

330910-00-10-10-01-05

3300 XL NSv M10 x 1 Armored Proximity Probe

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Bently Nevada 330910-00-10-10-01-05 is an M10 x 1 threaded 3300 XL NSv probe with stainless-steel armor, a 1.0 m total probe length, a ClickLoc connector protector and multiple approvals.

STEP	GATE	ENGINEERING PURPOSE
01	IDENTIFY	Confirm exact suffix and installed system
02	ISOLATE	Secure monitor channel and stored energy
03	CONNECT	Restore documented probe and connector interface
04	VALIDATE	Set gap and prove channel response

WORKBOOK PURPOSE

Model-specific installation, connection, commissioning and acceptance guidance based on Baker Hughes publication 147385 Rev. R.

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1 | Identity and pre-installation gate

Decode the complete article before work. The suffixes define the exact mechanical and electrical construction and must remain together in the service record.

CODE POSITION	VALUE	DOCUMENTED MEANING
Base	330910	3300 NSv probe, M10 x 1 thread, with armor
AA	00	0 mm unthreaded length
BB	10	100 mm overall case length
CC	10	1.0 m total length
DD	01	Miniature coaxial ClickLoc connector with connector protector; standard cable
EE	05	Multiple approvals

Compatibility gate

Use the probe only as part of a matched 3300 XL NSv proximity transducer system. The Proximitior Sensor input accepts one non-contacting 3300 RAM or 3300 NSv proximity probe and extension cable.

PRE-INSTALLATION CHECK	ACCEPTANCE CRITERION
Nameplate	Complete model reads 330910-00-10-10-01-05.
Thread interface	M10 x 1 mounting interface is clean and undamaged.
Cable and armor	1.0 m probe cable, armor and connector protector are intact.
Target	Target material and geometry match the approved machine design.
System components	Probe, extension cable and Proximitior Sensor are the documented matched set.

2 | Mechanical installation

Control thread engagement, probe position and cable routing before tightening. Mechanical damage or excessive engagement can alter installation or cause premature failure.

ITEM	DOCUMENTED LIMIT OR PRACTICE
M10 x 1 maximum thread engagement	15 mm
M10 x 1 probe case torque	Maximum 33.9 N*m; recommended 11.3 N*m
First three M10 x 1 threads	Maximum 22.6 N*m; recommended 7.5 N*m
Minimum cable bend radius	25.4 mm with or without stainless-steel armor
Probe case material	AISI 304 stainless steel
Probe tip material	Polyphenylene sulfide (PPS)

Mounting sequence

1. Confirm shutdown and channel isolation. 2. Inspect the M10 x 1 thread and mounting depth. 3. Route the armored cable without violating the bend radius. 4. Set the probe position without twisting the cable. 5. Tighten within the documented torque limit.

Cross-talk control

Maintain at least 25 mm tip separation for axial position measurements or 23 mm for radial vibration measurements when adjacent probes could interact.

3 | Electrical interface and gap setting

Restore the matched transducer chain and field wiring before energizing. Connector protection, cable condition and polarity are part of the acceptance boundary.

ELECTRICAL ITEM	DOCUMENTED VALUE
Power without barriers	-17.5 Vdc to -26 Vdc, 12 mA maximum
Power with barriers	-23 Vdc to -26 Vdc
Output resistance	50 ohm
Field wire size	0.2 to 1.5 mm ² (16 to 24 AWG); 0.25 to 0.75 mm ² with ferrules
Recommended field cable	Three-conductor shielded triad; up to 305 m
Linear range	1.5 mm, approximately 0.25 to 1.75 mm
Recommended gap	1.0 mm (40 mils)
Frequency response	0 to 10 kHz, +0/-3 dB typical

Connection sequence

Inspect the miniature coaxial ClickLoc connection, confirm the protector is fitted, restore shielded field wiring, verify polarity at the Proximitor Sensor, then energize and establish the documented static gap.

Caution

Operation at a voltage more positive than -23.5 Vdc can reduce linear range. Do not accept a channel solely because it powers up; verify gap voltage and response.

4 | Commissioning and acceptance

TEST	METHOD	PASS EVIDENCE
Identity	Compare installed marking and suffix decode.	Exact 330910-00-10-10-01-05 recorded.
Mechanical	Inspect engagement, torque, armor and bend radius.	No interference, damage or overstress.
Power	Measure supply at the Proximator Sensor.	Within the applicable documented range.
Static gap	Adjust probe against approved target.	Nominal 1.0 mm / 40 mil setting.
Signal response	Move target through usable range.	Smooth response across documented 1.5 mm range.
Channel	Confirm monitor indication and diagnostics.	No unresolved fault; direction and scale are correct.

ENVIRONMENT	DOCUMENTED LIMIT
Probe operating temperature	-52 C to +177 C
Extension cable operating/storage	-52 C to +177 C
Proximator Sensor operating	-52 C to +100 C
Relative humidity	100% condensing, non-submersible with connectors protected

Closeout record

Record the exact probe code, matched extension cable and Proximator Sensor, mounting position, gap value, supply voltage, polarity, monitor response and final diagnostic condition.

MANUFACTURER SOURCE RECORD

3300 XL NSv Proximity Transducer System Datasheet, 147385 Rev. R

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