

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
Complete model	330850-51-CN
Product role	25 mm Proximitior Sensor
System family	Industrial automation
Source record	Baker Hughes / Bently Nevada publication 163236 Rev. M

DOCUMENT SCOPE

Model identity, official technical data, model-specific applications, precautions, FAQ and controlled acceptance records.

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Technical Specifications

PARAMETER	VERIFIED VALUE
Complete model	330850-51-CN
Sensor family	330850 3300 XL 25 mm Proximity 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

ENGINEERING BOUNDARY

Publication 163236 defines the 330850 family and DIN mounting option but does not decode CN. Match the sensor only with the approved 25 mm probe and extension cable, then verify supply, target, gap and channel scaling.

Related Products on Apter Power

MODEL	APTER POWER PAGE
Bently Nevada 330101-00-28-10-02-05	View Bently Nevada 330101-00-28-10-02-05
Bently Nevada 330101-00-28-20-02-CN	View Bently Nevada 330101-00-28-20-02-CN
Bently Nevada 330101-00-29-10-02-00	View Bently Nevada 330101-00-29-10-02-00
Bently Nevada 330101-00-30-10-01-00	View Bently Nevada 330101-00-30-10-01-00

System Role and Common Applications

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.

ACCEPTANCE DUTY
Confirm identity, interface, companion hardware, configured values and controlled functional response before release.

Engineering Precautions and FAQ

NO.	PRECAUTION
1	Verify the complete 330850-51-CN marking.
2	Retain and verify the CN suffix.
3	Use only a compatible 25 mm probe and extension cable.
4	Confirm DIN-rail mounting and electrical isolation.
5	Preserve the documented target geometry and material.
6	Provide the correct negative DC supply.
7	Set the static gap with the current manufacturer procedure.
8	Verify polarity, scale factor, travel and alarm action before release.

QUESTION	ANSWER
What is Bently Nevada 330850-51-CN?	It is a 330850 3300 XL 25 mm Proximitors Sensor configuration for differential-expansion service.
Which mounting option applies to Bently Nevada 330850-51-CN?	Order option 51 identifies the DIN-rail mounting configuration in the current 330850 table.
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.
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.

Related Products on Apter Power

MODEL	APTER POWER PAGE
Bently Nevada 330101-00-30-10-02-00	View Bently Nevada 330101-00-30-10-02-00
Bently Nevada 330101-00-30-10-02-05	View Bently Nevada 330101-00-30-10-02-05
Bently Nevada 330101-00-30-90-02-05	View Bently Nevada 330101-00-30-90-02-05
Bently Nevada 330101-00-31-15-02-05	View Bently Nevada 330101-00-31-15-02-05
Bently Nevada 330101-00-31-20-02-05	View Bently Nevada 330101-00-31-20-02-05

FAQ, Related Products and Official Sources

QUESTION	ANSWER
What power applies to Bently Nevada 330850-51-CN?	The 25 mm Proximitor 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.

MODEL	APTER POWER PAGE
Bently Nevada 330101-00-32-05-01-05	View Bently Nevada 330101-00-32-05-01-05
Bently Nevada 330101-00-34-10-02-05	View Bently Nevada 330101-00-34-10-02-05
Bently Nevada 330101-00-35-10-01-05	View Bently Nevada 330101-00-35-10-01-05

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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