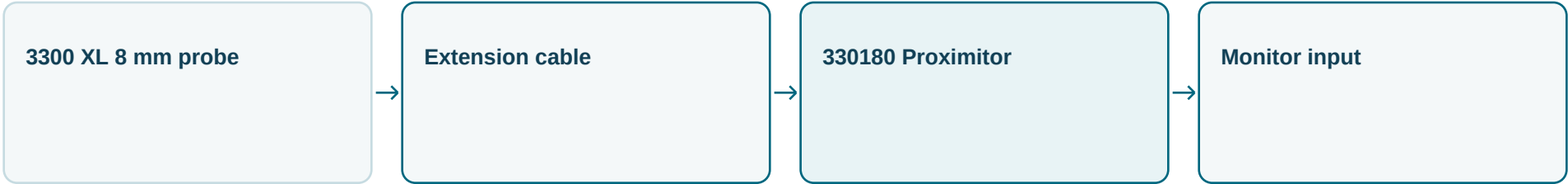


01 PRODUCT DASHBOARD

Bently Nevada 330180-X1-05 MOD:143945-05

Proximitior Sensor | Signal-conditioning sensor in a 3300 XL 8 mm proximity transducer system.



System input
One compatible probe and extension cable

Supply
-17.5 to -26 Vdc; barrier use has a narrower range

Output resistance
50 ohms

Field connection
SpringLoc terminals; ClickLoc sensor connector

ORDERING AND IDENTITY
330180 denotes the Proximitior Sensor family. The standard 05 approval option is listed for CSA, ATEX and IECEx.

02 TECHNICAL CAPABILITY MAP

System input	One compatible probe and extension cable	Reference target	Factory calibration to AISI 4140 steel
Supply	-17.5 to -26 Vdc; barrier use has a narrower range	Nominal radial gap	-9 Vdc at the stated reference conditions
Output resistance	50 ohms	Probe path	3300-series 5 mm or 3300 XL 8 mm probe plus matching cable
Field connection	SpringLoc terminals; ClickLoc sensor connector	Field wiring	Shielded, three-conductor triad and tinned conductors

SYSTEM REFERENCE

The 3300 XL 8 mm sensing chain combines the probe, cable and Proximitor Sensor. Evaluate system performance under the published test conditions and installed configuration.

Can the sensor be checked without removing field wiring?

The published 148722-01 test plug connects to test holes in the Proximitor terminal strip.

03 MACHINERY APPLICATIONS

Radial vibration

Conditions the probe signal for dynamic shaft vibration measurement.

Axial position

Converts probe-to-target gap into a static position signal.

Keyphasor reference

Supports a rotating-machine phase reference when the system is applied appropriately.

Speed observation

Supports speed measurement through the transducer system's probe signal.

System pairing checkpoints

Probe path	3300-series 5 mm or 3300 XL 8 mm probe plus matching cable
Field wiring	Shielded, three-conductor triad and tinned conductors
Connector	Gold-plated ClickLoc; finger-tight when both sides are XL
Test access	148722-01 test plug uses the sensor terminal-strip test holes

04 PRODUCT PRECAUTIONS

01 CONTROL POINT

Isolate and verify the sensor supply before handling field terminals.

02 CONTROL POINT

Match the installed probe and extension cable to the intended system configuration.

03 CONTROL POINT

Inspect the ClickLoc joint; seat matched XL connectors finger-tight until they click.

04 CONTROL POINT

Protect exposed cable connectors from the machine environment.

05 CONTROL POINT

Use the mounting arrangement documented for the installed sensor hardware.

06 CONTROL POINT

Use shielded triad field wiring and tinned conductors at SpringLoc terminals.

07 CONTROL POINT

Check the gap signal against the system's target-material calibration.

08 CONTROL POINT

Use the sensor test holes with the documented test plug for controlled checks.

05 ENGINEERING QUESTIONS AND SOURCE

01 What is the role of 330180-X1-05 in the sensing chain?

The 330180 family is the Proximity Sensor stage between the probe/cable assembly and the monitor.

01 What supply must be checked at the sensor?

The published 3300 XL system specification gives -17.5 to -26 Vdc, with a narrower barrier-connected condition.

02 Which transducer elements feed this Proximity Sensor?

The 3300 XL 8 mm system uses a proximity probe and an extension cable ahead of the sensor.

02 How is the sensor's field wiring terminated?

The 3300 XL Proximity Sensor uses SpringLoc terminal strips.

03 What does the standard 05 agency option identify?

The published 330180 ordering table lists option 05 for CSA, ATEX and IECEx approvals.

03 What does a -9 Vdc radial-vibration gap mean?

It is the published recommended gap setting under the stated AISI 4140 reference conditions.

MANUFACTURER SOURCE RECORD

Bently Nevada, 3300 XL 8 mm Proximity Transducer System Datasheet, 141194 Rev. AN, pp. 1-5, 8-9, 18, 20.

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330180-X1-05