Bently Nevada 21504-00-12-10-02

Apter Power complete product information

Bently Nevada 21504-00-12-10-02 is a 7200 Series 8 mm standard-mount proximity probe with a 3/8-24 case thread, 1.2 in case and 1.0 m integral lead.

01 / Product role

The 21504 probe senses shaft-to-tip distance as the front end of a 7200 Series proximity transducer chain.

Parameter	Selected configuration
Probe family	7200 Series 8 mm
Mounting thread	3/8-24 UNF
Lead armor	none
Unthreaded length	0.0 in

Installed-system context

Context	Verified use
Measurement role	21504-00-12-10-02 is an 8 mm sensing probe for noncontact shaft position or vibration measurement within a matched 7200 system.
Interface boundary	Pair the probe lead and miniature coaxial connector with a suitable extension cable and 7200 Proximitor.

02 / Exact ordered configuration

Parameter	Selected configuration
Probe family	7200 Series 8 mm
Mounting thread	3/8-24 UNF
Lead armor	none
Unthreaded length	0.0 in
Overall case length	1.2 in
Integral lead	1.0 m nominal
Connector	miniature male coaxial
System length	match probe, extension cable and Proximitor

Option relationship

Its 21504 case is an unarmored 8 mm standard-mount configuration with a 3/8-24 thread. Code 00 selects no unthreaded section; code 12 sets a 1.2 in overall case.

Code 10 selects a nominal 1.0 m integral lead, and 02 provides the miniature male coaxial connector. Route and connect the lead as part of the selected five- or nine-metre system.

Technical reference: Bently Nevada 7200 Proximity Transducer Systems, 5 mm and 8 mm Technical/Ordering Information.

03 / Applications and compatibility

Documented uses

Use	Engineering context
Radial vibration	Observe a shaft target for relative vibration when the installed monitor channel supports the measurement.
Axial position	Place the probe at a documented thrust-position target with a verified mechanical travel envelope.
Shaft average position	Use the configured system to follow mean shaft position in an appropriate bearing arrangement.
Phase reference	Select a target and monitor channel designed to provide a phase reference from the proximity signal.

The separate extension cable and Proximitor establish the calibrated system length. Use the installed target and monitor documentation when setting the probe gap.

Technical questions

Question	Engineering answer
Which sensing system uses 21504-00-12-10-02?	It is a 7200 Series 8 mm proximity probe intended for a matched transducer chain.
What is the mounting thread on 21504-00-12-10-02?	The 21504 standard-mount case uses a 3/8-24 UNF thread.
Does 21504-00-12-10-02 have an unthreaded section?	The 00 option selects 0.0 in unthreaded length.

04 / Installation precautions

Check	Action
Isolation	Make the machine and monitoring channel safe before adjusting the probe.
Thread fit	Check the 3/8-24 UNF opening and locknut against the installed mount.
Case clearance	Confirm the 1.2 in case fits the available mounting depth and target travel.
Lead protection	Route the unarmored 1.0 m lead clear of sharp edges, strain and heat.
Connector care	Keep the miniature male coaxial connection clean and dry while fitting the extension.
Gap acceptance	Set and verify the gap with the matched Proximitor and the machine stopped as required.

Technical notes

Topic	Explanation
Probe configuration	Options 00 / 12 / 10 / 02 select a flush section, 1.2 in case, nominal 1.0 m lead and miniature coaxial connector.
System boundary	Sensing performance applies to the calibrated probe, extension cable, Proximitor and target arrangement.

Technical questions

Question	Engineering answer
What case length is selected for 21504-00-12-10-02?	The 12 option selects a 1.2 in overall case length.
How long is the lead on 21504-00-12-10-02?	Code 10 selects a nominal 1.0 m integral probe lead.
Is the lead of 21504-00-12-10-02 armored?	The 21504 probe family has no stainless steel lead armor.

05 / Supply and service reference

Question	Engineering answer
Which connector is supplied on 21504-00-12-10-02?	The final 02 selects a miniature male coaxial connector.
Does 21504-00-12-10-02 operate as a complete calibrated transducer alone?	The probe requires the appropriate extension cable and 7200 Proximitor to form the calibrated measuring system.

Available unit

Bently Nevada 21504-00-12-10-02; Condition: New, original product. Confirm the 21504 probe and any separately supplied extension cable, Proximitor or mounting accessories in the quotation.

Related product references

Related product	Selection note
Bently Nevada 31000-16-10-15-040-03-02	Separate catalogue reference
Bently Nevada 31000-16-05-00-033-03-02	Separate catalogue reference
Bently Nevada 21504-000-040-10-02	Separate catalogue reference
Bently Nevada 330101-00-10-10-02-00	Separate catalogue reference
Bently Nevada 330101-00-20-10-02-00	Separate catalogue reference
Bently Nevada 330101-00-08-05-02-00	Separate catalogue reference
Bently Nevada 330801-28-20-050-03-02	Separate catalogue reference
Bently Nevada 330880-01-20-058-03-02	Separate catalogue reference

Technical reference: Bently Nevada 7200 Proximity Transducer Systems, 5 mm and 8 mm Technical/Ordering Information.