

YB (YEKAN Replacement BENTLY NEVADA) 3300XL 8mm Series Proximity System

Datasheet

Rev. V1.1

Description

YB is the production series of proximity system equipment of Yekan company. YB cables, probes, and transducers are designed as direct, compatible replacements for Bently Nevada proximity systems.

YB probes, extension cables, and transducers support proximity system series:

- Bently Nevada 3000 & 7000 Series
- Bently Nevada 7200 Series
- Bently Nevada 3300 Series
 - 3300 5mm Series
- Bently Nevada 3300XL Series
 - 3300XL 8mm Series
 - 3300XL 11mm Series
 - 3300XL NSV Series

In this datasheet, we will specifically submit the replacement options for the Bently Nevada 3300XL 8mm Series.



YB For 3300XL 8mm series Proximity System

Ordering Information

3300XL 8mm Standard Proximity Probe **YB/330AAA-BB-CC-DD-EE-00**

| Model No. 330AAA | Threads | Unthreaded Length BB | Overall Case Length CC | Total Length DD | Connector Option EE | Armor |
|---------------------|---------|--|---|--|--|-------|
| YB/330101 | 3/8"-24 | Order in increments of 0.1 in. Length configurations: Maximum unthreaded length: 8.8 in. Minimum unthreaded length: 0.0 in. Example: 0 4 = 0.4 in. | Order in increments of 0.1 in. Standard thread configurations: Maximum case length: 9.6 in. Minimum case length: 0.8 in. Example: 2 4 = 2.4 in. | 05=0.5 meter 10=1.0 meter | Miniature coaxial ClickLoc connector 01: with connector protector, standard cable | NO |
| YB/330102 | | | | | 02: standard cable | YES |
| YB/330103 | M10*1 | Order in increments of 10 mm Length configurations: Maximum unthreaded length: 230 mm Minimum unthreaded length: 0 mm Example: 0 6 = 60 mm | Order in increments of 10 mm Metric thread configurations: Maximum case length: 250 mm Minimum case length: 20 mm Example: 0 6 = 60 mm | 15=1.5 meter 20=2.0 meter 30=3.0 meter 50=5.0 meter 90=9.0 meter | 11: with connector protector, FluidLoc cable | NO |
| YB/330104 | | | | | 12: FluidLoc cable | YES |
| *YB/330105 | 3/8"-24 | 0 2 = 0.2 in. | 1 2 = 1.2 in. | Miniature coaxial ClickLoc connector 02: standard cable 12: FluidLoc cable | | NO |
| *YB/330106 | M10*1 | 0 5 = 5 mm | 3 0 = 30 mm | | | |

*3300XL 8mm Reverse Mount Proximity Probe **YB/330105-02-12-DD-EE-00 / YB/330106-05-30-DD-EE-00**

YB For 3300XL 5/8mm series Proximity System

3300XL 5/8mm Standard Extension Cable YB/330130-AAA-BB-00

| Cable length |
|--|
| AAA |
| 030= 3.0 m |
| 035= 3.5 m |
| 040= 4.0 m |
| 045= 4.5 m |
| 060= 6.0 m |
| 070= 7.0 m |
| 075= 7.5 m |
| 080= 8.0 m |
| 085= 8.5 m |
| Connector Protector and Cable |
| BB |
| 00 = Standard cable |
| 01 = Armored cable |
| 02 = Standard cable with connector protector |
| 03 = Armored cable with connector protector |
| 10 = FluidLoc cable |
| 11 = Armored FluidLoc cable |
| 12 = FluidLoc cable with connector protector |
| 13 = Armored FluidLoc cable with connector protector |

3300XL 5/8mm Proximity/Transducer YB/330180-AA-00

| System Length and Mounting Option |
|--|
| AA |
| 10 = 1.0 meter / panel mount |
| 11 = 1.0 meter / DIN mount |
| 12 = 1.0 meter / no mounting hardware |
| 50 = 5.0 meters / panel mount |
| 51 = 5.0 meters / DIN mount |
| 52 = 5.0 meters / no mounting hardware |
| 90 = 9.0 meters / panel mount |
| 91 = 9.0 meters / DIN mount |
| 92 = 9.0 meters / no mounting hardware |

