Bently Nevada 330104-05-17-10-11-05

Engineering Installation, Diagnostic and Acceptance Guide

Bently Nevada 330104-05-17-10-11-05 is a M10 x 1 forward mount sensing element with a 1.0 m lead for a matched 3300 XL 8 mm eddy-current measurement chain.

01 Job scope and identity

Complete model	330104-05-17-10-11-05
Product type	3300 XL 8 mm proximity probe
Manufacturer	Bently Nevada
Technical source	Bently Nevada 3300 XL 8 mm Proximity Transducer System Datasheet, 141194 Rev. AN

Field decisions

1 Establish identity

Capture the full marking, installed companion components and baseline before disconnection.

2 Inspect interfaces

Verify mounting, cable, connector, armor, approval and environmental boundaries.

3 Fit the exact chain

Preserve the documented probe-cable-Proximitor or sensor-monitor relationship.

4 Prove response

Use the approved stopped-machine and operating acceptance procedure.

5 Record as left

Save markings, configuration, test values and operating observations.

Installation relationships

Mechanical fit	Use the M10 x 1 forward mount geometry with 50 mm reach and 170 mm case; do not substitute a different reach or case length.
Electrical chain	Place the 1.0 m probe lead only in the matching 3300 XL 8 mm total-length configuration and preserve the selected connector style.
Acceptance datum	Record the as-found gap or bias, restore the approved operating point and compare the returned channel response with the machine baseline.

Pre-work evidence

Installed drawing	Record the approved cabinet, rail, slot, terminal, cable and system references that govern 330104-05-17-10-11-05.
Complete marking	Capture the complete order identity and every revision or approval marking on the delivered item.
Mechanical reference	Record mounting position, fasteners, connector orientation, access clearance and support points.
Electrical interfaces	Confirm supply, signal, bus, terminal and protective-conductor assignments against the installed drawing.
Configuration state	Record jumpers, switches, addresses, firmware or project settings that apply to this hardware.

02 Pre-installation readiness

Model-specific installation decisions

Exact identity

330104-05-17-10-11-05 and every delivered revision or approval marking must be recorded before removal.

Installed system

3300 XL 8 mm proximity transducer system companion components, channel assignment and approved machine reference must remain traceable.

Mechanical baseline

Record the as-found mounting datum, reach, lock position, target clearance, routing and connector support.

Electrical baseline

Record the applicable stopped-machine gap, bias, continuity or channel value together with test conditions.

As-left configuration

Document the final mechanical position, cable protection, connector condition and complete companion-component identities.

Functional release

Compare the final monitor indication and controlled operating response with the approved baseline before handover.

Installation precautions

Protect the probe face

Keep the PPS tip free of impact, metal chips and process contamination during handling and installation.

Control thread engagement

Seat the M10 x 1 body only to the documented datum; excessive engagement can bind the case or move the sensing face.

Preserve the lead

Maintain at least 25.4 mm bend radius, support the 1.0 m lead independently and never use the ClickLoc joint as a pulling point.

Inspect the connector

Keep the gold-plated interface clean and dry, align it fully and use the documented finger-tight connection method.

Restore the gap

Use the approved stopped-machine procedure to restore the recorded gap or bias before commissioning.

Prove the complete chain

Compare the Proximitor output and monitor indication with the accepted machine baseline before return to service.

Companion and baseline records

Companion hardware	Record the connected drive, rack, motor, transducer, I/O base or control unit as applicable.
As-found baseline	Capture relevant voltages, currents, states, counts, fault history or channel response before removal.
Operating baseline	Record the controlled functional result after the complete system is returned to service.

Pre-installation release gates

Identity gate	The delivered marking is 330104-05-17-10-11-05 and all visible revision or approval details have been photographed.
Drawing gate	The installed asset, channel, mounting reference and companion-component assignments are identified on the approved record.
Mechanical gate	Mounting surface, thread or support points, access clearance and target relationship are suitable for the selected configuration.
Interface gate	Connector, conductor, shield, terminal and protective-conductor condition have been inspected before connection.
Route gate	Cable or lead routing preserves bend radius, strain relief, contamination protection and separation from damaging surfaces.
Baseline gate	The applicable stopped-machine reading and operating observation have been captured with units and test conditions.

03 Installation and commissioning

Controlled installation sequence

01 Isolate	Place the monitored machine and channel in the approved maintenance state; prove the required isolation.
02 Photograph	Capture 330104-05-17-10-11-05, the installed datum, connector, route and companion-component markings.
03 Measure	Record mechanical position and the applicable stopped-machine electrical reading before removal.
04 Compare	Check delivered identity, interfaces and evidence against the approved drawing and spare-parts record.
05 Install	Fit without twisting the lead; preserve thread engagement, target clearance, bend radius and strain relief.
06 Set point	Establish the operating gap or datum only with the approved stopped-machine procedure.
07 Prove	Compare local reading, monitor indication and controlled operating response with the accepted baseline.
08 Handover	Record as-left values, photographs, deviations, responsible technician and release approval.

