

## APTER POWER

COMPLETE PRODUCT INFORMATION

# 330106-05-30-05-02-00

### 3300 XL 8 mm Metric Reverse-Mount Proximity Probe

Bently Nevada 330106-05-30-05-02-00 is a metric reverse-mount 3300 XL 8 mm proximity probe. It converts shaft-to-probe displacement into the electrical input used by a matched Proximitor Sensor and machinery-protection channel.

#### PRODUCT SNAPSHOT

**BRAND**

Bently Nevada

**FAMILY**

3300 XL 8 mm Proximity Transducer System

**PART**

330106-05-30-05-02-00

**ORIGIN / HS**

USA / 8537101190

#### APTER POWER SALES TEAM

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330106-05-30-05-02-00

PRODUCT OVERVIEW

Bently Nevada 330106-05-30-05-02-00 is a metric reverse-mount 3300 XL 8 mm proximity probe. It converts shaft-to-probe displacement into the electrical input used by a matched Proximitor Sensor and machinery-protection channel.

1 Places the probe connector and lead on the service side of a reverse-mount sleeve

2 Detects shaft displacement without physical contact

3 Operates as the sensing element of a matched 3300 XL 8 mm transducer loop

4 Supports constrained bearing-housing installations requiring a long metric reverse-mount body

SYSTEM COMPONENTS

3300 XL reverse-mount sleeve

3300 XL 8 mm Proximitor Sensor

matched extension cable for the engineered system length

compatible Bently Nevada monitor channel

RELATED PRODUCTS ON APTER POWER

| MODEL              | SYSTEM ROLE                    | APTER POWER PAGE                  |
|--------------------|--------------------------------|-----------------------------------|
| 3500/20 125744-02  | Rack interface module          | <a href="#">Open product page</a> |
| 3500/40M 176449-01 | Proximitor monitor             | <a href="#">Open product page</a> |
| 3500/45 140072-04  | Position monitor configuration | <a href="#">Open product page</a> |
| 3500/60 163179-01  | Temperature monitor            | <a href="#">Open product page</a> |
| 3500/64M 140734-05 | Dynamic pressure monitor       | <a href="#">Open product page</a> |

# TECHNICAL DATA

| PARAMETER              | VALUE                      |
|------------------------|----------------------------|
| Probe series           | 3300 XL 8 mm               |
| Mounting execution     | Reverse mount              |
| Probe body thread      | M10 x 1                    |
| Unthreaded length      | 50 mm                      |
| Overall case length    | 300 mm                     |
| Total probe length     | 0.5 m                      |
| Connector              | Miniature coaxial ClickLoc |
| Cable option           | Standard cable             |
| Agency approval option | Not required               |

| PARAMETER                         | VALUE                 |
|-----------------------------------|-----------------------|
| Nominal probe DC resistance       | 7.45 +/- 0.50 Ohm     |
| Probe case-to-lead tensile rating | 330 N maximum         |
| Connector tensile rating          | 270 N maximum         |
| Minimum cable bend radius         | 25.4 mm               |
| Standard probe temperature        | -52 to +177 degC      |
| Matched-system linear range       | 2 mm                  |
| Incremental scale factor          | 7.87 V/mm nominal     |
| Frequency response                | 0 to 10 kHz, +0/-3 dB |
| Minimum flat target diameter      | 15.2 mm               |

## TECHNICAL NOTE

Set the reverse-mount sleeve and insertion depth before securing the 300 mm body, then route the 0.5 m lead without loading the ClickLoc termination. Verify the complete system length, static gap and monitor scaling before enabling protection.

# APPLICATIONS & PRECAUTIONS

## COMMON APPLICATIONS

### Reverse-mount radial vibration measurement

Places the probe connector and lead on the service side of a reverse-mount sleeve

### Restricted-access bearing housing

Detects shaft displacement without physical contact

### Axial position monitoring

Operates as the sensing element of a matched 3300 XL 8 mm transducer loop

### Shaft centerline observation

Supports constrained bearing-housing installations requiring a long metric reverse-mount body

## PRODUCT PRECAUTIONS

- 1 Verify the complete 330106-05-30-05-02-00 marking and reverse-mount sleeve before work.
- 2 Place the machine and connected protection channel in the approved maintenance state.
- 3 Prevent the long probe body from contacting the shaft while setting insertion depth.
- 4 Keep the M10 x 1 thread, PPS tip and sleeve surfaces free from burrs and contamination.
- 5 Maintain the published cable bend radius and do not load the ClickLoc connector.
- 6 Match probe, extension cable and Proximity Sensor to the engineered total system length.
- 7 Set the static operating gap inside the documented linear region.
- 8 Prove polarity, dynamic response and alarm action before returning protection service.

# ENGINEER FAQ

## Q1 Why does 330106-05-30-05-02-00 use a reverse-mount construction?

The reverse-mount execution places the lead connection on the service side of its sleeve for installations where probe access is constrained.

## Q2 What thread and fixed body dimensions identify 330106-05-30-05-02-00?

The official ordering code specifies an M10 x 1 body with the fixed 05-30 reverse-mount geometry.

## Q3 What cable length is supplied on 330106-05-30-05-02-00?

Suffix 05 identifies a 0.5 m total probe length.

## Q4 Does 330106-05-30-05-02-00 use FluidLoc cable?

No. Connector option 02 specifies a miniature ClickLoc coaxial connector with standard cable.

## Q5 Which approval option applies to 330106-05-30-05-02-00?

The final 00 code means an agency approval option is not required for this execution.

## Q6 How should 330106-05-30-05-02-00 be gapped?

Set the matched system within its documented linear region while maintaining shaft clearance through the full machine movement range.

## Q7 Can 330106-05-30-05-02-00 be connected to any Proximity Sensor?

Use the Proximity and extension-cable combination specified for the engineered 3300 XL 8 mm system length and target material.

## Q8 What commissioning checks follow replacement of 330106-05-30-05-02-00?

Verify insertion depth, cable routing, bias voltage, polarity, dynamic response and alarm action before restoring protection.