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.

YB For 3300 5mm series Proximity System

Ordering Information

3300 5mm Standard Proximity Probe **YB/330AAA-BB-CC-DD-EE-00**

<table>
<tr><th>Model No.
330AAA</th><th>Threads</th><th>Unthreaded Length
BB</th><th>Overall Case Length
CC</th><th>Total Length
DD</th><th>Connector Option
EE</th><th>Armor</th></tr>
<tr><td>YB/330171</td><td rowspan="2">1/4''-28</td><td rowspan="2">Length configurations:
Maximum unthreaded length:
8 8 = 8.8 in.
Minimum unthreaded length:
0 0 = 0.0 in.
Example:
0 4 = 0.4 in.</td><td rowspan="2">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.</td><td rowspan="5">05=0.5 meter
10=1.0 meter
20=2.0 meter
50=5.0 meter
90=9.0 meter</td><td rowspan="5">Miniature coaxial ClickLoc connector

01: with connector protector, standard cable

02: standard cable

11: with connector protector, FluidLoc cable

12: FluidLoc cable</td><td>NO</td></tr>
<tr><td>YB/330172</td><td>YES</td></tr>
<tr><td>YB/330173</td><td rowspan="2">M8*1</td><td rowspan="2">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.</td><td rowspan="2">Order in increments of 10mm Metric thread configurations:
Maximum unthreaded length:
2 5 = 250mm
Minimum unthreaded length:
0 2 = 20mm
Example:
0 6 = 60mm</td><td>NO</td></tr>
<tr><td>YB/330174</td><td>YES</td></tr>
</table>

YB For 3300 5mm series Proximity System

3300 XL 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

3300 XL Proximitor/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 3300 XL series Proximity System

Incremental Scale Factor (ISF)

Standard 5 or 1 meter System	7.87 V/mm (200 mV/mil) ± 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) ± 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)

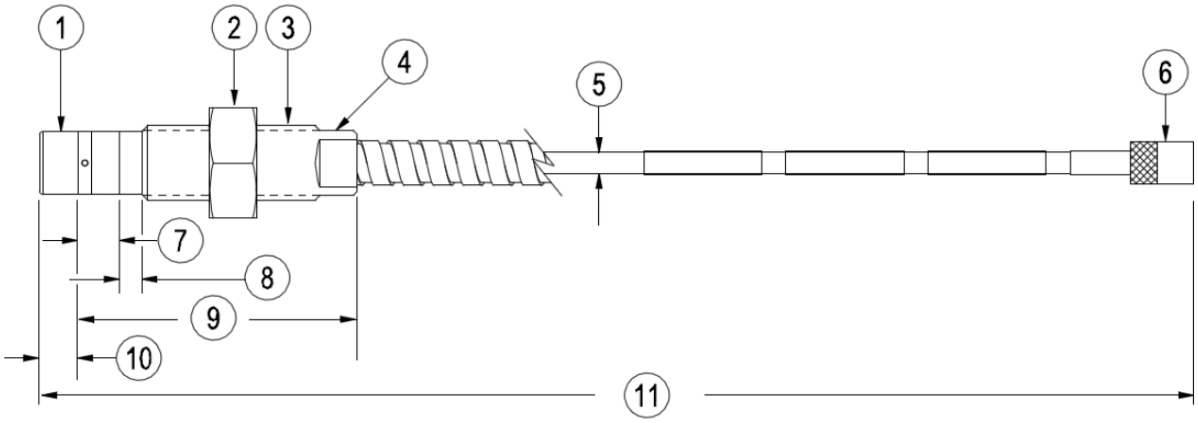
Extension Cable Temperature Range

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

Proximitor 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 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

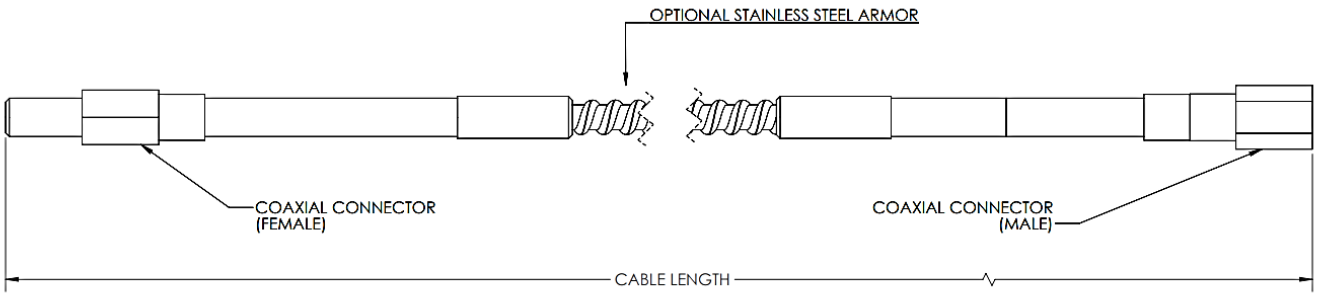


Figure 2. YB 3300 XL 5/8 mm Extension Cable

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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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