

# YB (YEKAN Replacement BENTLY NEVADA)

## 3300 5mm Series Proximity System

Datasheet

Rev. V1.1

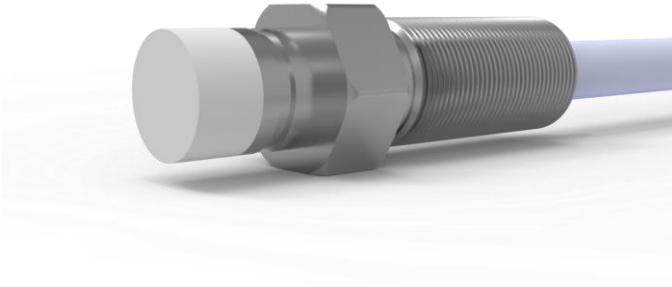
### Description

**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 3300 5mm Series.



**Yekan**

[www.Yekan-Vibro.com](http://www.Yekan-Vibro.com)

## YB For 3300 5mm series Proximity System

### Ordering Information

3300 5mm 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/330171	1/4"-28	Length configurations: Maximum unthreaded length: 8 8 = 8.8 in. Minimum unthreaded length: 0 0 = 0.0 in. Example: 0 4 = 0.4 in.	Order in increments of 0.1 in. Threaded Length configurations: Maximum unthreaded length: 9 6 = 9.6 in. Minimum unthreaded length: 0 8 = 0.8 in. Example: 2 4 = 2.4 in.	05=0.5 meter  10=1.0 meter  20=2.0 meter  50=5.0 meter  90=9.0 meter	Miniature coaxial ClickLoc connector	NO
YB/330172					01: with connector protector, standard cable  02: standard cable	YES
YB/330173	M8*1	Order in increments of 0.1 in. Threaded Length configurations: Maximum unthreaded length: 9 6 = 9.6 in. Minimum unthreaded length: 0 8 = 0.8 in. Example: 2 4 = 2.4 in.	Order in increments of 10mm Metric thread configurations: Maximum unthreaded length: 2 5 = 250mm Minimum unthreaded length: 0 2 = 20mm Example: 0 6 = 60mm		11: with connector protector, FluidLoc cable	NO
YB/330174					12: FluidLoc cable	YES

## YB For 3300 5mm series Proximity System

### 3300 XL Standard Extension Cable **YB/330130-AAA-BB-00**

<b>Cable length AAA</b>
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
<b>Connector Protector and Cable BB</b>
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

### 3300 XL Proximito/Transducer **YB/330180-AA-00**

<b>System Length and Mounting Option AA</b>
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 3300 XL series Proximity System

#### Incremental Scale Factor (ISF)

<b>Standard 5 or 1 meter System</b>	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).
<b>Standard 9 meter System</b>	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

<b>Minimum</b>	50.8 mm (2 in)
<b>Recommended Minimum</b>	76.2 mm (3 in)

#### Mechanical

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

#### Probe Temperature Range

<b>Standard Probe</b>	-52°C to +177°C (-62°F to +350°F)
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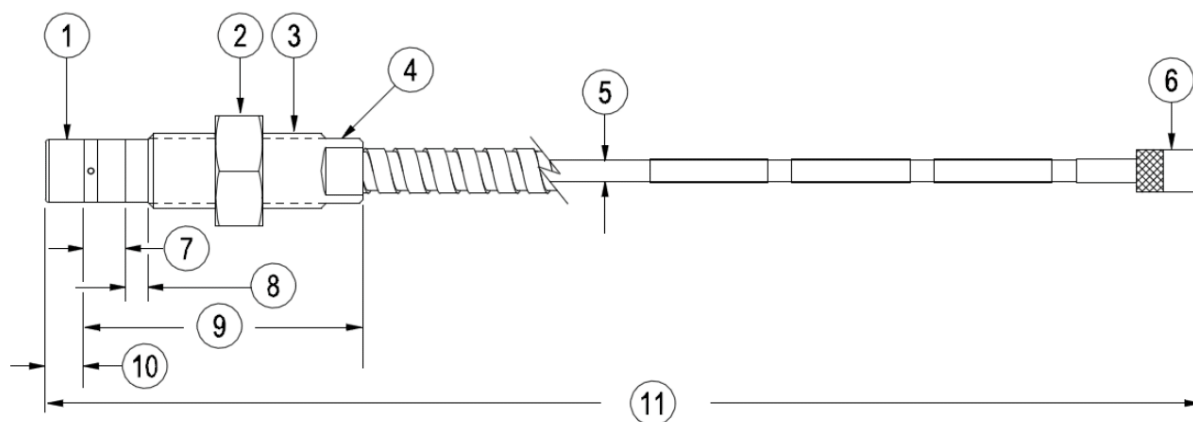
#### Extension Cable Temperature Range

<b>Standard Cable</b>	-52°C to +177°C (-62°F to +350°F)
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#### Proximitors Sensor Temperature Range

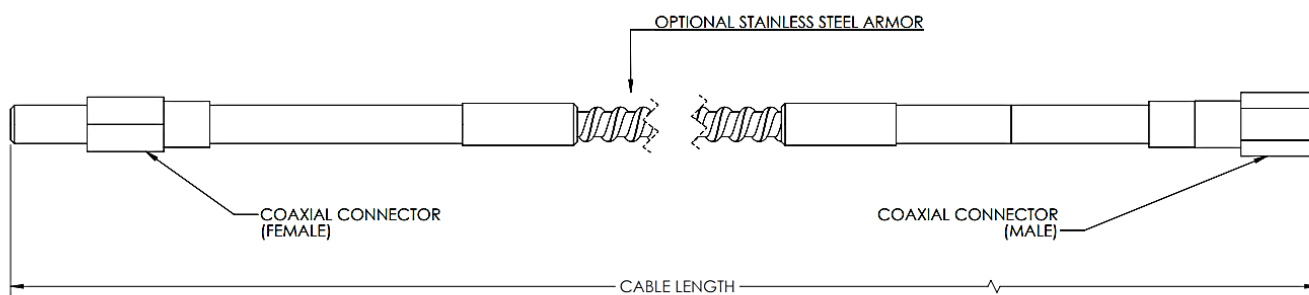
<b>Operating Temperature</b>	-52°C to +100°C (-62°F to +212°F)
<b>Storage Temperature</b>	-52°C to +105°C (-62°F to +221°F)

## Figures



1. Probe tip 5.2mm (0,21 in) diameter
2. Hex Nut
3. Case thread
4. Wrench Flats
5. Cable
6. Miniature male coaxial connector
7. 3.2 [0.13in]
8. Unthreaded length
9. Case length
10. 6.0 mm (0.235 in) maximum
11. Total length

**Figure 1. YB 3300 5mm Standard Probe**



**Figure 2. YB 3300 XL 5/8 mm 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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