

INDUSTRIAL AUTOMATION PRODUCT

330878-X1-00-MOD-177889-01

Modified 3300 XL 50 mm Proximity Sensor

Bently Nevada 330878-X1-00-MOD-177889-01 identifies a modification-controlled 3300 XL 50 mm Proximity Sensor. X1 and MOD 177889-01 are not decoded in the current public standard ordering table, so the complete nameplate and factory modification record govern the exact build.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	Bently Nevada 3300 XL 50 mm
Part number	330878-X1-00-MOD-177889-01
Document status	Controlled product and system reference

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING 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.

System Role and Architecture

Bently Nevada 330878-X1-00-MOD-177889-01 identifies a modification-controlled 3300 XL 50 mm Proximito Sensor. X1 and MOD 177889-01 are not decoded in the current public standard ordering table, so the complete nameplate and factory modification record govern the exact build.

FUNCTION 1
3300 XL 50 mm Proximito family

FUNCTION 2
27.9 mm nominal linear range

FUNCTION 3
394 mV/mm nominal scale factor

FUNCTION 4
Special X1 / MOD 177889-01 configuration

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	Bently Nevada 3300 XL 50 mm
02	Matched extension cable and ClickLoc connector loop
03	3300 XL Proximito Sensor host channel
04	AISI 4140 steel target or approved equivalent

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Bently Nevada 3300 XL 50 mm
Interface role	Modified 3300 XL 50 mm Proximito Sensor
Field / power context	The public family data defines the 330878 measurement performance, while the X1/MOD build
Commissioning evidence	Identity, gap, polarity, response and alarm diagnostics recorded

INSTALLATION AND CONNECTION CHECKS

- 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.

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Base product family	330878 3300 XL 50 mm Proximator 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

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

2 Bently Nevada 330106-05-30-10-02-05

3 Bently Nevada 330130-080-00-00

4 Bently Nevada 330180-50-00

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

6 Bently Nevada 3500-40m-176449-01

7 Bently Nevada 3500-42m-176449-02

8 Bently Nevada 3500-45-176449-04

9 General Electric ic693chs398

ENGINEERING BOUNDARY

Confirm 330878-X1-00-MOD-177889-01 from the actual nameplate and factory modification record; verify total length, mounting, 50 mm probe and cable, target, gap, polarity, shielding, scaling and controlled full-range test evidence before commissioning.

PRE-INSTALLATION CHECKS

- 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.

Applications and Engineering Context

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 Proximator matching.

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	330878-X1-00-MOD-177889-01 recorded
Host / carrier	Bently Nevada 3300 XL 50 mm
Physical interface	Exact identity, installed position and every connected interface matched
Configuration	Recorded hardware and software configuration restored
Functional proof	Diagnostics and controlled functional response recorded

IMPORTANT NOTICE

Confirm 330878-X1-00-MOD-177889-01 from the actual nameplate and factory modification record; verify total length, mounting, 50 mm probe and cable, target, gap, polarity, shielding, scaling and controlled full-range test evidence before commissioning.

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

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

View Bently Nevada 330105-02-12-10-02-05 page

2

Bently Nevada 330106-05-30-10-02-05

View Bently Nevada 330106-05-30-10-02-05 page

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Bently Nevada 330130-080-00-00

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Bently Nevada 330180-50-00

View Bently Nevada 330180-50-00 page

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

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Bently Nevada 3500-40m-176449-01

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Bently Nevada 3500-42m-176449-02

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Bently Nevada 3500-45-176449-04

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General Electric ic693chs398

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MANUFACTURER SOURCE RECORD

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

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RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.