

Bently Nevada 330180-X1-05 MOD:145004-75

Complete Product Information

Bently Nevada 330180-X1-05 MOD:145004-75 converts the matched 3300 XL 8 mm probe response into the proportional voltage used by the receiving monitor.

WHAT THIS PRODUCT DOES

Bently Nevada 330180-X1-05 MOD:145004-75 is a modified 3300 XL 8 mm Proximitorsensor that conditions the probe signal for a matched machinery-monitoring channel.

Product characteristic 1 Conditions the eddy-current probe signal for the receiving monitor.	Product characteristic 2 Belongs to the 3300 XL 8 mm matched transducer system.
Product characteristic 3 Uses the multiple-approval execution selected by the final 05 field.	Product characteristic 4 Retains the X1 and MOD code as the complete modified-sensor identity.

PRODUCT-PAGE TECHNICAL SNAPSHOT

Sensor family	3300 XL 8 mm Proximitorsensor
Measurement principle	Eddy-current signal conditioning
Approval option	05, multiple approvals
Matched system sensitivity	7.87 V/mm (200 mV/mil) ±5%

IMPORTANT NOTICE	Confirm the probe and extension-cable lengths required by the connected 3300 XL 8 mm system. Verify signal polarity, scale and dynamic response across the complete chain.
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Features and technical data

TECHNICAL DATA SHOWN ON THE PRODUCT PAGE

Sensor family	3300 XL 8 mm Proximator
Measurement principle	Eddy-current signal conditioning
Approval option	05, multiple approvals
Matched system sensitivity	7.87 V/mm (200 mV/mil) ±5%
Matched linear range	2.0 mm (80 mil)
Frequency response	0 to 10 kHz, complete system
Required chain	Probe, extension cable and Proximator sensor
Configuration control	X1 and MOD 145004-75 retained

FEATURE INTERPRETATION

Product identity Conditions the eddy-current probe signal for the receiving monitor.	System role Belongs to the 3300 XL 8 mm matched transducer system.
Service context Uses the multiple-approval execution selected by the final 05 field.	Return-to-service focus Retains the X1 and MOD code as the complete modified-sensor identity.

SIGNAL OR CONTROL PATH



System performance depends on the exact probe and cable electrical length connected to the Proximator sensor. Power, common, output and shield conductors must return to the correct monitor terminals.

PRODUCT-PAGE TECHNICAL QUESTIONS

What function does 330180-X1-05 MOD:145004-75 perform in the 3300 XL chain?	It conditions the 8 mm probe signal and supplies the proportional output used by the monitor.
Which sensing system must be matched to 330180-X1-05 MOD:145004-75?	Use a 3300 XL 8 mm probe and extension cable that provide the required total electrical length.
Does terminal 05 place 330180-X1-05 MOD:145004-75 in the multiple-approval execution?	Yes. The terminal 05 field identifies the multiple-approval execution.

Common applications

The application groups below reproduce the model-specific uses presented on the product page and connect each use to a practical verification point.

Radial vibration channels Supplies the conditioned voltage used for shaft-relative vibration measurement.	Axial position monitoring Provides a proportional static signal for shaft-position or thrust channels.
Machine protection systems Interfaces the proximity transducer with alarms and protection logic.	Modified sensor replacement Restores an installed X1/MOD execution when the complete identifier and wiring match.

APPLICATION VERIFICATION MAP

Radial vibration channels	Confirm the documented system position and the required operating function.
Axial position monitoring	Compare the restored connection or control path with the approved record.
Machine protection systems	Check the physical interface and the retained configuration before startup.
Modified sensor replacement	Record diagnostics and the final controlled response before release.

INFORMATION CARRIED INTO THE WORK RECORD

Identity record Complete marking and assigned system position.	Connection record Connector, conductor and interface arrangement as found.
Configuration record Controlled settings, application data and option state.	Acceptance record Observed status, response and release decision.

