

INDUSTRIAL AUTOMATION PRODUCT

330104-00-25-50-02-CN

Armored 8 mm Probe

Bently Nevada 330104-00-25-50-02-CN is a 3300 XL 8 mm proximity probe with an M10 x 1 mounting thread, 250 mm overall case length and 5.0 m total system length. It is the armored 330104 configuration with a miniature coaxial ClickLoc connector.

| IDENTITY       | VERIFIED VALUE                                          |
|----------------|---------------------------------------------------------|
| Manufacturer   | Bently Nevada                                           |
| Complete model | 330104-00-25-50-02-CN                                   |
| Product role   | Armored 8 mm Probe                                      |
| System family  | Industrial automation                                   |
| Source record  | Baker Hughes / Bently Nevada publication 141194 Rev. AM |

DOCUMENT SCOPE

Model identity, official technical data, model-specific applications, precautions, FAQ and controlled acceptance records.

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330104-00-25-50-02-CN

# Technical Specifications

| PARAMETER                                        | VERIFIED VALUE                                       |
|--------------------------------------------------|------------------------------------------------------|
| Complete model                                   | 330104-00-25-50-02-CN                                |
| Probe family                                     | 330104 metric standard-mount probe, armored          |
| Probe tip                                        | 8 mm                                                 |
| Mounting thread                                  | M10 x 1                                              |
| Unthreaded length                                | 0 mm                                                 |
| Overall case length                              | 250 mm                                               |
| Total system length                              | 5.0 m                                                |
| Connector option                                 | Miniature coaxial ClickLoc, standard cable           |
| Approval option                                  | CN order suffix; verify the current approval marking |
| Calibration target                               | AISI 4140 steel                                      |
| Matched-system linear range                      | 2 mm (80 mils)                                       |
| Matched-system scale factor                      | 7.87 V/mm (200 mV/mil), nominal                      |
| Matched-system frequency response                | 0 to 10 kHz, +0/-3 dB, with approved field wiring    |
| Standard probe operating and storage temperature | -52 to +177 deg C                                    |

## ENGINEERING BOUNDARY

Use 330104-00-25-50-02-CN only with the documented 3300 XL 8 mm probe, extension cable and Proximitor Sensor combination. Verify the 0 mm unthreaded section, 250 mm case, 5.0 m electrical chain, connector condition, target material and static gap before release.

## Related Products on Apter Power

| MODEL                                  | APTER POWER PAGE                                            |
|----------------------------------------|-------------------------------------------------------------|
| Bently Nevada 106765-30                | <a href="#">View Bently Nevada 106765-30</a>                |
| Bently Nevada 106M2686-01              | <a href="#">View Bently Nevada 106M2686-01</a>              |
| Bently Nevada 107540-01A               | <a href="#">View Bently Nevada 107540-01A</a>               |
| Bently Nevada 109548-01-P1407030-00100 | <a href="#">View Bently Nevada 109548-01-P1407030-00100</a> |

# System Role and Common Applications

Bently Nevada 330104-00-25-50-02-CN is a 3300 XL 8 mm proximity probe with an M10 x 1 mounting thread, 250 mm overall case length and 5.0 m total system length. It is the armored 330104 configuration with a miniature coaxial ClickLoc connector.

**FUNCTION 1**  
M10 x 1 metric probe mounting

**FUNCTION 2**  
250 mm overall case configuration

**FUNCTION 3**  
5.0 m matched system length

**FUNCTION 4**  
Miniature ClickLoc connection, armored

| APPLICATION            | ENGINEERING CONTEXT                                                                  |
|------------------------|--------------------------------------------------------------------------------------|
| Radial shaft vibration | Measures dynamic shaft-relative motion through the matched 3300 XL transducer chain. |
| Axial position         | Measures static shaft position with the approved target, bracket and gap.            |
| Keyphasor reference    | Supports speed and phase-reference measurement in the documented arrangement.        |
| Machinery protection   | Provides non-contact probe input to a compatible Bently Nevada monitor channel.      |

**ACCEPTANCE DUTY**  
  
Confirm identity, interface, companion hardware, configured values and controlled functional response before release.

