Bently Nevada 330195-02-12-50-00

Engineering installation and verification guide

Bently Nevada 330195-02-12-50-00 is a 3/8-24 UNF reverse-mount 3300 XL 8 mm ETR proximity probe with a 5.0 m integral lead and the 00 no-approval ordering option.

01 / Establish the installed identity

Compare the full offered model and any visible revision or approval marks with the removed item, machine drawing and monitor configuration. Capture the original measured baseline before changing the sensing chain.

Probe family	3300 XL 8 mm extended-temperature range
Mounting arrangement	Reverse mount
Mounting thread	3/8-24 UNF-2A
Reverse-mount geometry	02-12 fixed case option
Integral lead length	5.0 m
Approval option	00; agency approval not required
Probe-tip temperature	-52 to +218 deg C, ETR design

02 / Engineering interface map

1 / machine target	Start from the actual installed application.
2 / probe	Confirm fit and identity before energizing.
3 / matched extension / lead	Confirm fit and identity before energizing.
4 / Proximitor	Confirm fit and identity before energizing.
5 / monitor	Confirm fit and identity before energizing.

03 / Installation decisions

Reverse-mount fit

Confirm the 3/8-24 bore, back-side access and fixed 02-12 geometry.

Electrical length

Pair the 5 m lead with the corresponding 5 m Proximitor; do not add extension length.

Cable support

Protect the rear cable exit against tight bends and contact with moving hardware.

Target calibration

Recheck response if target alloy or surrounding metal differs from the calibration setup.

Connector inspection

Keep the coaxial joint clean and strain relieved.

As-left baseline

Record gap, supply and operating trend before releasing the channel.

04 / Acceptance sequence

Isolate and inspect	Apply site isolation and inspect the physical part, contacts, seal or route as applicable.

Fit and connect	Use the verified mounting and electrical interface; preserve the installed channel design.
Prove response	Check the relevant gap, bias, pressure or velocity output against the approved site procedure.
Record as left	Save complete markings, test results, configuration and operating trend before release.

05 / Fault isolation by symptom

Why is the 5 m Proximitor pairing important for 330195-02-12-50-00?	A different sensor length changes the electrical calibration. Verify the 5 m sensor marking and do not add an extension cable to this 5 m lead.
How can reverse-mount access affect replacement of 330195-02-12-50-00?	The probe must pass through the documented rear clearance and support arrangement without cable strain. Compare case geometry and bracket position before setting gap.
What may shift the gap response of 330195-02-12-50-00 after a target change?	Eddy-current coupling changes with target alloy and geometry. Recheck the matched channel against the actual machine target.
How should the ETR temperature limit of 330195-02-12-50-00 be applied?	Check the tip and cable/connector locations separately; the published limits differ for those parts and do not describe the Proximitor environment.

06 / Engineering review before release

How can an intermittent signal from 330195-02-12-50-00 be isolated?	With the channel safely isolated, inspect the coaxial joint and rear cable exit, then compare probe-only resistance with the applicable reference.
What can reduce dynamic response while 330195-02-12-50-00 still shows a DC gap?	Field-wire length, barriers, monitor loading or poor termination can attenuate higher frequencies. Inspect the complete chain and response curve.
When should the mechanical gap of 330195-02-12-50-00 be checked again?	Repeat the gap check after moving the reverse-mount bracket, changing the probe or disturbing the target clearance.
What belongs in the as-left record for 330195-02-12-50-00?	Retain complete probe and sensor markings, target material, resistance, gap voltage and measured running signal.

Technical basis

Bently Nevada 3300 XL 8 mm Proximity Transducer System, 141194 Rev. AN

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