

FIELD GUIDE / CONTROLLED WORK

21505-00-12-05-02

Armored Proximity Probe

Bently Nevada 21505-00-12-05-02 is a 7200-series armored 8 mm standard-mount proximity probe with a 3/8-24 case, 0.5 m integral cable and miniature male coaxial connector. It measures shaft displacement or vibration as part of a matched 7200 transducer system.

BEFORE THE MACHINE IS OPENED

IDENTITY 21505-00-12-05-02	MOUNTING 3/8-24
CABLING 95 ohm coaxial probe lead, miniature male connector and armored route	LOOP Matched 7200-series Proximitorsensor

SAFE-WORK BOUNDARY

Place the monitored rotating machine in the approved safe maintenance state.

A 21505 proximity probe is not an accelerometer. Preserve the 7200-series probe, extension-cable and Proximitors combination during replacement and test the calibrated loop as a system.

Pre-Installation Readiness

Match the physical execution and complete the safe-work record before probe removal.

01 Confirm the 21505 label and 7200-series probe position before disconnection.

02 Place the monitored rotating machine in the approved safe maintenance state.

03 Record the 3/8-24 mounting, 1.2-inch case and zero unthreaded section.

04 Inspect stainless-steel armor and the 0.5 m coaxial lead for damage.

05 Mate the miniature male coaxial connection to the documented cable chain.

06 Keep the installed 7200 extension cable and Proximitor matched to the probe.

07 Energize under control and observe the gap-to-voltage output.

08 Verify the calibrated range and machine-monitor response before release.

PRE-WORK ACCEPTANCE

The model marking, mounting geometry, integral cable, mating connector and matched sensor chain must agree with the installed record before replacement proceeds.

Replacement Sequence

7200 SERIES / 21505-00-12-05-02

1

Confirm the 21505 label and 7200-series probe position before disconnection.

2

Place the monitored rotating machine in the approved safe maintenance state.

3

Record the 3/8-24 mounting, 1.2-inch case and zero unthreaded section.

4

Inspect stainless-steel armor and the 0.5 m coaxial lead for damage.

5

Mate the miniature male coaxial connection to the documented cable chain.

6

Keep the installed 7200 extension cable and Proximitator matched to the probe.

7

Energize under control and observe the gap-to-voltage output.

8

Verify the calibrated range and machine-monitor response before release.

Commissioning and Acceptance

STAGE	ACTION	EXPECTED EVIDENCE
01 Confirm identity	Confirm the 21505 label and 7200-series probe position before disconnection.	Exact article and installed system recorded.
02 Confirm interfaces	Mate the miniature male coaxial connection to the documented cable chain.	Mount, mating cable and connector match the order code.
03 Restore the loop	Energize under control and observe the gap-to-voltage output.	Matched sensor and monitor chain is connected.
04 Prove response	Verify the calibrated range and machine-monitor response before release.	Gap output and affected channel respond under control.

IF THE RESPONSE IS NOT ACCEPTABLE

Recheck the exact probe identity, connector seating, cable route, matched Proximitor length and monitor channel. Do not return the machine to service until a controlled functional test passes.

Diagnostics and Handover

Connection check

Keep the installed 7200 extension cable and Proximitor matched to the probe.

Final proof

Verify the calibrated range and machine-monitor response before release.

RELATED BENTLY NEVADA PRODUCT PAGES

01 Bently Nevada 330980-70-05

02 Bently Nevada 330930-060-03-05

03 Bently Nevada 330180-x1-00-mod-145004-09

04 Bently Nevada 330330-080-01-00

05 Bently Nevada 330330-070-00-00

06 Bently Nevada 330854-080-05

07 Bently Nevada 330851-02-000-080-10-00-00

08 Bently Nevada 330851-01-000-020-10-00-00

09 Bently Nevada 330876-01-50-01-05

HANDOVER RECORD

Retain the exact model, installed position, matched components, cable and connector condition, gap/response evidence and approved channel configuration.

MANUFACTURER SOURCE RECORD

Bently Nevada 7200 Proximity Transducer Systems, 5 mm and 8 mm, Technical/Ordering Information (archived NASA NTRS 19960001274).

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