Specifications

YB 3300XL 5/8mm series Proximity System

Incremental Scale Factor (ISF)

| | |
|-------------------------------------|---|
| Standard 5 or 1 meter System | 7.87 V/mm (200 mV/mil) \pm 5% including interchangeability error when measured in increments of 0.25 mm (10 mils) over the 80 mil linear range from 0°C to +45°C (+32°F to +113°F). |
| Standard 9 meter System | 7.87 V/mm (200 mV/mil) \pm 6.5% including interchangeability error when measured in increments of 0.25 mm (10 mils) over the 80 mil linear range from 0°C to +45°C (+32°F to +113°F). |

Shaft Diameter

| | |
|----------------------------|----------------|
| Minimum | 50.8 mm (2 in) |
| Recommended Minimum | 76.2 mm (3 in) |

Mechanical

| | |
|----------------------------|--|
| Probe Tip Material | Polyether ether ketone (PEEK) |
| Probe Case Material | AISI 304 stainless steel (SST) |
| Connector Material | Gold-plated brass or goldplated beryllium copper |

Probe Temperature Range

| | |
|-----------------------|-----------------------------------|
| Standard Probe | -52°C to +177°C (-62°F to +350°F) |
|-----------------------|-----------------------------------|

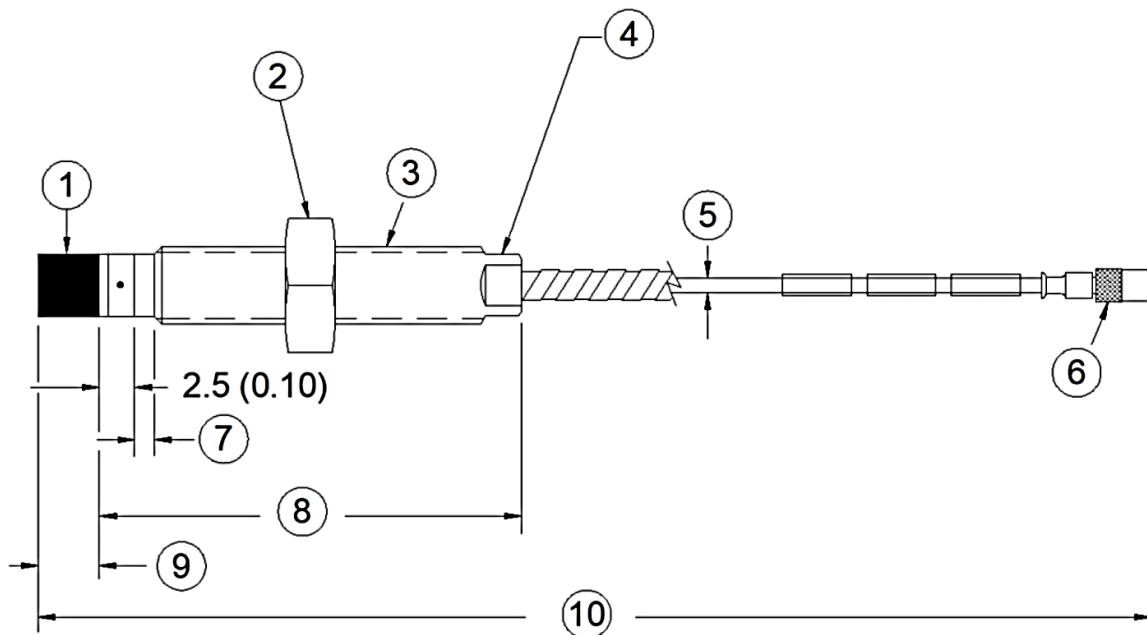
Extension Cable Temperature Range

| | |
|-----------------------|-----------------------------------|
| Standard Cable | -52°C to +177°C (-62°F to +350°F) |
|-----------------------|-----------------------------------|

