

330878-X1-00-MOD-177889-01

Modified 3300 XL 50 mm Proximitior Sensor

Bently Nevada 330878-X1-00-MOD-177889-01 identifies a modification-controlled 3300 XL 50 mm Proximitior Sensor. X1 and MOD 177889-01 are not decoded in the current public standard ordering

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

Bently Nevada 3300 XL 50 mm

PART

330878-X1-00-MOD-177889-01

DOCUMENT STATUS

Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

330878-X1-00-MOD-177889-01 provides modification-controlled signal conditioning for a matched 3300 XL 50 mm proximity-transducer chain.



3300 XL 50 mm Proximity family



27.9 mm nominal linear range



394 mV/mm nominal scale factor



Special X1 / MOD 177889-01 configuration

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
330878-X1-00-MOD-177889-01 product assembly	Matched host system
Documented field interfaces	Approved configuration record

ENGINEERING CONTEXT

The public family data defines the 330878 measurement performance, while the X1/MOD build remains controlled by the unit nameplate and manufacturer record. Commissioning therefore verifies every component, total length, mounting, calibration and monitor interface without inference.

TECHNICAL DATA

PARAMETER	VALUE	PARAMETER	VALUE
Base product family	330878 3300 XL 50 mm Proximitar Sensor	Supply with barriers	-23 to -26 Vdc
Special execution	X1 / MOD 177889-01 - verify nameplate and factory record	Output resistance	50 ohm
Approval position	00	Field wiring	16 to 24 AWG three-conductor shielded triad recommended
Accepted input	One 3300 XL 50 mm probe and extension cable	Minimum flat target	102 mm diameter
Nominal linear range	27.9 mm	Factory target	AISI 4140 steel
Range interval	Approximately 1.3 to 29.2 mm from target	System lengths in standard family	5 m or 9 m
Average scale factor	394 mV/mm nominal	Minimum bend radius	25.4 mm
Supply without barriers	-17.5 to -26 Vdc, 12 mA maximum	Connector torque	Finger tight; 0.565 N m maximum

RELATED GE PRODUCT PAGES

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Bently Nevada
3500-25-149369-01-135473-01
- 2

Bently Nevada 3500-40m-176449-01
- 3

Bently Nevada 3500-42m-176449-02
- 4

Bently Nevada 3500-45-176449-04
- 5

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- 6

Bently Nevada
330105-02-12-10-02-05
- 7

Bently Nevada
330106-05-30-10-02-05
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Bently Nevada 330130-080-00-00
- 9

Bently Nevada 330180-50-00

TECHNICAL NOTE

Treat X1 and MOD 177889-01 as a special configuration. Do not decode X1 as a standard 50/51/90/91 option or substitute a standard 330878. Confirm the complete nameplate, factory modification record, total electrical length, mounting, calibration target and monitor scaling.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Steam-turbine differential expansion

Measures rotor/casing growth over a long range.

Large-displacement monitoring

Provides non-contact position measurement.

Modification-controlled replacement

Retains the complete X1/MOD identity.

Matched 50 mm system service

Preserves probe, cable, target and Proximitor matching.

PRODUCT PRECAUTIONS

1

Confirm the complete 330878-X1-00-MOD-177889-01 nameplate and factory record.

2

Place the turbine and monitoring channel in the approved maintenance state.

3

Isolate monitor power and record bias, polarity, scaling and alarms.

4

Record the actual total system length, mounting and every matched component.

5

Protect ClickLoc connections and maintain the 25.4 mm bend radius.

6

Restore target geometry, calibration, shielding, grounding and monitor configuration.

7

Review live bias and diagnostics after controlled energization.

8

Traverse the documented range and record scale, polarity and alarm response before release.

ENGINEER FAQ

Q1

How is the exact 330878-X1-00-MOD-177889-01 execution identified?

Retain the full 330878-X1-00-MOD-177889-01 identity; X1 is modification-controlled.

Q2

What documented function does 330878-X1-00-MOD-177889-01 perform?

It conditions one matched 3300 XL 50 mm probe and extension cable for long-range displacement measurement.

Q3

Which installed system must be matched before fitting 330878-X1-00-MOD-177889-01?

Match the actual probe, extension cable, total electrical length, target and monitor channel.

Q4

Which interfaces must be recorded for 330878-X1-00-MOD-177889-01?

Record mounting, MOD identity, polarity, shield, bias, scaling and alarms.

Q5

What handling controls apply to 330878-X1-00-MOD-177889-01?

Isolate the monitor circuit, protect ClickLoc connectors and maintain bend radius.

Q6

What must be restored after installing 330878-X1-00-MOD-177889-01?

Restore the factory MOD-controlled build, target geometry, gap and monitor configuration.

Q7

What evidence confirms 330878-X1-00-MOD-177889-01 is ready for service?

Retain live bias, full-range traversal, scale-factor and alarm-test results.

Q8

Which manufacturer record supports the 330878-X1-00-MOD-177889-01 page?

Bently Nevada publication 174014 Rev. L supports the 330878 family; the exact X1/MOD execution requires the unit's factory record.

RELATED APTER POWER PAGES

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SOURCE

3300 XL 50 mm Proximity Transducer System Datasheet | Bently Nevada publication 174014 Rev. L; special build requires factory MOD record

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