IMPORTANT NOTICE

Use the complete product identifier for every application review; a related product link is not evidence of interchangeability.

APPLICATION QUESTIONS

Does terminal 05 place 330180-X1-05 MOD:145004-75 in the multiple-approval execution?	Yes. The terminal 05 field identifies the multiple-approval execution.
Why can X1 on 330180-X1-05 MOD:145004-75 not be normalized to a standard length code?	Keep X1 in the complete identifier and confirm the installed mounting execution without substituting a standard code.
Does MOD:145004-75 change the replacement process for 330180-X1-05 MOD:145004-75?	Yes. The modification number must match the installed sensor and project record before replacement.

Product precautions and questions

EIGHT MODEL-SPECIFIC PRECAUTIONS

- 01 Match 330180-X1-05 MOD:145004-75 character for character before disconnecting the installed sensor.
- 02 Confirm the probe and extension-cable lengths required by the connected 3300 XL 8 mm system.
- 03 Identify power, common, output and shield conductors before moving wiring.
- 04 Do not assign an unsupported mounting meaning to the X1 field.
- 05 Mount the Proximitor sensor on a clean surface with adequate clearance and cable strain relief.
- 06 Keep probe and extension-cable connectors clean and fully engaged.
- 07 Check supply voltage and static output before enabling the monitor channel.
- 08 Verify signal polarity, scale and dynamic response across the complete chain.

FREQUENTLY ASKED TECHNICAL QUESTIONS

What function does 330180-X1-05 MOD:145004-75 perform in the 3300 XL chain?	It conditions the 8 mm probe signal and supplies the proportional output used by the monitor.
Which sensing system must be matched to 330180-X1-05 MOD:145004-75?	Use a 3300 XL 8 mm probe and extension cable that provide the required total electrical length.
Does terminal 05 place 330180-X1-05 MOD:145004-75 in the multiple-approval execution?	Yes. The terminal 05 field identifies the multiple-approval execution.
Why can X1 on 330180-X1-05 MOD:145004-75 not be normalized to a standard length code?	Keep X1 in the complete identifier and confirm the installed mounting execution without substituting a standard code.

IMPORTANT NOTICE

Confirm the probe and extension-cable lengths required by the connected 3300 XL 8 mm system. Verify signal polarity, scale and dynamic response across the complete chain.

RELEASE CHECKLIST

Identity accepted	The complete product marking and assigned system position agree.
Interfaces accepted	Connections, retention and controlled configuration match the recorded condition.
Response accepted	Diagnostics and the intended technical response have been documented.

FAQ, source record and related models

ADDITIONAL TECHNICAL QUESTIONS

Does MOD:145004-75 change the replacement process for 330180-X1-05 MOD:145004-75?	Yes. The modification number must match the installed sensor and project record before replacement.
What complete-system sensitivity is associated with 330180-X1-05 MOD:145004-75?	A matched 3300 XL 8 mm system has a nominal sensitivity of 7.87 V/mm (200 mV/mil), subject to the documented tolerance.
Which conductors should be identified before removing 330180-X1-05 MOD:145004-75?	Record the power, common, output and shield terminations at both the sensor and receiving monitor.
How is a newly installed 330180-X1-05 MOD:145004-75 accepted?	Confirm supply voltage, stable gap output, correct polarity and proportional dynamic response at the monitor.

MANUFACTURER EVIDENCE RECORD

Manufacturer source	Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet 141194 Rev. AN.
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

RELATED MODELS ON APTERPOWER

Bently Nevada 330851-02-000-080-90-01-05	Related product reference. Review the complete ordering string before selection.
Bently Nevada 24701-28-05-XX-023-04-XX MOD:323933-30-02	Related product reference. Compare the required interface and system position.
Bently Nevada 24701-28-10-XX-149-03-XX MOD:323933-00-02	Related product reference. Confirm the execution independently for the intended task.

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