Proximity Sensor Temperature Range

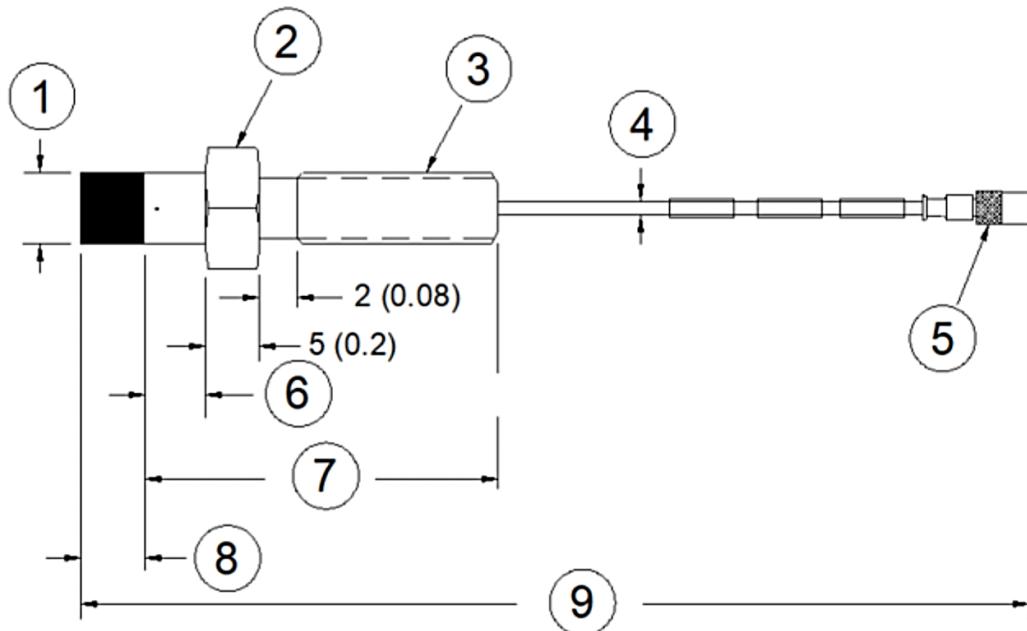
| | |
|------------------------------|-----------------------------------|
| Operating Temperature | -52°C to +100°C (-62°F to +212°F) |
| Storage Temperature | -52°C to +105°C (-62°F to +221°F) |

Figures



1. Probe Tip
2. Hex Nut
3. Case thread
4. Wrench Flats
5. Cable
6. Miniature male coaxial connector
7. Unthreaded length
8. Case length
9. 6.0 mm (0.235 in) maximum
10. Total length

Figure 1. YB 3300XL 8mm Standard Probe



1. Probe Tip 8.0 mm (0.31 in) diameter
2. Hex Nut
3. Case thread
4. Cable
5. Miniature male coaxial connector
6. Unthreaded length
7. Case length
8. 6.0 mm (0.235 in) maximum
9. Total length

Figure 2. YB 3300XL 8mm Reverse Mount Probe

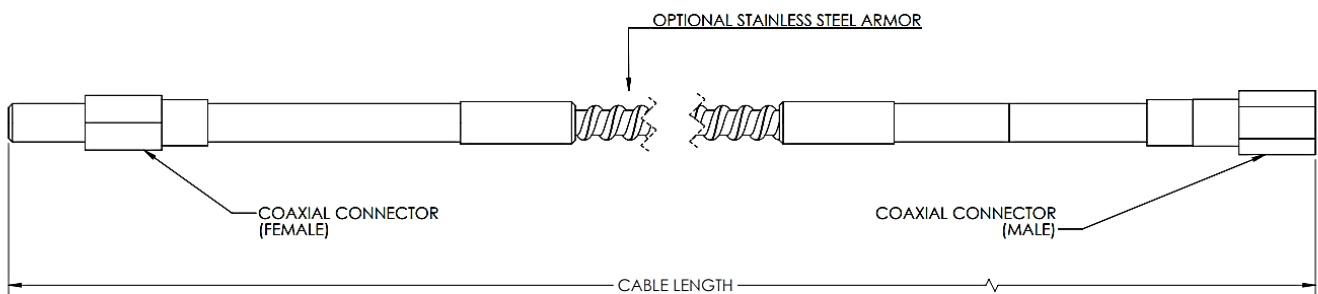


Figure 3. YB 3300XL 5/8mm Extension Cable

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Yekan Tajhiz company is acting in the field of supply, consulting and engineering services associated with vibration measurement and monitoring equipment and works as the middle east representative of Bently Nevada, Metrix and CTC brands.

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