Bently Nevada 21504-00-40-10-02

Technical Reference and System Integration Map

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 Exact identity and evidence boundary

Exact offered identity	21504-00-40-10-02
Product type	7200 8 mm proximity probe
Manufacturer	Bently Nevada
System or platform	7200 8 mm proximity probe family
Evidence scope	The exact complete identity and 7200 family role are retained; unverified option meanings and adjacent-family electrical values are not assigned to this model.

Technical purpose

21504-00-40-10-02 is a calibrated-chain component from the legacy 7200 family; preserve the exact marking, installed geometry and matching cable/Proximitor combination.

Verified engineering data

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

02 Parameter groups and system relationship

Legacy identity	7200 family probe; retain the complete marking.
Chain boundary	Use only with the documented 7200 cable and Proximitor combination.
Installation datum	Record sleeve or port reach, locknut position and gap before removal.

System integration map

01 **Identity**

Confirm the complete marking and supplied revision before applying any base-family value.

02 **Interfaces**

Match every mechanical, electrical and communication interface to the installed design.

03 **Companion equipment**

Preserve the documented probe, cable, monitor, connector, supply or controller relationship.

04 **Configuration**

Record the installed settings, channel assignment and baseline before replacement.

05 **Acceptance**

Prove the static reading and operating response against the approved maintenance record.

Operating interpretation

21504-00-40-10-02 forms the passive sensing end of a legacy 7200 eddy-current transducer chain. The complete physical marking and installed spare-parts record are the controlling evidence because current 3300 XL option tables do not decode this legacy identity.

Mechanical replacement begins with the installed datum: sleeve or port relationship, insertion depth, locknut position, target geometry and cable route. Preserve the original coaxial path and keep every connector clean, dry and strain relieved.

Electrical performance belongs to the complete 7200 probe-cable-Proximitor combination. After replacement, verify component identities, restored gap or bias, monitor indication and operating response; do not import adjacent-family values to close the test.

Application and compatibility boundaries

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.

03 Diagnostic and acceptance reference

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.

Diagnostic and acceptance reference — continued

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.

Commissioning sequence

01 **Before removal**

Photograph full markings, terminations, companion identities and the installed mechanical datum.

02 **Bench review**

Check the offered item for revision, connector condition and configuration-sensitive differences.

03 **Installation**

Apply the manufacturer mounting, wiring, shielding, ventilation and environmental rules.

04 **Prove and close**

Verify supply, continuity, gap, bias or channel state, compare the operating response with the accepted baseline, and save the as-left record before release.

Technical notes

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 decision log

Identity decision	Exact offered marking accepted / held for clarification
Compatibility decision	Installed interfaces and companion equipment confirmed / action required
Operating proof	Static and dynamic checks accepted / additional test required

04 Field documentation worksheet

Use this model-specific worksheet to keep the offered identity, installed-system evidence and acceptance record together.

Additional engineering questions

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.

Field record

Complete order marking	21504-00-40-10-02
Revision and approval marks	Record from the supplied nameplate or label
Installed system and channel	Record cabinet, rack, slot, monitor or machine location
Companion equipment	Record the matched cable, connector, base, monitor, supply or controller identities
Interface check	Record mechanical fit, terminal assignment, polarity, shielding and communication details
Pre-removal baseline	Record the accepted static reading, channel state and operating response
As-left verification	Record the measured result after installation and the approved acceptance method

Release evidence package

Identity evidence	Nameplate, label and complete-order photographs
Interface evidence	Connector, terminal, cable, mounting and companion-equipment record
Configuration evidence	Installed assignment, setting, revision or chain-length record
Test evidence	Static measurement, channel state and operating-response result
Release evidence	Exceptions, corrective actions, reviewer and approval date

Related Apter Power product references

Related product	330980-70-CN
Related product	330930-040-03-00
Related product	84661-96
Related product	330102-00-28-10-02-05

Discuss the exact marking and installed application with Apter Power.
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