Commissioning acceptance criteria

Mechanical fit	M10 x 1; 50 mm unthreaded reach; 170 mm case; forward mount. Confirm the installed datum and available target travel before final tightening.
Lead or interface fit	1.0 m; ClickLoc with connector protector, FluidLoc cable. Inspect the mating interface and provide independent route support.
System position	This exact probe configuration belongs to a 3300 XL 8 mm proximity transducer system; its M10 x 1 mounting, 1.0 m lead, connector and installed target must be reviewed together.
As-found reference	Record the applicable stopped-machine reading and the exact companion-component identities before disconnection.
Static acceptance	Restore the documented gap, bias, continuity or channel value with the machine in the approved test state.

Functional acceptance	Compare local indication, monitor response and the controlled operating observation with the accepted machine baseline.
Deviation control	Withhold release when the delivered marking, mounting datum, interface, system length or response differs from the approved record.
Release evidence	Retain the complete marking, test conditions, measured results, photographs, reviewer and maintenance-record reference.

Acceptance test points

After mechanical fit	Record final mounting datum, engagement, lock position, target clearance and route support.
After interface connection	Confirm contact seating, conductor or shield assignment and continuity or bias as applicable.
Before energization	Reconcile companion identities, total chain configuration and monitor or collector channel assignment.
Initial energized state	Observe the local channel value and status without declaring acceptance from open-circuit voltage alone.
Controlled functional proof	Compare the returned indication and machine response with the approved operating baseline.
Final record	Attach photographs, measured values, deviations, approvals and the maintenance-record location.

04 Diagnostics and escalation

Which mounting dimensions must be checked before fitting 330104-05-17-10-11-05?	Verify M10 x 1, 50 mm reach, 170 mm case and the recorded forward mount datum against the installed drawing.
Which electrical-chain length applies to 330104-05-17-10-11-05?	The selected probe lead is 1.0 m; combine it only with the extension cable and Proximitor option documented for that total system length.
What connector inspection is required for 330104-05-17-10-11-05?	Inspect the selected clickloc with connector protector, fluidloc cable for moisture, contamination, bent contacts and unsupported lead load before mating.
Which system values may be used when assessing 330104-05-17-10-11-05?	Use the 2.0 mm range and 7.87 V/mm scale only for a complete matched 3300 XL 8 mm chain on the stated reference target.

Additional diagnostic decisions

How should the operating point be restored after installing 330104-05-17-10-11-05?	Restore the documented gap or bias using the approved stopped-machine method, then compare the Proximitor and monitor readings.
What target checks are required for 330104-05-17-10-11-05?	Confirm target material, flat target area, shaft diameter, probe spacing and expected travel against the machine drawing.
When must 330104-05-17-10-11-05 be withheld from service?	Withhold release if the marking, mechanical datum, connector, companion components, gap or controlled response differs from the approved record.
What handover evidence should be retained for 330104-05-17-10-11-05?	Keep the full marking, installed geometry, companion identities, as-left gap or bias, Proximitor output and monitor response.

Escalation triggers

Identity conflict	Stop if the complete marking, suffix, revision or approval identity differs from the approved record.
Host mismatch	Escalate if the rack, carrier, backplane, terminal unit or controller assignment is not documented for 330104-05-17-10-11-05.
Interface damage	Do not energize with bent contacts, damaged insulation, loose retainers, contamination or heat discoloration.
Environmental breach	Review any exposure beyond the documented temperature, vibration, humidity, contamination or enclosure boundary.
Unapproved substitution	Do not transfer ratings or compatibility from an adjacent order code without manufacturer evidence.
Configuration conflict	Stop if hardware settings, firmware, channel assignment or project configuration disagree with the installed record.
Unstable measurement	Investigate noise, drift, intermittent status or inconsistent readings before replacing another component.
Failed functional proof	Keep the asset in the approved maintenance state until the complete acceptance sequence is passed and recorded.

05 Handover and evidence package

As-left verification worksheet

Exact delivered marking	330104-05-17-10-11-05; photograph and record any additional label detail.

Installed asset reference	Machine, bearing, train, channel and drawing identifiers.
Mechanical as found	Reach, lock position, gap reference, cable route and connector support.
Static reading as found	Gap, bias, continuity or channel value appropriate to the installed system.
Companion identities	Extension cable, Proximitor or conditioner and monitor channel markings.
Mechanical as left	Final reach, lock position, target clearance and route protection.
Static reading as left	Final gap, bias, continuity or channel value with test conditions.
Operating proof	Monitor response and machine observation accepted by the responsible authority.

Evidence quality controls

Traceability	Each value is tied to 330104-05-17-10-11-05, the asset location, test state, instrument and date.
Repeatability	The same approved method and comparable operating state are used for before-and-after readings.
Resolution	Recorded precision does not exceed the capability of the instrument or source document.
Reference state	Stopped, energized, loaded and process-running observations are clearly distinguished.
Change control	Every changed setting, connection or mechanical datum has an approved reason and reviewer.
Retention	Evidence remains accessible with the maintenance record for future troubleshooting and replacement review.

Model-specific application limits

Mounting	M10 x 1, forward mount
Lead	1.0 m
System range	2.0 mm
Scale factor	7.87 V/mm
Minimum bend radius	25.4 mm

Verified related product references

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
Related product	Bently Nevada 330500-00-01

Engineering contact

Discuss the exact marking and installed application with Apter Power.
sales13@apterpower.com | +86 18030235313