Bently Nevada 21504-00-40-10-02

Engineering Installation, Diagnostic and Acceptance Guide

Bently Nevada 21504-00-40-10-02 is a legacy 7200 family eddy-current proximity probe for non-contact shaft vibration and position measurement. Its exact installed cable and Proximitor relationship must be confirmed from the complete channel record.

01 Work package

Complete model	21504-00-40-10-02
Product type	7200 8 mm proximity probe
Manufacturer	Bently Nevada
Supply condition	New, original product
Technical source	Bently Nevada 7200 Proximity Transducer System original technical information

Field decisions

1 Establish identity

Capture the full marking, installed companion components and baseline before disconnection.

2 Inspect interfaces

Verify mounting, cable, connector, armor, approval and environmental boundaries.

3 Fit the exact chain

Preserve the documented probe-cable-Proximitor or sensor-monitor relationship.

4 Prove response

Use the approved stopped-machine and operating acceptance procedure.

5 Record as left

Save markings, configuration, test values and operating observations.

02 Interface and configuration map

Product type	Legacy 7200 8 mm proximity probe
Measurement principle	Eddy-current non-contact sensing
System role	Passive sensing element in a matched chain
Complete order identity	21504-00-40-10-02
Electrical output	No standalone voltage output
Required companion components	Matching 7200 extension cable and Proximitor Sensor
Target requirement	Conductive target characterized for the installed chain

Mechanical datum	Installed sleeve or port geometry must be retained
Compatibility boundary	Do not infer 3300 XL compatibility from connector appearance
Evidence boundary	Unverified legacy option meanings are not assigned

03 Installation workflow

Confirm the complete marking

Match every field of 21504-00-40-10-02 with the installed record before removal or installation.

Protect sensing and interfaces

Keep the sensing face, connector and cable free from impact, moisture, metal chips and unsupported loading.

Preserve the mechanical datum

Record reach, thread engagement, locknut position and target relationship before disturbing the installed component.

Control the cable route

Maintain approved bend radius, separation and strain relief; do not twist or crush the coaxial path.

Restore the operating point

Use the approved stopped-machine procedure and confirm expected target travel remains in the documented working region.

Prove the complete channel

Verify the as-left electrical reading, monitor indication and operating response before return to service.

Application checks

Radial shaft vibration

Use the approved bearing location and matched transducer chain to observe shaft motion relative to the probe mounting.

Axial position

Orient the probe toward a suitable conductive thrust target and keep expected travel inside the calibrated working region.

Speed or phase reference

Use an approved target feature and monitor configuration when the channel provides a once-per-turn reference.

Maintenance replacement

Preserve the exact mechanical identity, cable construction, system length and approval selection recorded for the installed channel.

04 Diagnostic decision table

How should the legacy order fields of 21504-00-40-10-02 be verified?	Use the complete physical marking and the installed spare-parts record. Do not decode this identity with a current 3300 XL ordering table.
Which extension cable and Proximitor can be used with 21504-00-40-10-02?	Only the documented 7200 family components and total system length should be used. Confirm all three markings before disconnection.
How should the mechanical reach of 21504-00-40-10-02 be preserved?	Record sleeve or port datum, insertion depth, locknut position and stopped-machine gap before removal, then rebuild the same relationship.
Can 21504-00-40-10-02 be mixed with a 3300 XL 8 mm component?	No cross-family substitution should be assumed. A conversion requires a documented complete-system review of probe, cable, Proximitor, monitor and target.

Release review

Legacy relationship	Use the complete physical marking and installed records to establish the matching 7200 chain.
Evidence boundary	No unverified legacy option code or adjacent-family electrical parameter is assigned.
Technical reference	Bently Nevada 7200 Proximity Transducer System original technical information.

Engineering questions

How should the legacy order fields of 21504-00-40-10-02 be verified?	Use the complete physical marking and the installed spare-parts record. Do not decode this identity with a current 3300 XL ordering table.
Which extension cable and Proximitor can be used with 21504-00-40-10-02?	Only the documented 7200 family components and total system length should be used. Confirm all three markings before disconnection.
How should the mechanical reach of 21504-00-40-10-02 be preserved?	Record sleeve or port datum, insertion depth, locknut position and stopped-machine gap before removal, then rebuild the same relationship.
Can 21504-00-40-10-02 be mixed with a 3300 XL 8 mm component?	No cross-family substitution should be assumed. A conversion requires a documented complete-system review of probe, cable, Proximitor, monitor and target.
How should the complete marking of 21504-00-40-10-02 be recorded before removal?	Photograph the full order identity, installed position, companion components and cable route. Save the stopped-machine baseline so the replacement can be returned to the same documented configuration.
Which compatibility check is most important before installing 21504-00-40-10-02?	Confirm that every companion component belongs to the documented 7200 8 mm proximity probe family. Connector fit alone does not establish electrical calibration or mechanical compatibility.
How should cable and connector integrity be tested for 21504-00-40-10-02?	Isolate the channel, inspect contacts for moisture, contamination and damage, verify continuity and insulation with an approved method, and support the cable so the connector carries no tensile load.
What commissioning evidence should be retained for 21504-00-40-10-02?	Retain full markings, mechanical datum, companion identities, wiring or chain-length checks, as-left measurements and the operating response accepted by the maintenance authority.

Acceptance and support

Retain the full marking, installed-chain identities, test readings and approved machine configuration. Confirm the exact offered item and included scope in the written quotation.

Discuss the exact marking and installed application with Apter Power.
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Verified related product references

Related product	84661-96
Related product	330102-00-28-10-02-05

Related product	330104-00-16-10-02-00
Related product	330500-00-01

Commissioning record template

Installed asset	Machine, bearing, channel or cabinet reference
Companion identities	Probe, cable, sensor, interface or monitor markings
Mechanical datum	Mounting reference, reach, alignment or sealing condition
Electrical datum	Chain length, connector, shield, supply or input assignment
Before-work baseline	Gap, bias, vibration, continuity or channel observation
As-left result	Final measured value and functional proof
Approval basis	Applicable drawing, control requirement or site procedure
Handover	Technician, date, revision and maintenance-record location

Handover note

A replacement is complete only after the installed identity, physical interfaces, measured response and configuration record agree. Escalate any mismatch before the channel returns to protection or monitoring service.

Release checklist

Identity accepted	Complete marking agrees with the order, photographs and installed asset record.
Interfaces accepted	Mechanical fit, connector, wiring and companion components match the approved design.
Environment accepted	Temperature, contamination, vibration and route protection remain inside documented limits.
Configuration accepted	Hardware assignment, chain length or supply settings agree with the installed configuration.
Static proof accepted	Gap, bias, output voltage, channel state or continuity result is recorded as applicable.