

330180-X1-05 MOD:143416-07

Proximitior Sensor

It is a modified 330180 Proximitior Sensor carrying the exact MOD:143416-07 service identity.

Manufacturer	Bently Nevada
Product family	3300 XL 8 mm proximity transducer system
Complete model	330180-X1-05 MOD:143416-07
Source record	141194 Rev. AN

RELATED PRODUCTS ON APTER POWER

01	Bently Nevada 330102-04-25-10-02-00	OPEN
02	Bently Nevada 330910-00-07-05-02-CN	OPEN
03	Bently Nevada 330910-00-07-05-02-05	OPEN
04	Bently Nevada 330102-00-20-10-02-00	OPEN
05	Bently Nevada 330101-00-60-10-02-05	OPEN
06	Bently Nevada 330101-00-40-10-02-05	OPEN

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WEBSITE www.apterpower.com



Exact-model technical record

Complete model	330180-X1-05 MOD:143416-07	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	X1-05	System linear range	2.0 mm (80 mils)
Modification identity	143416-07	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:143416-07 service identity during replacement.

ENGINEERING BOUNDARY

Do not decode or substitute the X1-05 / MOD:143416-07 identity from a standard catalog entry. Verify the complete nameplate, matched probe/cable length, power, polarity and monitor configuration.

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01	Bently Nevada 330102-04-25-10-02-00	OPEN
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Model-specific engineering questions

Q1. Why must MOD:143416-07 remain attached to Bently Nevada 330180-X1-05?

The modification number is part of the service identity and cannot be replaced by a standard 330180 catalog assumption.

Q2. Which sensing components feed Bently Nevada 330180-X1-05 MOD:143416-07?

Use a matched 3300 XL 8 mm probe and extension cable whose combined length agrees with the installed loop record.

Q3. How does a barrier change the supply requirement for Bently Nevada 330180-X1-05 MOD:143416-07?

Without barriers the supply range is -17.5 to -26 Vdc; with barriers maintain -23 to -26 Vdc, with sensor current no higher than 12 mA.

Q4. What input loading is compatible with the 50-ohm output of Bently Nevada 330180-X1-05 MOD:143416-07?

The monitor and test equipment must accept the sensor's 50 ohm output without loading or distorting the conditioned signal.

SOURCE IDENTIFIER

141194 Rev. AN

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Acceptance reference and related products

Q5. How far may the monitor be wired from Bently Nevada 330180-X1-05 MOD:143416-07?

Field wiring may extend to 305 m (1,000 ft) when the required cable construction, shielding, and routing practices are maintained.

Q6. Which displacement slope should the X1-05 sensor deliver?

With the proper 8 mm transducer chain, expect 7.87 V/mm (200 mV/mil) through the specified linear region.

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01	Bently Nevada 330101-00-60-10-02-05	OPEN
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03	Bently Nevada 330101-00-40-10-02-00	OPEN
04	Bently Nevada 330101-00-40-05-02-00	OPEN
05	Bently Nevada 330101-00-30-10-02-05	OPEN
06	Bently Nevada 330101-00-30-10-02-00	OPEN
07	Bently Nevada 330101-00-20-05-02-00	OPEN
08	Bently Nevada 330101-00-16-10-02-00	OPEN
09	Bently Nevada 330101-00-12-10-02-00	OPEN
10	Bently Nevada 330101-00-08-10-02-05	OPEN
11	Bently Nevada 330101-00-08-10-02-00	OPEN
12	Bently Nevada 330101-00-08-05-02-00	OPEN

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