

INDUSTRIAL MACHINERY MONITORING PRODUCT

330180-X1-00 MOD 145004-09

3300 XL Proximitior Sensor

Bently Nevada 330180-X1-00 MOD 145004-09 is a marked 3300 XL Proximitior Sensor configuration for a 3300 XL 8 mm proximity transducer loop. The current manufacturer datasheet defines the 330180 sensor family but does not decode MOD 145004-09.

IDENTITY	VERIFIED VALUE	TRADE	VERIFIED VALUE
Manufacturer	Bently Nevada	Country of origin	USA
Model	330180-X1-00 MOD 145004-09	HS code	8537101190
Product	3300 XL Proximitior Sensor	Ship from	Xiamen, Fujian, China
Family	3300 XL 8 mm Proximity Transducer System	Dimensions	

DOCUMENT SCOPE

Exact model identity, supported configuration data, installation checks, applications, precautions and controlled acceptance records.

MODEL-SPECIFIC ENGINEERING NOTE

Record the complete 330180-X1-00 MOD 145004-09 nameplate and installed mounting before replacement. Match the probe and extension cable to the actual system length, then verify power, gap and channel response without assigning an undocumented meaning to the MOD code.

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330180-X1-00 MOD 145004-09

Verified Product Record

PARAMETER	VERIFIED VALUE
Country of origin	USA
HS code	8537101190
Ship from	Xiamen, Fujian, China
Sensor family	3300 XL 8 mm
Manufacturer series	330180
Sensor input	3300-series 5 mm or 3300 XL 8 mm probe and extension cable
Supply	-17.5 to -26 Vdc
Maximum consumption	12 mA
Output resistance	50 ohm
Linear range	2 mm
Nominal scale factor	7.87 V/mm
Frequency response	0 to 10 kHz
MOD code	145004-09; verify from nameplate

Installation Boundary

ENGINEERING BOUNDARY

Record the complete 330180-X1-00 MOD 145004-09 nameplate and installed mounting before replacement. Match the probe and extension cable to the actual system length, then verify power, gap and channel response without assigning an undocumented meaning to the MOD code.

CHECK	REQUIRED RECORD
Identity	330180-X1-00 MOD 145004-09
Installed arrangement	Position, mating hardware, cable and termination
Configuration	Associated module or monitor channel
Acceptance	Diagnostics and controlled functional proof

SOURCE BOUNDARY

Baker Hughes / Bently Nevada publication 141194 Rev. AM. Apply only the exact ordering-code values shown in this document and verify the installed marking before work.

System Role and Verification

Bently Nevada 330180-X1-00 MOD 145004-09 is a marked 3300 XL Proximito Sensor configuration for a 3300 XL 8 mm proximity transducer loop. The current manufacturer datasheet defines the 330180 sensor family but does not decode MOD 145004-09.

IDENTITY

Record 330180-X1-00 MOD 145004-09 from the physical marking.

INTERFACE

Document every mating part, connector and cable before disturbance.

CONFIGURATION

Confirm the associated system and channel using manufacturer records.

ACCEPTANCE

Restore the documented arrangement and prove operation before release.

Controlled Installation Checklist

NO.	CHECK
1	Verify the entire 330180-X1-00 MOD 145004-09 marking before work.
2	Do not infer the system-length or mounting digits hidden by X1; record the physical mounting and cable lengths.
3	Do not assign a calibration or approval meaning to MOD 145004-09 without manufacturer confirmation.
4	Provide -17.5 to -26 Vdc and observe the barrier-dependent supply limit where applicable.
5	Use 3-conductor shielded triad field wiring and preserve the approved grounding arrangement.
6	Confirm probe plus extension-cable length matches the installed Proximito system length.
7	Set the radial-vibration bias near -9 V only after target material and available travel are verified.
8	Prove static position, dynamic response, polarity and alarm action before release.

Applications and Model-Specific FAQ

RADIAL SHAFT VIBRATION

Conditions the dynamic probe signal for an approved machinery-monitoring channel.

