

330180-X1-CN MOD:145193-09

Proximitior Sensor

It is a modified 330180 Proximitior Sensor carrying the exact MOD:145193-09 service identity.

Manufacturer	Bently Nevada
Product family	3300 XL 8 mm proximity transducer system
Complete model	330180-X1-CN MOD:145193-09
Source record	141194 Rev. AN

RELATED PRODUCTS ON APTER POWER

01	Bently Nevada 330103-00-06-10-02-CN	OPEN
02	Bently Nevada 330101-30-63-15-02-CN	OPEN
03	Bently Nevada 26363-30	OPEN
04	Bently Nevada 3300-12-02-20-00	OPEN
05	Bently Nevada 130768-01	OPEN
06	Bently Nevada 4300111	OPEN

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Exact-model technical record

Complete model	330180-X1-CN MOD:145193-09	Maximum current	12 mA
Manufacturer	Bently Nevada	Output resistance	50 ohm
Product family	3300 XL 8 mm proximity transducer system	Maximum field wire	305 m (1,000 ft)
Base assembly	330180 Proximitor Sensor	Matched system	3300 XL 8 mm probe and extension cable
Option identity	X1-CN	System linear range	2.0 mm (80 mils)
Modification identity	145193-09	Scale factor	7.87 V/mm (200 mV/mil)
Power without barriers	-17.5 to -26 V DC	Frequency response	0 to 10 kHz
Power with barriers	-23 to -26 V DC	Catalog boundary	MOD and nonstandard suffix require exact

OFFICIAL SOURCE COVERAGE

Source 1	3300 XL 8 mm Proximity Transducer System Datasheet — Ordering Information, 141194 Rev. AN
Source 2	3300 XL 8 mm Proximity Transducer System Datasheet — Specifications, 141194 Rev. AN
Source 3	3300 XL 8 mm Proximity Transducer System Datasheet — Description and ordering notes, 141194 Rev. AN

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System role and applications

Shaft vibration loop

Conditions a matched eddy-current probe signal for machinery monitoring.

Position measurement

Supports non-contacting position measurement in an engineered installation.

Buffered diagnostics

Provides the transducer signal used for gap and waveform checks.

Modified sensor renewal

Preserves the exact MOD:145193-09 service identity during replacement.

ENGINEERING BOUNDARY

Do not decode or substitute the X1-CN / MOD:145193-09 identity from a standard catalog entry. Verify the complete nameplate, matched probe/cable length, power, polarity and monitor configuration.

RELATED PRODUCTS ON APTER POWER

01	Bently Nevada 330103-00-06-10-02-CN	OPEN
02	Bently Nevada 330101-30-63-15-02-CN	OPEN
03	Bently Nevada 26363-30	OPEN
04	Bently Nevada 3300-12-02-20-00	OPEN

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Model-specific engineering questions

Q1. What prevents a standard 330180 from replacing Bently Nevada 330180-X1-CN MOD:145193-09 by appearance alone?

The X1-CN option and MOD:145193-09 form one controlled identity; their function must be confirmed from the installed service record before substitution.

Q2. How should the matched 8 mm system be documented around the X1-CN sensor?

Record the probe family, extension-cable length, total system length, target, and monitor assignment as one transducer chain.

Q3. Which voltage checks apply before energizing Bently Nevada 330180-X1-CN MOD:145193-09?

Measure -17.5 to -26 Vdc in a non-barrier loop or -23 to -26 Vdc when barriers are used, and confirm current remains within 12 mA.

Q4. Why is shield routing important on the 305 m field-wire allowance?

The 305 m (1,000 ft) limit assumes the specified wiring method; poor shielding or routing can add interference long before the length limit is reached.

SOURCE IDENTIFIER

141194 Rev. AN

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Acceptance reference and related products

Q5. What does a 50 ohm output mean for X1-CN diagnostics?

Use a suitable high-impedance instrument so the sensor's 50 ohm output is observed without changing the gap or waveform reading.

Q6. How can technicians identify a pairing error on Bently Nevada 330180-X1-CN MOD:145193-09?

An unstable gap voltage, incorrect 7.87 V/mm slope, or distorted buffered signal points to wrong component length, wiring, target, or configuration.

RELATED PRODUCTS ON APTER POWER

01	Bently Nevada 130768-01	OPEN
02	Bently Nevada 4300111	OPEN
03	Bently Nevada 125565-01	OPEN
04	Bently Nevada 125388-01	OPEN
05	Bently Nevada 330104-03-06-10-02-00	OPEN
06	Bently Nevada 330104-00-15-10-02-00	OPEN
07	Bently Nevada 330104-00-12-10-02-00	OPEN
08	Bently Nevada 330910-00-05-50-02-00	OPEN
09	Bently Nevada 330909-00-60-10-01-05	OPEN
10	Bently Nevada 330103-00-06-50-02-00	OPEN
11	Bently Nevada 330101-37-57-10-02-05	OPEN
12	Bently Nevada 24765-01-00	OPEN

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