# Engineering Precautions and FAQ

| NO. | PRECAUTION                                                                 |
|-----|----------------------------------------------------------------------------|
| 1   | Verify the complete 330104-00-25-50-02-CN marking before work.             |
| 2   | Confirm the M10 x 1 thread and 250 mm case length.                         |
| 3   | Preserve the 5.0 m total probe, extension-cable and Proximitor length.     |
| 4   | Protect the 8 mm tip and ClickLoc connector from impact and contamination. |
| 5   | Check bracket rigidity, thread engagement and cable routing.               |
| 6   | Use the documented AISI 4140 target or an approved target correction.      |
| 7   | Set the static probe gap only with the current manufacturer procedure.     |
| 8   | Verify gap voltage, polarity and dynamic response before release.          |

| QUESTION                                                                      | ANSWER                                                                                                       |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| What is Bently Nevada 330104-00-25-50-02-CN?                                  | It is a 330104 3300 XL 8 mm M10 x 1 proximity probe supplied armored.                                        |
| What mechanical lengths are encoded in Bently Nevada 330104-00-25-50-02-CN?   | The ordering code specifies 0 mm unthreaded length and 250 mm overall case length.                           |
| What total system length is required for Bently Nevada 330104-00-25-50-02-CN? | Option 50 specifies a 5.0 m total transducer-system length.                                                  |
| Which connector is used by Bently Nevada 330104-00-25-50-02-CN?               | Option 02 specifies the miniature coaxial ClickLoc connector with standard cable and no connector protector. |

## Related Products on Apter Power

| MODEL                   | APTER POWER PAGE                             |
|-------------------------|----------------------------------------------|
| Bently Nevada 125704-01 | <a href="#">View Bently Nevada 125704-01</a> |
| Bently Nevada 125728-01 | <a href="#">View Bently Nevada 125728-01</a> |
| Bently Nevada 125736-01 | <a href="#">View Bently Nevada 125736-01</a> |
| Bently Nevada 125760-01 | <a href="#">View Bently Nevada 125760-01</a> |
| Bently Nevada 126632-01 | <a href="#">View Bently Nevada 126632-01</a> |

# FAQ, Related Products and Official Sources

| QUESTION                                                                         | ANSWER                                                                                                                                                               |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Which mounting thread is used by Bently Nevada 330104-00-25-50-02-CN?            | The 330104 metric probe uses an M10 x 1 thread.                                                                                                                      |
| Which approval option applies to Bently Nevada 330104-00-25-50-02-CN?            | The final suffix is CN; the supported interpretation is cn order suffix; verify the current approval marking.                                                        |
| Which matched-system performance applies to Bently Nevada 330104-00-25-50-02-CN? | The official 3300 XL 8 mm system publishes a 2 mm linear range, 7.87 V/mm nominal scale factor and 0 to 10 kHz response when the complete matched system is used.    |
| What confirms commissioning of Bently Nevada 330104-00-25-50-02-CN?              | The full ordering code, mounting, electrical length, target, static gap, polarity and dynamic channel response must all agree with the approved installation record. |

| MODEL                                   | APTER POWER PAGE                                             |
|-----------------------------------------|--------------------------------------------------------------|
| Bently Nevada 126648-01                 | <a href="#">View Bently Nevada 126648-01</a>                 |
| Bently Nevada 128031-01C                | <a href="#">View Bently Nevada 128031-01C</a>                |
| Bently Nevada 128031-01D                | <a href="#">View Bently Nevada 128031-01D</a>                |
| Bently Nevada 128275-01                 | <a href="#">View Bently Nevada 128275-01</a>                 |
| Bently Nevada 128275-01E                | <a href="#">View Bently Nevada 128275-01E</a>                |
| Bently Nevada 128275-01F-C2-A0130944-01 | <a href="#">View Bently Nevada 128275-01F-C2-A0130944-01</a> |
| Bently Nevada 128276-01E-C2-A0131151-01 | <a href="#">View Bently Nevada 128276-01E-C2-A0131151-01</a> |
| Bently Nevada 128718-01                 | <a href="#">View Bently Nevada 128718-01</a>                 |
| Bently Nevada 129478-01                 | <a href="#">View Bently Nevada 129478-01</a>                 |

## MANUFACTURER SOURCE RECORDS

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

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