Bently Nevada 330705-02-18-10-02-05

Complete Product Information

Bently Nevada 330705-02-18-10-02-05 is a 3/8-24 UNF reverse-mount 11 mm probe with a 1.0 m lead for long-range non-contact displacement measurement.

01 Product identity and verified data

Complete model	330705-02-18-10-02-05
Product type	3300 XL 11 mm reverse-mount proximity probe
Manufacturer	Bently Nevada
Technical source	Bently Nevada 3300 XL 11 mm Proximity Transducer System Datasheet, 146256 Rev. T
Probe family	3300 XL 11 mm
Mounting thread	3/8-24 UNF
Mounting form	Reverse mount
Fixed unthreaded option	0.2 in
Fixed case option	1.8 in
Total probe length	1.0 m
Connector	Miniature ClickLoc coaxial connector
Approval selection	Multiple approvals

Engineering purpose

Bently Nevada 330705-02-18-10-02-05 is a 3/8-24 UNF reverse-mount 11 mm probe with a 1.0 m lead for long-range non-contact displacement measurement.

Selected order-code snapshot

Reverse-mount geometry	3/8-24 UNF; fixed 0.2 in unthreaded and 1.8 in case options.
Lead and termination	1.0 m lead with miniature ClickLoc coaxial connector.
Matched response	4.0 mm range, 3.94 V/mm scale and 2.5 mm recommended gap for the complete 11 mm chain.

02 Technical capability and engineering overview

Nominal probe resistance	5.9 +/- 0.5 ohm
Matched-system linear range	4.0 mm
Matched-system scale factor	3.94 V/mm (100 mV/mil)
Recommended gap	2.5 mm

Frequency response	0 to 8 kHz, +0/-3 dB typical
Minimum target diameter	30.5 mm
Probe cable	75 ohm triaxial FEP
Minimum bend radius	25.4 mm
Reverse-mount torque	7.5 N m recommended; 22.6 N m maximum
Probe temperature	-52 to +177 deg C

Evidence boundary

The order fields and numeric data are from 146256 Rev. T. Range, scale, frequency response and gap are properties of the complete matched 11 mm system.

Engineering overview

The fixed reverse-mount body uses a 0.2 in unthreaded option and 1.8 in case option. Its rear installation datum, thread engagement and target clearance must match the machine drawing.

The 1.0 m triaxial lead terminates in a miniature ClickLoc connector. A matching extension cable and 11 mm Proximitor establish the approved 5 m or 9 m electrical chain.

The 4.0 mm range and 3.94 V/mm scale apply to the complete matched chain on the stated reference target. Restore the recorded 2.5 mm gap or accepted bias and prove the monitor response after installation.

Application map

Axial position

Use the long-range 11 mm chain at an approved thrust target where the expected travel remains inside the characterized 4.0 mm region.

Differential expansion

Apply at a documented collar or ramp arrangement after confirming target geometry, probe alignment and expected thermal growth.

Rod position or drop

Use only where the machine design assigns an 11 mm non-contact channel and the reverse-mount datum can be reproduced.

Phase or speed reference

Use with an approved target feature and monitor assignment after verifying target width, gap and rotational clearance.

03 System interpretation and selection boundaries

Product boundary	Apply the listed facts to 330705-02-18-10-02-05 and the documented 3300 XL 11 mm proximity transducer system context only.
Interface boundary	Connector, terminal, bus, cable and companion-device assignments must match the installed drawing.
Electrical boundary	Use exact-model values only; system-level ratings remain conditional on the complete installed configuration.
Configuration boundary	Switches, jumpers, addresses, firmware and project settings must be reconciled before energization.
Diagnostic boundary	Interpret indicators and fault states together with measured inputs, outputs and host-system status.
Acceptance rule	Use the approved system baseline and maintenance procedure for the final as-left decision.

Installed-system context

This reverse-mount probe belongs to a matched 3300 XL 11 mm chain; rear-access geometry, target travel, electrical length and monitor assignment must be reviewed together.

04 Lifecycle, offered scope and related references

Lifecycle status

Order-code coverage	146256 Rev. T defines 330705-02-18-10-02-05 as the 3/8-24 UNF reverse-mount 11 mm configuration with multiple approvals.
Installed-base relationship	The probe remains serviceable only as part of the recorded 5 m or 9 m 3300 XL 11 mm chain.
Replacement boundary	Changing the fixed reverse-mount geometry, 1.0 m lead or ClickLoc interface requires a fresh mechanical and electrical review.
Release evidence	Confirm the delivered suffix, companion cable, Proximitor option and restored 2.5 mm operating gap.

Available unit details

Offered configuration	Reverse mount, 3/8-24 UNF, fixed 0.2 in unthreaded option and 1.8 in case option.
Selected termination	1.0 m lead, miniature ClickLoc coaxial connector and multiple approvals.
Included scope	One 11 mm probe; extension cable, Proximitor, monitor and mounting hardware are separate unless itemized.

Source and applicability record

Verified source	Bently Nevada 3300 XL 11 mm Proximity Transducer System Datasheet, 146256 Rev. T
Applicability boundary	The order fields and numeric data are from 146256 Rev. T. Range, scale, frequency response and gap are properties of the complete matched 11 mm system.
Product family	3300 XL 11 mm proximity transducer system

Additional related product references

Related product	Bently Nevada 330930-040-03-00
Related product	Bently Nevada 84661-96
Related product	Bently Nevada 330102-00-28-10-02-05
Related product	Bently Nevada 330104-00-16-10-02-00

Engineering contact

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