

APTER POWER PRODUCT MANUAL

330878-X0-00 MOD:177889-01

3300 XL 50 mm Proximito Sensor with MOD marking

The 330878-X0-00 MOD:177889-01 is supplied as a Bently Nevada 3300 XL 50 mm Proximito Sensor marking. Official Datasheet 174014 identifies 330878 as the Proximito Sensor family; the X0 length/mounting field and MOD 177889-01 are nonstandard details that require the applicable modification drawing.

The Proximito Sensor powers a matched 3300 XL 50 mm probe circuit, conditions the returned eddy-current signal, and produces a voltage proportional to the gap between the probe tip and a conductive target. The large linear range supports turbine differential expansion and other large-displacement measurements.

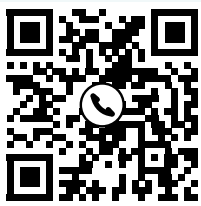
Manufacturer	Bently Nevada
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Large linear range. MOD-controlled configuration.

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SCAN FOR PRODUCT & QUOTE
330878-X0-00 MOD:177889-01

1. Product Overview and Identity

The 330878-X0-00 MOD:177889-01 is supplied as a Bently Nevada 3300 XL 50 mm Proximito Sensor marking. Official Datasheet 174014 identifies 330878 as the Proximito Sensor family; the X0 length/mounting field and MOD 177889-01 are nonstandard details that require the applicable modification drawing.

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Model Configuration

Code	Officially supported interpretation
330878	3300 XL 50 mm Proximito Sensor family
X0	Nonstandard length/mounting code; not decoded in the current standard table
00	No-approvals standard code
MOD 177889-01	Modification identifier; requires the official MOD drawing

Key Features

- Official 330878 50 mm Proximito Sensor family
- Conditions a large-range eddy-current displacement signal
- Supports standard panel or DIN family construction
- MOD-specific details explicitly separated from standard published data

2. Technical Specifications

Only Bently Nevada-published family or exact-part information is stated. Nonstandard, placeholder, legacy-style, or MOD-controlled fields are identified rather than inferred.

Parameter	Verified value or limitation
Product Type	3300 XL 50 mm Proximity Sensor
Standard Family System Lengths	5.0 m or 9.0 m
Standard Mounting Choices	Panel mount or 35 mm DIN mount
Matched-System Linear Range	27.9 mm (1100 mil)
Nominal Average Scale Factor	394 mV/mm (10 mV/mil)
Recommended Minimum Flat Target	102 mm (4.0 in) diameter
Maximum Field Wiring Length	305 m (1000 ft), subject to frequency-response limits
Standard Agency Code 00	No approvals
Exact X0 / MOD Configuration	Not published in Datasheet 174014 Rev. L
Exact MOD Dimensions and Mass	Not separately published

Configuration-Control Note

The current standard order format is 330878-AA-BB with AA options 50, 51, 90, or 91. X0 and MOD 177889-01 are not decoded by Datasheet 174014; use the physical nameplate and MOD drawing as controlling records.

3. Functions, Applications and Components

Core Functions

- Supplies and conditions the matched 50 mm transducer circuit
- Converts target gap into a monitoring voltage
- Supports large axial-displacement and differential-expansion measurement
- Interfaces the transducer system to the machine monitoring channel

Application Areas

Application	System role
Large Steam Turbines	Conditions differential-expansion measurements
Axial Position Monitoring	Measures large target displacement within the matched linear range
Turbine Commissioning	Provides a conditioned voltage for gap and movement checks
MOD-Controlled Installations	Supports documented site-specific configurations when the MOD drawing is available

Compatible Components

- 3300 XL 50 mm proximity probe matched to the documented system length
- 3300 XL 50 mm extension cable where required to complete the system length
- Panel or DIN mounting hardware specified by the exact MOD configuration
- Compatible Bently Nevada monitor input and AISI 4140 target or approved calibration target

Lifecycle Status

Baker Hughes publishes Datasheet 174014 Rev. L for standard 330878 sensors. MOD 177889-01 configuration control remains dependent on the physical nameplate and official modification documentation.

4. Installation Precautions

- Do not assign 5 m, 9 m, panel, or DIN meaning to X0 without the MOD drawing
- Match probe plus extension-cable length to the sensor calibration
- Verify target material and maintain the published minimum target size
- Observe wiring, grounding, approval, and enclosure requirements
- Record the MOD drawing revision during commissioning

STOP - Verify before installation

The current standard order format is 330878-AA-BB with AA options 50, 51, 90, or 91. X0 and MOD 177889-01 are not decoded by Datasheet 174014; use the physical nameplate and MOD drawing as controlling records.

Use the physical nameplate and current Bently Nevada documentation as the controlling records.

5. Official Source and Use Notice

Official source

Baker Hughes / Bently Nevada 3300 XL 50 mm Proximity Transducer System Datasheet 174014 Rev. L

Apter Power product page

<https://www.apterpower.com/Bently-Nevada/330878-x0-00-mod-177889-01>

Use Notice

This original Apter Power reference is prepared from the named Bently Nevada source. It is not a manufacturer publication and does not replace the official datasheet, physical nameplate, certificate, MOD or legacy drawing, installation instructions, or machine-builder documentation.

ASK FOR QUOTE

For availability and quotation details, visit www.apterpower.com or contact sales13@apterpower.com.