Bently Nevada 330901-00-08-05-02-05

Complete Product Information

Bently Nevada 330901-00-08-05-02-05 is a compact 1/4-28 unarmored NSv probe with a 0.8 in case and 0.5 m standard lead for restricted mounting locations.

01 Product identity and verified data

Complete model	330901-00-08-05-02-05
Product type	3300 XL NSv proximity probe
Manufacturer	Bently Nevada
Technical source	Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet, 147385 Rev. R
Mounting thread	1/4-28 UNF-2A
Cable armor	No armor
Unthreaded length	0.0 in
Overall case length	0.8 in
Total probe length	0.5 m
Connector	Miniature coaxial ClickLoc, standard cable without protector
Approval selection	Multiple approvals
Nominal probe resistance	2.2 +/-0.5 ohm

Engineering purpose

The compact 0.8 in case and unprotected 0.5 m ClickLoc lead are the defining purchase and installation fields for 330901-00-08-05-02-05.

Selected order-code snapshot

Compact inch geometry	1/4-28 UNF-2A; 0.0 in unthreaded reach; 0.8 in overall case.
Short standard lead	0.5 m unarmored 75 ohm cable with miniature ClickLoc and no protector.
NSv response boundary	1.5 mm range, 7.87 V/mm scale and 1.0 mm recommended gap for the complete matched chain.

02 Technical capability and engineering overview

Cable impedance	75 ohm
Probe tensile strength	220 N maximum
Matched-system lengths	5 m or 7 m
Matched-system range	1.5 mm

Matched-system scale	7.87 V/mm (200 mV/mil)
Recommended gap	1.0 mm
Frequency response	0 to 10 kHz, +0/-3 dB typical

Evidence boundary

Exact probe fields and probe-level diagnostic values are from 147385 Rev. R. Range, scale and frequency response apply only to the complete matched NSv chain.

Engineering overview

The 0.8 in case is the minimum listed threaded-case length for this 1/4-28 NSv order structure. Confirm usable port depth and target clearance so the compact body does not bottom before the sensing face reaches its datum.

The 0.5 m lead is the shortest standard NSv probe length and uses an unprotected miniature ClickLoc joint. Locate that joint in a clean, dry, strain-relieved area and combine the lead only with the extension cable and Proximitor that complete the installed 5 m or 7 m chain.

NSv systems are intended for small-target and restricted side-view geometry. Acceptance checks nearby conductive surfaces, probe spacing, restored 1.0 mm gap or accepted bias and controlled monitor response.

Application map

Restricted bearing clearance

Use where the compact 0.8 in body reaches an approved small shaft target without contacting the port bottom.

Side-view displacement

Apply where adjacent metal and target size have been checked for the NSv field geometry.

Compact phase reference

Use only with an approved once-per-turn target and adequate rotational clearance.

Short-lead renewal

Preserve the 0.5 m lead and unprotected ClickLoc location when replacing the installed compact probe.

03 System interpretation and selection boundaries

Product boundary	Apply the listed facts to 330901-00-08-05-02-05 and the documented 3300 XL NSv 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

The offered item is a 1/4-28 UNF-2A unarmored NSv probe; target geometry, probe spacing, extension cable, Proximitor and monitor assignment govern application.

04 Lifecycle, offered scope and related references

Lifecycle status

Exact order-code coverage	147385 Rev. R defines the 1/4-28 body, 0.8 in case, 0.5 m lead, unprotected standard connector and multiple approvals.
Compact installed-base dependency	Support depends on preserving the short case, small-target geometry and 5 m or 7 m NSv electrical chain.
Replacement boundary	A longer case or protected connector changes port fit and junction clearance even when the thread is still 1/4-28.
Release evidence	Record port depth, target and spacing checks, companion identities, restored gap and controlled response.

Available unit details

Offered configuration	1/4-28 NSv probe; 0.0 in unthreaded reach; 0.8 in case; 0.5 m unarmored lead.
Selected termination	Miniature ClickLoc, standard cable without protector; multiple approvals.
Included scope	One NSv probe; extension cable, Proximitor, monitor and mounting hardware are separate unless itemized.

Source and applicability record

Verified source	Bently Nevada 3300 XL NSv Proximity Transducer System Datasheet, 147385 Rev. R
Applicability boundary	Exact probe fields and probe-level diagnostic values are from 147385 Rev. R. Range, scale and frequency response apply only to the complete matched NSv chain.
Product family	3300 XL NSv proximity transducer system

Additional related product references

Related product	Bently Nevada 330500-00-01
Related product	Bently Nevada 330980-70-CN
Related product	Bently Nevada 330930-040-03-00
Related product	Bently Nevada 84661-96

Product-specific purchasing decisions

Why is the 0.8 in case important for 330901-00-08-05-02-05?	It is the compact selected case length and must fit the measured 1/4-28 port without bottoming or shifting the sensing datum.

Engineering contact

Discuss the exact marking and installed application with Apter Power.
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