

APTER POWER PRODUCT MANUAL

330171-XX-XX-10-02-05 MOD:142824-100

3300 5 mm unarmored proximity probe with MOD marking

The 330171-XX-XX-10-02-05 MOD:142824-100 is a Bently Nevada 3300 5 mm proximity-probe marking. Official Datasheet 172036 identifies 330171 as a 1/4-28 UNF probe without armor; the XX unthreaded/case-length fields and MOD 142824-100 require the applicable modification drawing.

Used with a correctly matched extension cable and 3300 5 mm Proximitor Sensor, the probe detects the distance to a conductive shaft or target. The system supports radial vibration, axial position, Keyphasor reference, tachometer, and zero-speed measurements on rotating machinery.

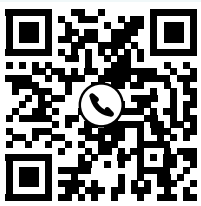
Manufacturer	Bently Nevada
Prepared by	Apter Power
Document ID	AP-B11-04-330171-XX-XX-10-02-05-MOD-142824-100-PM-R1
Revision	R1
Issue date	2026-08-20

APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Five-millimetre sensing. MOD-controlled geometry.

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



SCAN FOR PRODUCT & QUOTE
330171-XX-XX-10-02-05 MOD:142824-100

1. Product Overview and Identity

The 330171-XX-XX-10-02-05 MOD:142824-100 is a Bently Nevada 3300 5 mm proximity-probe marking. Official Datasheet 172036 identifies 330171 as a 1/4-28 UNF probe without armor; the XX unthreaded/case-length fields and MOD 142824-100 require the applicable modification drawing.

Used with a correctly matched extension cable and 3300 5 mm Proximito Sensor, the probe detects the distance to a conductive shaft or target. The system supports radial vibration, axial position, Keyphasor reference, tachometer, and zero-speed measurements on rotating machinery.

Model Configuration

Code	Officially supported interpretation
330171	3300 5 mm probe, 1/4-28 UNF thread, without armor
XX / XX	Unthreaded and overall case-length placeholders; not dimensional values
10	1.0 m (3.3 ft) total probe length
02	Miniature ClickLoc connector without protector, standard cable
05	Multiple approvals
MOD 142824-100	Modification identifier requiring the official MOD drawing

Key Features

- Official 330171 unarmored 1/4-28 UNF probe family
- One-metre lead and connector option verified from fixed codes
- Supports multiple machine-condition measurements
- XX and MOD fields isolated from standard specifications

2. Technical Specifications

Only Bently Nevada-published family or exact-part information is stated. Nonstandard, placeholder, legacy-style, or MOD-controlled fields are identified rather than inferred.

Parameter	Verified value or limitation
Product Type	3300 5 mm unarmored proximity probe
Mounting Thread	1/4-28 UNF
Total Probe Length Code 10	1.0 m (3.3 ft)
Connector Option 02	ClickLoc connector without protector, standard cable
Approval Option 05	Multiple approvals
Matched-System Linear Range	2.0 mm (80 mil)
Nominal Scale Factor	7.87 V/mm (200 mV/mil)
Recommended Gap	1.27 mm (50 mil)
Frequency Response	0 to 10 kHz, +0/-3 dB
Probe Tip Diameter	5.2 mm (0.21 in)
Probe Operating Temperature	-35 C to +177 C
Exact MOD Geometry and Mass	Not published in Datasheet 172036 Rev. T

Configuration-Control Note

Datasheet 172036 identifies 330171 as the unarmored 1/4-28 UNF 5 mm probe family. XX placeholders and MOD 142824-100 are not dimensional values and must be replaced by nameplate/MOD evidence for mechanical installation.

3. Functions, Applications and Components

Core Functions

- Measures dynamic shaft vibration relative to the probe mount
- Measures static shaft or target position
- Provides Keyphasor phase-reference and rotational-speed signals
- Feeds a matched Proximitor Sensor and monitoring channel

Application Areas

Application	System role
Fluid-Film-Bearing Machinery	Measures non-contacting shaft motion
Radial Shaft Vibration	Monitors dynamic shaft displacement
Axial Position	Measures thrust or axial movement
Keyphasor and Speed	Supports phase reference, tachometer, and zero-speed functions

Compatible Components

- 3300 5 mm extension cable selected to complete the required system length
- 3300 5 mm Proximitor Sensor matched to the total system length
- Suitable mounting hardware documented by MOD 142824-100
- Compatible Bently Nevada monitor input and conductive target geometry

Lifecycle Status

Baker Hughes publishes Datasheet 172036 Rev. T for the standard 330171 family. MOD 142824-100 geometry remains controlled by the modification drawing and physical nameplate.

4. Installation Precautions

- Do not use XX as a dimensional value or select mounting hardware from placeholders
- Obtain MOD 142824-100 before determining insertion depth or case clearance
- Match probe, extension cable, and Proximito Sensor total length
- Observe the 25.4 mm minimum cable bend radius and published thread engagement
- Confirm the exact approval marking and applicable installation drawing

STOP - Verify before installation

Datasheet 172036 identifies 330171 as the unarmored 1/4-28 UNF 5 mm probe family. XX placeholders and MOD 142824-100 are not dimensional values and must be replaced by nameplate/MOD evidence for mechanical installation.

Use the physical nameplate and current Bently Nevada documentation as the controlling records.

5. Official Source and Use Notice

Official source

Baker Hughes / Bently Nevada 3300 5 mm Transducer System Datasheet 172036 Rev. T

Apter Power product page

<https://www.apterpower.com/Bently-Nevada/330171-xx-xx-10-02-05-mod-142824-100>

Use Notice

This original Apter Power reference is prepared from the named Bently Nevada source. It is not a manufacturer publication and does not replace the official datasheet, physical nameplate, certificate, MOD or legacy drawing, installation instructions, or machine-builder documentation.

ASK FOR QUOTE

For availability and quotation details, visit www.apterpower.com or contact sales13@apterpower.com.