

BENTLY NEVADA

330180-X0-05

Technical Reference

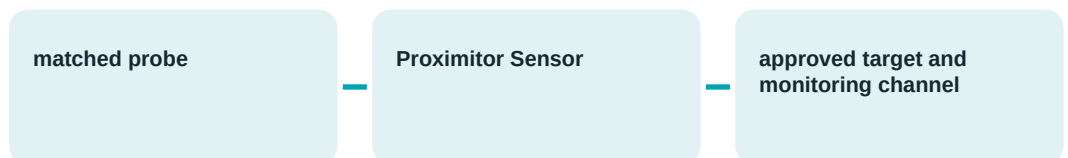
Bently Nevada 330180-X0-05 is a 3300 XL Proximitior Sensor with the -05 multiple-approval option and an unresolved X0 mounting-length code.

FAMILY 3300 XL 8 mm Proximity Transducer System

DOCUMENT Technical Reference

SOURCE 141194 Rev. AN

SYSTEM FLOW



SELECTED RELATED PRODUCTS

01	Bently Nevada 21000-28-05-00-0...	OPEN	02	Bently Nevada 330101-30-61-10...	OPEN
03	Bently Nevada 991-06-70-02-05	OPEN	04	Bently Nevada 330703-000-090...	OPEN
05	Bently Nevada 330101-65-96-10...	OPEN	06	Bently Nevada 330101-08-24-10...	OPEN

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330180-X0-05

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Exact-model identity and parameters

Complete model	330180-X0-05	Supply range	-17.5 Vdc to -26 Vdc for non-incendive operation
Manufacturer	Bently Nevada	Barrier supply range	-23 Vdc to -26 Vdc
Product family	3300 XL 8 mm Proximity Transducer System	Maximum current draw	12 mA
Ordering identity	330180-X0-05	Output resistance	50 ohms
Product family	3300 XL Proximitior Sensor	Maximum field wiring	305 m
AA code	X0 supplied placeholder; verify from the nameplate	Terminal style	SpringLoc terminals
Approval option	05, CSA / ATEX / IECEx	Frequency response	0 to 10 kHz
Transducer input	One 3300 Series 5 mm or 3300 XL 8 mm probe	System linear range	2.0 mm (80 mils)

EVIDENCE BOUNDARY

Do not decode X0 as a standard mounting-length option; verify the installed 330180-X0-05 nameplate and preserve the matched probe, cable and target record.

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System role and engineering applications

ROLE 1

Conditions a matched 5 mm or 8 mm probe system

ROLE 2

Provides a 2.0 mm linear measurement range

ROLE 3

Uses SpringLoc field terminals

ROLE 4

Carries CSA, ATEX and IECEx option code 05

SIGNAL / SERVICE PATH



Shaft vibration

Converts the matched eddy-current probe signal into a proportional monitoring output.

Axial position

Supports non-contacting position measurement when the installed system is engineered accordingly.

Probe-gap setup

Provides the dc gap signal used to establish and verify the mechanical probe gap.

Sensor renewal

Retains the complete probe, cable and Proximitor electrical-length combination.

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Field-work sequence and acceptance controls

01 Confirm the complete 330180-X0-05 marking, including the unresolved X0 code Confirm the complete 330180-X0-05 marking, including the unresolved X0 code.	02 Place the machine and monitoring channel in the approved maintenance state Place the machine and monitoring channel in the approved maintenance state.
03 Isolate the documented supply before disconnecting SpringLoc terminals Isolate the documented supply before disconnecting SpringLoc terminals.	04 Record probe, extension-cable and Proximator pairing before removal Record probe, extension-cable and Proximator pairing before removal.
05 Protect coaxial connectors and observe grounded ESD handling Protect coaxial connectors and observe grounded ESD handling.	06 Verify the -05 approval option against the installed location requirements Verify the -05 approval option against the installed location requirements.
07 Restore polarity and review gap voltage before enabling alarms Restore polarity and review gap voltage before enabling alarms.	08 Complete a controlled response test and retain the final pairing record Complete a controlled response test and retain the final pairing record.

RELATED SERVICE REFERENCES

01 Bently Nevada 330102-00-25-10-02-00 OPEN	02 Bently Nevada 330901-00-55-05-02-05 OPEN
03 Bently Nevada 24701-00-00-15-037-04-02 OPEN	

ACCEPTANCE RECORD

Retain the final 330180-X0-05 identity, connection, configuration, diagnostic and controlled-response result.

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Model-specific questions and decisions

1 What does Bently Nevada 330180-X0-05 do in the transducer chain?

It conditions the matched probe and extension-cable signal for the monitoring channel.

2 Can the X0 section of Bently Nevada 330180-X0-05 be decoded from the standard table?

No. X0 is not a listed standard AA option, so the installed nameplate must resolve it.

3 Which approvals are selected by Bently Nevada 330180-X0-05?

The -05 option covers CSA, ATEX and IECEx approvals.

4 Which probe families can feed Bently Nevada 330180-X0-05?

It accepts one 3300 Series 5 mm or 3300 XL 8 mm probe with its matching extension cable.

5 What is the linear range of Bently Nevada 330180-X0-05?

The matched system provides a 2.0 mm, or 80 mil, linear range.

6 What output scale applies to Bently Nevada 330180-X0-05?

The nominal scale factor is 7.87 V/mm, equivalent to 200 mV/mil.

7 How far can field wiring run from Bently Nevada 330180-X0-05?

The published maximum is 305 m when the documented wiring limits are met.

8 What is the critical renewal rule for Bently Nevada 330180-X0-05?

Keep the probe, cable, system length, target and X0 nameplate identity together as one controlled set.

RELATED MODEL REFERENCES

01	Bently Nevada 330101-00-12-10-02-05	OPEN	02	Bently Nevada 330400-02-00	OPEN
03	Bently Nevada 2300-20-00	OPEN			

SOURCE IDENTIFIER

Baker Hughes 3300 XL 8 mm Proximity Transducer System Datasheet | 141194 Rev. AN

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Technical Reference

Related products and document navigation

These links are navigation aids to other Apter Power product pages. They are not technical evidence for this product.

01	Bently Nevada 330101-00-20-90-02-05	OPEN	02	Bently Nevada 177230-01-02-05	OPEN
03	Bently Nevada 177230-00-01-05	OPEN	04	Bently Nevada 330105-XX-XX-10-02-CN MOD:165...	OPEN
05	Bently Nevada 792414506-04	OPEN	06	Bently Nevada 330101-00-16-10-02-05	OPEN
07	Bently Nevada 330103-00-13-05-02-05	OPEN	08	Bently Nevada 330854-040-25-05	OPEN
09	Bently Nevada 21000-28-10-00-244-04-02	OPEN	10	Bently Nevada 130539-45	OPEN
11	Bently Nevada 330101-00-49-90-12-05	OPEN	12	Bently Nevada 330101-00-20-90-12-05	OPEN

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