

APTER POWER

PRODUCT REFERENCE MANUAL

330854-040-00-00

Bently Nevada 3300 XL 25 mm Extension Cable — Code Verification

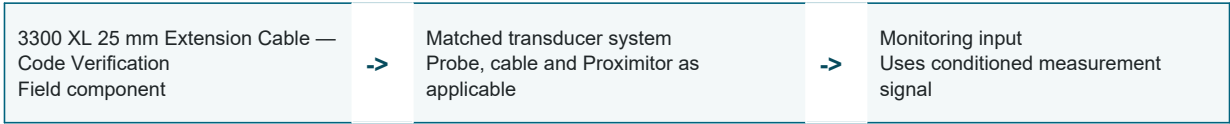
This Apter Power reference manual explains the supplied model, published system function, configuration status, technical data, compatible components and installation checks. It uses manufacturer-published information only.

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1. Product Overview

330854-040-00-00 is a supplied Bently Nevada 3300 XL 25 mm extension-cable identifier with a confirmed 4.0 m length and final no-approvals option. The supplied middle code 00 is not listed in the current cable-type position, which defines only 24 and 25, so the cable construction must be verified from the nameplate.

A verified 4.0 m 330854 cable connects a 1.0 m 25 mm differential-expansion probe to a 5.0 m 330850 Proximitor Sensor, preserving the calibrated total electrical length used to measure turbine rotor-to-casing differential expansion.



2. Model Configuration

330854	3300 XL 25 mm extension cable.
040	4.0 m cable length.
Supplied 00	Not listed in the current armor-and-cable position; current options are 24 high-temperature FluidLoc and 25 armored high-temperature FluidLoc. Verify the physical cable.
Final 00	No approvals.

The final 00 is defined as no approvals. The preceding supplied 00 cable-type code is not defined in the current 330854 ordering table and must be verified.

3. Technical Specifications

Values below are manufacturer-published. System-level values apply only to the complete correctly matched system under the official test conditions.

Manufacturer	Bently Nevada
Product Category	Machinery Monitoring System
Supplied Identifier	330854-040-00-00
Product Type	3300 XL 25 mm Extension Cable
Cable Length	4.0 m (13.1 ft)
Required System Length	5.0 m with a 1.0 m probe
Current Cable-Type Options	24 high-temperature FluidLoc; 25 armored high-temperature FluidLoc
Supplied Cable-Type Code	00 — not defined in current datasheet
Approval Option	00 — No approvals
Cable Capacitance	69.9 pF/m (21.3 pF/ft) typical
Core Resistance	1.0 ±0.25 ohm for 4.0 m
Jacket Resistance	0.3 ±0.1 ohm for 4.0 m
Connector Type	Miniature ClickLoc coaxial, family-level
Connector Protection	Connector protectors standard for current 25 mm system family
Reference Application	Steam turbine differential expansion
System Linear Range	12.7 mm (500 mil), complete system
System Scale Factor	0.787 V/mm (20 mV/mil) nominal
Frequency Response	0 to 2.7 kHz, complete system
Compatible Proximitors	330850 5.0 m system option
Configuration Status	Verify middle cable-type code from nameplate

4. Compatible Components

- A verified 1.0 m 330851 25 mm probe selected for the mounting geometry.
- 330850-50-00 or 330850-51-00 5.0 m panel or DIN Proximitors Sensor.
- 330853 sliding bracket for single or complementary-input DE installations.
- 163854 dial indicator verification kit.

5. Core Functions and Applications

Steam Turbine DE Systems Connects a 25 mm probe near the turbine collar or ramp to the remotely mounted 330850 Proximitor Sensor.	Single-Collar Measurements Carries the probe circuit used to observe one side of a differential-expansion collar.
Complementary Input Systems Two cable assemblies support two probes viewing opposite collar sides when each channel is matched.	Ramp Measurement Systems Routes the probe circuits used for a ramp and radial-compensation measurement arrangement.
Turbine Modernization Forms part of the complete three-component replacement required when upgrading older 7200 or integral DE systems.	Verification and Commissioning Supports installed-system checks with the sliding bracket and dial indicator verification method described by the manufacturer.

6. Installation and Commissioning Checklist

- Verify the middle cable-type code before ordering or installation.
- Use only with a 1.0 m probe and 5.0 m Proximitor Sensor to maintain total length.
- Do not substitute a standard 8 mm or NSv extension cable; 25 mm system components are a distinct matched family.
- Protect ClickLoc connectors from contamination and mechanical strain.
- Final 00 is a no-approvals option and must not be used for hazardous-area service.

This Apter Power manual is a selection aid. It does not replace manufacturer installation drawings, certification documents, site procedures or qualified engineering review.

7. Model-Specific FAQ

1 What is the Bently Nevada 330854-040-00-00?

It is a supplied 3300 XL 25 mm extension-cable identifier with a 4.0 m length and no approvals; the middle cable-type option requires verification.

2 Which code is not confirmed?

The supplied middle 00 is not listed in the current cable-type position. Datasheet 163236 Rev. M lists 24 and 25.

3 What are the current cable-type options?

Option 24 is high-temperature FluidLoc cable; option 25 is armored high-temperature FluidLoc cable.

4 Which system length does a 4 m cable support?

With a 1.0 m 25 mm probe, it forms a 5.0 m total system for a matching 330850 Proximitar Sensor.

5 Does the cable measure differential expansion by itself?

No. It transfers the probe circuit; measurement requires the complete matched probe, cable, Proximitar Sensor, target, and monitoring channel.

6 Can an 8 mm extension cable be substituted?

No. The manufacturer requires 3300 XL 25 mm probe, 330854 cable, and 330850 Proximitar components as a matched family.

7 What does final 00 mean?

It means no approvals in the current ordering table, so it is not an approved hazardous-area configuration.

8 What should be checked on the physical cable?

Verify the full part number, FluidLoc or armored construction, connector protectors, cable condition, length marking, and approval label.

8. Lifecycle and Approval Status

Baker Hughes publishes the 330854 family in datasheet 163236 Rev. M. The supplied middle 00 is not a current cable-type option; exact lifecycle and construction require nameplate or legacy-record verification.

The final 00 is defined as no approvals. The preceding supplied 00 cable-type code is not defined in the current 330854 ordering table and must be verified.

9. Official Manufacturer Sources

Bently Nevada 3300 XL 25 mm Proximity Transducer System Datasheet, 163236 Rev. M

<https://dam.bakerhughes.com/m/69ee6d965e942dae/original/3300-XL-25mm-Proximity-Transducer-System-Datasheet-163236-pdf.pdf>

Source-access date: 12 August 2026. Manufacturer document revisions may change. Confirm the current revision before use.

10. Apter Power Support

Seller	Apter Power
Website	https://www.apterpower.com
Product page	https://www.apterpower.com/Bently-Nevada/330854-040-00-00
Email	sales13@apterpower.com
Phone / WhatsApp	+86 180 3023 5313
Quotation note	Confirm nameplate, condition, included accessories and approval requirement.

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