

330850-51-CN

25 mm Proximitior Sensor

Bently Nevada 330850-51-CN is a DIN-mounted 3300 XL 25 mm Proximitior Sensor for differential-expansion and large-range position monitoring. The CN suffix is retained as a controlled marking and must be verified from the supplied unit.

BRAND	Bently Nevada	MODEL	330850-51-CN
PRODUCT	25 mm Proximitior Sensor	FAMILY	Industrial automation
OFFICIAL SOURCE	Bently Nevada 3300 XL 25 mm Proximity Transducer System Datasheet	RECORD	Baker Hughes / Bently Nevada publication 163236 Rev. M

DOCUMENT SCOPE

Official technical evidence, controlled engineering checks, model-specific FAQ and related product navigation.

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Product Overview and Applications

SYSTEM FUNCTION

Bently Nevada 330850-51-CN is a DIN-mounted 3300 XL 25 mm Proximito Sensor for differential-expansion and large-range position monitoring. The CN suffix is retained as a controlled marking and must be verified from the supplied unit.

FUNCTION 1

3300 XL 25 mm signal conditioning

FUNCTION 2

DIN-rail mounting option

FUNCTION 3

Differential-expansion measurement

FUNCTION 4

Controlled CN suffix identity

APPLICATION	ENGINEERING CONTEXT
Differential expansion	Measures rotor-to-casing axial movement through the matched 25 mm system.
Large-range position	Provides conditioned shaft-position output for compatible monitoring channels.
Turbine protection	Supports documented differential-expansion alarm and trip logic.
Channel restoration	Restores a controlled 330850 DIN-mounted signal-conditioning position.

Technical Data and Acceptance

PARAMETER	VERIFIED VALUE
Complete model	330850-51-CN
Sensor family	330850 3300 XL 25 mm Proximito Sensor
Mounting option	51 = DIN-rail mounting
CN control	Retain supplied suffix; verify physical marking
Compatible probes	330851 or 330852 with matching extension cable
Measurement role	Differential expansion and large-range shaft position
Nominal incremental scale factor	0.394 V/mm
Frequency response	0 to 1.47 kHz under published conditions
Output resistance	50 ohm
Power	Negative DC supply within manufacturer-published limits

Acceptance Path

1 IDENTITY

The complete 330850-51-CN marking and revision agree with the engineering record.

2 COMPATIBILITY

System position, companion hardware and interfaces match the manufacturer documentation.

3 CONFIGURATION

Saved values, channel mappings and protection limits are restored without unexplained change.

4 FUNCTIONAL PROOF

Diagnostics and the model-specific controlled test pass without unexplained fault.

Precautions and Model-Specific FAQ

NO.	PRECAUTION	QUESTION	ANSWER
1	Verify the complete 330850-51-CN marking.	What is Bently Nevada 330850-51-CN?	It is a 330850 3300 XL 25 mm Proximito Sensor configuration for differential-expansion service.
2	Retain and verify the CN suffix.		
3	Use only a compatible 25 mm probe and extension cable.	Which mounting option applies to Bently Nevada 330850-51-CN?	Order option 51 identifies the DIN-rail mounting configuration in the current 330850 table.
4	Confirm DIN-rail mounting and electrical isolation.		
5	Preserve the documented target geometry and material.	How should the CN suffix be handled for Bently Nevada 330850-51-CN?	Retain CN exactly and verify the supplied approval marking; the current public table does not decode CN.
6	Provide the correct negative DC supply.		
7	Set the static gap with the current manufacturer procedure.	Which probe family is compatible with Bently Nevada 330850-51-CN?	Use it only with the documented 330851 or 330852 probe and matching extension cable.
8	Verify polarity, scale factor, travel and alarm action before release.		

Related Products on Apter Power

MODEL	APTER POWER PAGE
Bently Nevada 330101-00-48-10-02-00	View Bently Nevada 330101-00-48-10-02-00
Bently Nevada 330101-00-50-10-02-00	View Bently Nevada 330101-00-50-10-02-00
Bently Nevada 330101-00-52-05-01-05	View Bently Nevada 330101-00-52-05-01-05
Bently Nevada 330101-00-53-10-12-05	View Bently Nevada 330101-00-53-10-12-05
Bently Nevada 330101-00-55-05-11-00	View Bently Nevada 330101-00-55-05-11-00
Bently Nevada 330101-00-58-10-02-CN	View Bently Nevada 330101-00-58-10-02-CN

FAQ, Related Products and Sources

QUESTION	ANSWER
What power applies to Bently Nevada 330850-51-CN?	The 25 mm Proximitors family uses the manufacturer-published negative DC supply limits.
What nominal scale factor applies to Bently Nevada 330850-51-CN?	The matched 25 mm system publishes a nominal incremental scale factor of 0.394 V/mm.
Which application is typical for Bently Nevada 330850-51-CN?	The system is designed for differential-expansion and other large-range shaft-position measurements.
What confirms commissioning of Bently Nevada 330850-51-CN?	Verify the full marking, DIN mounting, compatible probe chain, target, gap, polarity, scale factor and channel response.

Related Products on Apter Power

MODEL	APTER POWER PAGE
Bently Nevada 330101-00-59-15-02-05	View Bently Nevada 330101-00-59-15-02-05
Bently Nevada 330101-00-60-05-02-00	View Bently Nevada 330101-00-60-05-02-00
Bently Nevada 330101-00-60-10-02-00	View Bently Nevada 330101-00-60-10-02-00
Bently Nevada 330101-00-60-10-02-05	View Bently Nevada 330101-00-60-10-02-05
Bently Nevada 330101-00-60-90-01-05	View Bently Nevada 330101-00-60-90-01-05
Bently Nevada 330101-00-61-15-02-CN	View Bently Nevada 330101-00-61-15-02-CN

MANUFACTURER SOURCE RECORDS

Bently Nevada 3300 XL 25 mm Proximity Transducer System Datasheet - Baker Hughes / Bently Nevada publication 163236 Rev. M

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