Bently Nevada 330130-080-03-05

01 8 m armored extension and 1 m probe

1 Identify the selected 9 m chain

Record the probe and Proximitor identities before removing the cable. This 8.0 m extension is paired with a 1.0 m probe for a 9.0 m chain. Photograph the route, connector support and shielding arrangement so the replacement preserves both electrical and mechanical conditions.

2 Retain both electrical length and protective construction

Verify the 8.0 m extension, 1.0 m probe and 9 m Proximitor as one matched chain. Preserve the armored cable and connector-protector selection rather than replacing it with a different construction of equal length.

Record	Complete marking and installed position
Comparison	Field labels agree with application assignments
Extension length	8.0 m
Construction	armored cable with connector protector

02 Armored cable protection and route

1 Inspect the machine-to-cabinet path

Place the protection channel in the maintenance state and isolate its power. Inspect the route for abrasion, hot surfaces and strain points. The selected construction is armored cable with connector protector; check the actual protective features rather than substituting a different cable by length alone.

2 Check protection at entries and restraint points

Review abrasion points, hot surfaces and concentrated loads along the route. Armor does not remove the need for connector support and suitable cable restraint at machine and cabinet entries.

Supply evidence	Measured at the device connection
Work condition	Power isolated while wiring is handled
Center-conductor resistance	1.76 ohm ±0.26 ohm
Outer-conductor resistance	0.53 ohm ±0.11 ohm

03 Protected coaxial joint restoration

1 Reconnect the full 8.0 m assembly

Restore the coaxial joints without twisting or loading the contacts. Keep the full 8.0 m cable intact and secure surplus length using an appropriate route. Do not shorten or splice the extension to make it fit the cabinet or machine.

2 Inspect the joint before closing the protector

Check contact condition and full engagement before fitting the connector protector. Route surplus length without cutting or splicing, and make sure the protector does not conceal cable strain at the joint.

Wiring record	Connection-by-connection comparison
Physical inspection	Shield, connector and strain relief checked
Cable capacitance	69.9 pF/m typical
Matching probe for 9 m system	1.0 m

04 Extension-only conductor measurements

1 Measure center and outer paths independently

With the cable disconnected, measure its center conductor against 1.76 ohm ±0.26 ohm and its outer conductor against 0.53 ohm ±0.11 ohm. Record the readings separately from probe resistance. Reconnect to the selected 9 m Proximitor only after inspecting the connector condition.

2 Apply the 8 m cable resistance references

Compare the center reading with 1.76 ohm ±0.26 ohm and the outer reading with 0.53 ohm ±0.11 ohm. Keep these disconnected-extension readings separate from probe resistance and live-system calibration.

Configuration	Approved settings restored
Diagnostic condition	Normal recognition before functional testing
Nominal system scale	7.87 V/mm
Nominal system linear range	2 mm

330130-080-03-05

05 Nine-metre system gap and response

1 Test the assembled 1 m plus 8 m chain

Check static gap with the complete 1.0 m probe and 8.0 m extension assembled. Apply controlled target movement and confirm the intended XL 8 mm scale and monitor indication. Restore alarms only after cable handling no longer changes the reading.

2 Verify stability with the protector and supports fitted

Recheck the gap indication after securing the armored route and connector protector. Use controlled target movement to verify the channel, and investigate any reading change caused by cable handling before restoring alarms.

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

Related product navigation

Bently Nevada 990-04-70-01-00

Bently Nevada 990-05-XX-01-CN

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