Bently Nevada 330130-085-00-05

01 8.5 m extension and 9 m system identity

1 Record the paired 0.5 m probe

Record the probe and Proximitor identities before removing the cable. This 8.5 m extension is paired with a 0.5 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 Check the electrical-length sum before disconnection

Confirm that the 8.5 m extension and 0.5 m probe belong to the selected 9 m Proximitor system. Cable routing distance and physical spare length do not replace this electrical-length check.

Record	Complete marking and installed position
Comparison	Field labels agree with application assignments
Extension length	8.5 m
Construction	standard cable

02 Standard coaxial cable route

1 Inspect the unarmored insulation and supports

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 standard cable; check the actual protective features rather than substituting a different cable by length alone.

2 Protect the cable from abrasion and concentrated loads

Check cabinet entries and machine edges along the full extension route. Preserve the standard insulated construction and support the cable so a bend or clamp does not concentrate load at the coaxial connector.

Supply evidence	Measured at the device connection
Work condition	Power isolated while wiring is handled
Center-conductor resistance	1.87 ohm ±0.28 ohm
Outer-conductor resistance	0.56 ohm ±0.11 ohm

03 Coaxial joints and full-length retention

1 Reconnect without twisting the contacts

Restore the coaxial joints without twisting or loading the contacts. Keep the full 8.5 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 Keep surplus cable without shortening the assembly

Route any surplus length with suitable support and clearance. Cutting or splicing the extension changes the calibrated assembly; keeping only the convenient routing length is not an acceptable installation adjustment.

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	0.5 m

04 Center and outer conductor resistance

1 Measure the disconnected extension separately

With the cable disconnected, measure its center conductor against 1.87 ohm ±0.28 ohm and its outer conductor against 0.56 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 Keep the two resistance readings distinct

Compare the center conductor with 1.87 ohm ±0.28 ohm and the outer conductor with 0.56 ohm ±0.11 ohm. Record which conductor was measured and exclude the probe from this extension-only check.

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

330130-085-00-05

05 Complete 9 m chain response

1 Restore the 0.5 m probe and 8.5 m cable

Check static gap with the complete 0.5 m probe and 8.5 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 Check stability after the route is secured

Compare the gap indication before and after the final cable supports are secured. Accept the complete channel only when cable handling no longer alters the reading and controlled target movement gives the intended response.

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

Related product navigation

- Bently Nevada 330101-00-28-10-02-05
- Bently Nevada 991-25-70-01-01

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