AXIAL POSITION

Converts probe-to-target displacement into a proportional voltage signal.

KEYPHASOR REFERENCE

Supports phase-reference or speed service when the installed loop is configured for that duty.

FLUID-FILM BEARING MACHINES

Supports non-contact measurements on turbines, compressors, pumps and similar supported machines.

QUESTION	ANSWER
Which part of 330180-X1-00 MOD 145004-09 is not decoded by publication 141194?	The manufacturer datasheet defines the 330180-AA-BB ordering pattern but does not publish the meaning of MOD 145004-09, so that suffix must remain nameplate-controlled.
What supply range applies to 330180-X1-00 MOD 145004-09 as a 3300 XL Proximitor Sensor?	Use -17.5 to -26 Vdc for the published non-incendive connection; barrier installations require the datasheet's more negative supply range.
What sensor input can 330180-X1-00 MOD 145004-09 accept?	The 330180 family accepts one non-contacting 3300-series 5 mm or 3300 XL 8 mm probe with its matching extension cable.
How should field wiring for 330180-X1-00 MOD 145004-09 be selected?	Use 0.2 to 1.5 mm2 wiring; the manufacturer recommends tinned three-conductor shielded triad cable up to 305 m.
What radial-vibration gap reference is used for 330180-X1-00 MOD 145004-09?	The standard 3300 XL 8 mm system reference is approximately -9 Vdc, corresponding to about 1.27 mm on the specified steel target.
Why must the actual cable lengths be recorded for 330180-X1-00 MOD 145004-09?	The probe and extension-cable lengths must add up to the Proximitor Sensor system length; X1 does not reveal that complete value.
What output loading is used when checking 330180-X1-00 MOD 145004-09?	The datasheet performance conditions use a 10 kilohm load and publish a 50 ohm Proximitor output resistance.
Which acceptance evidence is appropriate for 330180-X1-00 MOD 145004-09?	Record the nameplate, mounting, actual cable lengths, supply voltage, bias gap, static travel, dynamic response and final channel state.

Precautions and Related Products

NO.	PRECAUTION
1	Verify the entire 330180-X1-00 MOD 145004-09 marking before work.
2	Do not infer the system-length or mounting digits hidden by X1; record the physical mounting and cable lengths.
3	Do not assign a calibration or approval meaning to MOD 145004-09 without manufacturer confirmation.
4	Provide -17.5 to -26 Vdc and observe the barrier-dependent supply limit where applicable.
5	Use 3-conductor shielded triad field wiring and preserve the approved grounding arrangement.
6	Confirm probe plus extension-cable length matches the installed Proximity system length.
7	Set the radial-vibration bias near -9 V only after target material and available travel are verified.
8	Prove static position, dynamic response, polarity and alarm action before release.

Related Bently Nevada Products on Apter Power

MODEL	RELATION	APTER POWER PAGE
330101-00-36-10-02-05	Bently Nevada machinery-monitoring component	View 330101-00-36-10-02-05
330101-00-39-10-02-05	Bently Nevada machinery-monitoring component	View 330101-00-39-10-02-05
330101-00-39-15-11-00	Bently Nevada machinery-monitoring component	View 330101-00-39-15-11-00
330101-00-39-20-02-05	Bently Nevada machinery-monitoring component	View 330101-00-39-20-02-05
330101-00-40-05-02-00	Bently Nevada machinery-monitoring component	View 330101-00-40-05-02-00
330101-00-40-10-01-00	Bently Nevada machinery-monitoring component	View 330101-00-40-10-01-00
330101-00-40-10-02-00	Bently Nevada machinery-monitoring component	View 330101-00-40-10-02-00
330101-00-40-10-02-05	Bently Nevada machinery-monitoring component	View 330101-00-40-10-02-05

MANUFACTURER SOURCE RECORD

3300 XL 8 mm Proximity Transducer System Datasheet
Baker Hughes / Bently Nevada publication 141194 Rev. AM

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