Bently Nevada 330130-080-03-00

01 Armored Proximity Extension Cable / system role

Product function and operating context

Its connector protector covers the cable junction, while the armor provides a protected cable execution along the route between the measurement point and conditioner.

Electrical length is part of the transducer calibration. An eight-metre extension combined with a one-metre probe lead forms a nine-metre chain for the matching sensor. Physical reach alone is not a sufficient basis for substituting a longer or shorter extension.

Integration checkpoints

- Inventory the complete chain
- Plan the armored route
- Inspect coaxial contacts
- Check dynamic stability

Cable protection	armor and a protected connector junction
Calibration role	retained electrical path between probe and conditioner
System boundary	measurement performance belongs to the matched transducer chain

The cable does not independently establish measurement sensitivity or linear range. Those values belong to the complete matched probe, extension and conditioner under the specified target and calibration conditions. Mixed standard and extended-temperature components must be evaluated against the appropriate complete-system accuracy limits.

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02 Technical operating envelope

Electrical cable length	8.0 m
Cable execution	Armored with connector protector
System family	3300 XL 8 mm

Interface	Coaxial ClickLoc
Matched length example	1.0 m probe + 8.0 m extension = 9.0 m system
Standard cable temperature limit	177 °C maximum, subject to complete-system limits

Values retain their individual conditions and interface boundaries. System ratings apply to the complete matched chain; mechanical and cable selections apply to 330130-080-03-00.

How should 330130-080-03-00 be assessed in a mixed standard and extended-temperature chain?

Use the appropriate limits for the complete mixed system. An extended-temperature probe does not raise the standard cable’s temperature rating or preserve every standard-system accuracy figure.

Why should the ClickLoc connection of 330130-080-03-00 not be tightened with an arbitrary tool torque?

The connector is designed to engage with finger-tight ClickLoc locking. Excessive tool force can damage the interface rather than improve its electrical connection.

Can 330130-080-03-00 provide shaft displacement directly to a PLC analog input?

No. It carries the probe signal within the proximity-transducer chain. The matched conditioner provides the usable measurement output.

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03 System integration and applications

Remote conditioner placement

Provide cable reach within a correctly selected electrical-length chain.

Mechanically protected routing

Use the armored execution where the approved installation calls for cable protection.

Protected probe junctions

The connector protector supports the environmental arrangement at the probe-to-extension connection.

Retained XL 8 mm measurement

Replace a cable within the same matched family while preserving the probe and conditioner length relationship.

System and supply context

The 330130-080-03-00 belongs to the 3300 XL 8 mm transducer system arrangement with its specified field interfaces.

Application boundary

Applications must satisfy the module or transducer boundary and the actual controller, receiver or target conditions.

Can 330130-080-03-00 be selected solely because it reaches the conditioner?

No. Probe lead length plus extension length must equal the conditioner’s specified system length. Check electrical length before assessing physical routing.

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04 Engineering selection decisions

Why does shortening 330130-080-03-00 change more than its routing length?

The extension is part of the calibrated electrical path. Cutting or splicing changes that path and invalidates the intended component combination.

What does the connector protector on 330130-080-03-00 add beyond armor?

It protects the junction environment. Armor and connector protection address different parts of the installation; an armored route does not make an exposed connection environmentally protected.

What should be investigated if changing 330130-080-03-00 shifts the gap voltage?

Check the installed electrical lengths, connector condition and matching probe/conditioner family before mechanically regapping the probe to conceal a configuration error.

Why should cable-junction movement be tested when accepting 330130-080-03-00?

Intermittent connector contact can mimic changing vibration or gap. Confirm stable output while inspecting the supported junction under a safe maintenance condition.

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05 Configuration boundary and references

Lifecycle and support

The current production and manufacturer-support stage of 330130-080-03-00 is unconfirmed. Replacement planning must preserve the supported system and the supplied hardware execution.

Replacement assessment

Record the probe lead and conditioner system lengths. Confirm the retained extension completes the required electrical total before removing the existing cable.

Document roles

Use the original manufacturer excerpt for its preserved technical tables and drawings. This product brief explains selection and system context. The separate installation guide covers preparation, connection, tests and handover; use it together with the applicable manufacturer instructions.

Technical basis

Bently Nevada 3300 XL 8 mm Proximity Transducer System, 141194 Rev. AN.

Related product navigation

- Bently Nevada 9200-01-02-10-00
- Bently Nevada 330850-91-00

These are related references, not confirmed substitutes or an automatically approved assembly.

Product enquiries