0	9 m system
B		Agency Approval
0	0	none
0	5	yes
C		Mounting
	0	Baseplate
	1	DIN rail

* For 3300 series - Model MX330100; For 3300 XL series - Model MX330180

> **NOTE:** Metrix drivers with base plates are direct replacements for all models of the 3300 series with matching plate mounting hole dimensions (2 in. X 2 in. centers). Metrix DIN rail mounts differ dimensionally from the XL or XL NSv drivers with the Bently driver being approximately 3/4 in. higher, 1/2 in. longer and 1 1/8 narrower.

FOR 3309 XL NSv SERIES TRANSDUCERS
MX330980 -AA-BB-C

A		System Length
5	0	5 m system
7	0	7 m system
B		Agency Approval
0	0	none
0	5	yes
C		Mounting
	0	Baseplate
	1	DIN rail

FOR 3000 SERIES TRANSDUCERS
5533 -A-BB

15 ft. System Length		
A		Mounting
	0	Baseplate
	1	35 mm DIN rail
B		Tip Diameter
0	5	0.190 (737=flatbase for 15 ft.)
0	7	0.300 (735=flatbase for 15 ft.)

20 ft. System Length		
A		Mounting
	0	Baseplate
	1	35 mm DIN rail
B		Tip Diameter
0	6	0.190
0	8	0.300

Replacements

If replacing an existing Bently Nevada Proximitor®, add the prefix MX to the model number of that driver and add the suffix - 0 (if baseplate or - 1 if DIN rail mount required.

Series	Add Prefix	BNC Model	Add Mounting[1]
3300	MX	330100- XXX[2]	X
3300 XL	MX	330180- XX-XX[3]	X
3309 NSV	MX	330980- XX-XX[3]	X

Notes:
1. Add Mounting -0 if baseplate;-1 if DIN rail (MX baseplate mounting holes the same)
2. XXX Designates system length. Ex: 090= 9 mts, 015= 15 ft
3. First XX = system length; second XX = approvals (00 = none; 05 = yes)

Calibrated to 4140 SS System. Please advise factory if other material is used.

METRIX