Bently Nevada 330130-080-03-05

01 Function and selected configuration

Product function

Bently Nevada 330130-080-03-05 provides the calibrated cable reach between the machine-side probe and a 9 m Proximitor when paired with the corresponding 1.0 m probe.

Selected configuration

The selected 8.0 m extension and a 1.0 m compatible probe add to a 9.0 m electrical chain. This total must agree with the Proximitor calibration; physical reach alone is not a sufficient cable-selection criterion.

Functional path

Compatible probe	8.0 m extension	9 m Proximitor	Monitor channel

Cable reach	8.0 m
Construction	armored cable with connector protector
Calibrated pairing	1.0 m probe for a 9 m chain

The cable uses armored cable with connector protector. Keep the connectors clean, supported and electrically isolated as required by the installation, and route the cable without shortening or splicing its calibrated length.

330130-080-03-05

02 Technical operating envelope

Extension length	8.0 m
Construction	armored cable with connector protector
Center-conductor resistance	1.76 ohm ±0.26 ohm
Outer-conductor resistance	0.53 ohm ±0.11 ohm

Cable capacitance	69.9 pF/m typical
Matching probe for 9 m system	1.0 m
Nominal system scale	7.87 V/mm
Nominal system linear range	2 mm

The cable does not independently set the measurement range or scale factor. Apply the standard 9 m system tolerances after verifying all matched components.

Signal interpretation

Check center and outer conductor continuity separately against 1.76 ohm ±0.26 ohm and 0.53 ohm ±0.11 ohm, respectively.

Interface boundary

The 69.9 pF/m typical capacitance belongs to the cable. Range and scale-factor ratings belong to the complete matched transducer system.

How is the shield path checked on 330130-080-03-05?

Measure outer-conductor continuity separately; its nominal resistance is 0.53 ohm ±0.11 ohm.

Does the protector on 330130-080-03-05 permit mechanical load on the joint?

No. Support the cable so bending and pulling forces are not carried by the coaxial connector.

330130-080-03-05

03 System integration and applications

Nine-metre chain

Combine this 8.0 m extension with the matching 1.0 m probe.

Remote conditioning

Reach a Proximitor position away from the immediate sensing point.

Cable fault isolation

Separate core and shield continuity checks from probe resistance measurements.

Machine wiring renewal

Restore the selected cable route while preserving the calibrated length.

System and supply context

The extension cable links a compatible probe to the Proximitor in the selected electrical-length system.

Application boundary

Keep the complete system family, connector arrangement and total cable length together when assessing replacement.

Can a 0.5 m probe complete a 9 m system with 330130-080-03-05?

No. An 8.0 m extension requires a compatible 1.0 m probe to reach the 9.0 m total.

330130-080-03-05

04 Engineering selection decisions

What does the 03 cable selection add to 330130-080-03-05?

It selects armor and a connector protector around the standard extension-cable arrangement.

Which resistance check applies to the core of 330130-080-03-05?

Measure the disconnected center conductor against 1.76 ohm ±0.26 ohm.

Is 330130-080-03-05 an extended-temperature 330190 cable?

No. It is the standard 330130 extension family; ETR ratings must not be assigned to it.

Why recheck the channel after routing 330130-080-03-05?

Cable handling can disturb the joint or probe connection. A stable static gap and controlled target-response test confirm the assembled chain after routing.

Mechanical support	Avoid pulling at the connector or crushing the cable.
Continuity test	Disconnect the cable before measuring its conductors.

330130-080-03-05

05 Configuration boundary and references

Lifecycle and support

The current production and factory-support status of 330130-080-03-05 is unconfirmed.

Replacement assessment

Retain the matched transducer family, total electrical length and target calibration. Recheck the channel response after replacing a component.

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; it does not replace manufacturer instructions.

Technical basis

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

Related product navigation

- Bently Nevada 990-05-50-02-01
- Bently Nevada 9907-147N 5501-303L

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

Product enquiries