

330704-000-078-10-01-05

3300 XL 11 mm M14 x 1.5 Armored Proximity Probe

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Bently Nevada 330704-000-078-10-01-05 is the metric M14 x 1.5 armored probe configuration for the 3300 XL 11 mm proximity transducer system.

STEP	GATE	PURPOSE
01	IDENTIFY	Confirm exact suffix and matched system
02	INSTALL	Control thread, armor and cable route
03	CONNECT	Restore the ClickLoc interface and field wiring
04	VALIDATE	Set gap and prove monitor response

WORKBOOK PURPOSE

Model-specific installation and commissioning controls based on Baker Hughes publication 146256 Rev. T.

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1 | Identity and compatibility

Treat the complete ordering code as one controlled identity. Each suffix defines a physical or approval feature.

CODE	VALUE	DOCUMENTED MEANING
Base	330704	3300 XL 11 mm probe, M14 x 1.5 thread, with armor
AAA	000	0 mm unthreaded length
BBB	078	78 mm overall case length
CC	10	1.0 m total length
DD	01	ClickLoc connector with protector; standard cable
EE	05	Multiple approvals

System pairing

Use with the documented 3300 XL 11 mm extension cable and Proximity Sensor. Preserve the selected total system length and the installed monitor-channel configuration.

CHECK	ACCEPTANCE
Nameplate	Exact 330704-000-078-10-01-05 recorded.
Mechanical interface	M14 x 1.5 thread and mounting depth verified.
Cable	1.0 m standard cable and stainless-steel armor intact.
Connector	ClickLoc connection and protector intact.
Approval	Installed-area requirements checked against the applicable drawing.

2 | Mechanical installation

CONTROL	DOCUMENTED REQUIREMENT
Probe case	M14 x 1.5 metric thread with armor
Unthreaded length	0 mm
Overall case length	78 mm
Total probe length	1.0 m
Minimum bend radius	25.4 mm for the probe cable and armor
Target use	Non-contacting vibration and displacement measurement on approved conductive targets

Installation sequence

Isolate the machine and channel; inspect mounting threads; confirm the case will not bottom out; route armor without sharp bends; fit the probe without twisting the cable; protect the ClickLoc connection.

Mechanical acceptance

Record mounting position, thread engagement, cable route, armor condition and connector-protector installation before energizing.

3 | Electrical setup and commissioning

PARAMETER	DOCUMENTED VALUE
System output	3.94 V/mm (100 mV/mil)
Linear range	4.0 mm (160 mils)
Recommended gap	2.0 mm (80 mils)
Frequency response	0 to 8 kHz, +0/-3 dB typical
Power without barriers	-17.5 Vdc to -26 Vdc, 12 mA maximum
Power with barriers	-23 Vdc to -26 Vdc
Field wiring	Three-conductor shielded triad; up to 305 m

Commissioning sequence

Verify supply polarity and voltage, establish the documented static gap, move the target through the usable range, confirm smooth output, check monitor scaling and direction, then clear diagnostics under controlled conditions.

Acceptance boundary

Do not accept the probe by continuity alone. The matched transducer chain, gap, output response, monitor indication and final diagnostic state must all be recorded.

4 | Acceptance record and related products

TEST	PASS EVIDENCE
Identity	Complete suffix matches the installed article.
Mechanical	Thread, armor, bend radius and connector are acceptable.
Power	Supply is inside the applicable documented range.
Gap	Nominal 2.0 mm setting is recorded.
Response	Smooth response across the required operating span.
Channel	Correct scale, direction and diagnostic state.

Verified related Apter Power pages

RECOMMENDED PRODUCT	ACTION
Bently Nevada 330130-080-03-05	View Bently Nevada 330130-080-03-05 page
Bently Nevada 330104-01-08-50-01-05	View Bently Nevada 330104-01-08-50-01-05 page
Bently Nevada 330105-02-12-15-02-05	View Bently Nevada 330105-02-12-15-02-05 page
Bently Nevada 330103-00-11-10-02-05	View Bently Nevada 330103-00-11-10-02-05 page
Bently Nevada 330130-085-00-05	View Bently Nevada 330130-085-00-05 page
Bently Nevada 330905-00-18-05-02-05	View Bently Nevada 330905-00-18-05-02-05 page
Bently Nevada 330704-000-050-10-02-05	View Bently Nevada 330704-000-050-10-02-05 page
Bently Nevada 330180-X2-05 MOD:181634-01	View Bently Nevada 330180-X2-05 MOD:181634-01 page

MANUFACTURER SOURCE RECORD

3300 XL 11 mm Proximity Transducer System Datasheet, 146256 Rev. T

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