330850-91-05

3300 XL 25 mm din-rail Proximitor Sensor

Conditioned voltage proportional to large target displacement

PRODUCT SNAPSHOT

BRAND	FAMILY
Bently Nevada	3300 XL 25 mm Proximity Transducer System
PART	ORIGIN / HS
330850-91-05	USA / 8537101190

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PRODUCT OVERVIEW

Conditioned voltage proportional to large target displacement

1. Uses a nine-metre din-rail configuration
2. Drives the matched 25 mm eddy-current probe
3. Linearizes the large-range displacement response
4. Supplies the conditioned signal to a compatible monitor

SYSTEM COMPONENTS

- 3300 XL 25 mm probe
- matched 25 mm extension cable
- negative DC supply and field wiring
- compatible displacement monitor

TECHNICAL NOTE

Confirm the nine-metre system, din-rail hardware and multiple approvals; restore supply polarity, shield termination, scale and full-travel alarm settings.

TECHNICAL DATA

PARAMETER	VALUE
Sensor model	330850
System length	9.0 m (29.5 ft)
Mounting	DIN-rail
Agency approval option	Multiple approvals
Sensor material	A380 aluminum
Probe and cable system length	9.0 m
Power without barriers	-17.5 to -26 V DC; 12 mA maximum
Power with barriers	-23 to -26 V DC

PARAMETER	VALUE
Supply sensitivity	<2 mV/V
Output resistance	50 Ohm
Field-wire conductor range	0.2 to 1.5 mm2 (16 to 24 AWG)
Maximum field-wire length	305 m (1000 ft)
Linear range	12.7 mm (500 mils)
Linear-range limits	0.63 to 13.33 mm (25 to 525 mils)
Average scale factor	0.787 V/mm (20 mV/mil)
Frequency response	0 to 2.7 kHz; +0/-3 dB

ENGINEERING NOTE

Confirm the nine-metre system, din-rail hardware and multiple approvals; restore supply polarity, shield termination, scale and full-travel alarm settings.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
133442-01	Related Bently Nevada product	View 133442-01 page
3500-62	Related Bently Nevada product	View 3500-62 page
3500-50M-286566-02-28806...	Related Bently Nevada product	View 3500-50M-286566-02-28806... page
3500-45-140072-04	Related Bently Nevada product	View 3500-45-140072-04 page
330130-085-02-05	Related Bently Nevada product	View 330130-085-02-05 page
330130-040-02-05	Related Bently Nevada product	View 330130-040-02-05 page
330180-90-00	Related Bently Nevada product	View 330180-90-00 page
125840-01	Related Bently Nevada product	View 125840-01 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Differential-expansion monitoring

Uses a nine-metre din-rail configuration

Large axial-position channel

Drives the matched 25 mm eddy-current probe

Rotor and valve travel measurement

Linearizes the large-range displacement response

25 mm electronics renewal

Supplies the conditioned signal to a compatible monitor

PRODUCT PRECAUTIONS

1. Verify 330850-91-05, nine-metre system length and din-rail execution before work.
2. Place the monitored machine and displacement channel in the approved maintenance state.
3. Isolate negative DC power and label power, common and output conductors.
4. Record probe, extension-cable and monitor identities before disconnecting the sensor.
5. Use ESD controls and protect the terminals and mounting pad from damage.
6. Match only a documented 25 mm probe and cable combination totaling nine metres.
7. Restore gap, scale, polarity and alarm configuration from the approved record.
8. Sweep the target through the controlled measurement range and verify monitor response.

ENGINEER FAQ

Q1 Does 330850-91-05 match 3300 XL 25 mm probe in a Differential-expansion monitoring installation?

Verify the complete 330850-91-05 marking, the documented 3300 XL 25 mm Proximity Transducer System position and the installed 3300 XL 25 mm probe before fitting the assembly.

Q2 How should 330850-91-05 be wired when it must uses a nine-metre din-rail configuration?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 330850-91-05; then continuity-test the affected path.

Q3 Which 3300 XL 25 mm Proximity Transducer System records should be captured before removing 330850-91-05?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 330850-91-05 before disconnection.

Q4 What controlled test confirms that 330850-91-05 can drives the matched 25 mm eddy-current probe?

Apply the approved field or simulated stimulus, observe the 3300 XL 25 mm Proximity Transducer System indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which matched 25 mm extension cable condition should be checked when 330850-91-05 reports an abnormal state?

Check the matched 25 mm extension cable supply, seating and connection first, then compare channel diagnostics with the recorded 330850-91-05 baseline.

Q6 Can 330850-91-05 be moved directly into Large axial-position channel without validating compatible displacement monitor?

No. Confirm the compatible displacement monitor, revision, connection scheme and 3300 XL 25 mm Proximity Transducer System configuration before transferring 330850-91-05 to that duty.

Q7 What maintenance evidence is required after 330850-91-05 is used for Rotor and valve travel measurement?

Retain the nameplate record, corrective action, final diagnostics and a controlled rotor and valve travel measurement functional-test result for 330850-91-05.

Q8 How should 330850-91-05 be returned to service in 25 mm electronics renewal?

Restore power under control, verify linearizes the large-range displacement response, exercise the intended signal path and release 330850-91-05 only after the 3300 XL 25 mm Proximity Transducer System remains in its approved operating state.

SOURCE Bently Nevada 3300 XL 25 mm Proximity Transducer System Datasheet | 163236 Rev. M

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