YB (YEKAN Replacement BENTLY NEVADA) 3300XL NSV 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 NSV Series.

YB For 3300XL NSV series Proximity System

Ordering Information

3300XL NSV 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/330901</td><td rowspan="2">1/4''-28</td><td rowspan="4">Order in increments of 0.1 in
Length configurations:
Maximum unthreaded length: 9.2 in
Minimum unthreaded length: 0.0 in
Example: 04 = 0.4 in</td><td rowspan="4">Order in increments of 0.1 in
Threaded length configurations:
Maximum case length: 9.9 in
Minimum case length: 0.8 in
Example:
2 4 = 2.4 in</td><td rowspan="11">05=0.5 meter
10=1.0 meter
50=5.0 meter
70=7.0 meter</td><td rowspan="8">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/330902</td><td>YES</td></tr>
<tr><td>YB/330908</td><td rowspan="2">3/8''-24</td><td>NO</td></tr>
<tr><td>YB/330909</td><td>YES</td></tr>
<tr><td>YB/330903</td><td rowspan="2">M8*1</td><td rowspan="4">Order in increments of 10 mm.
Length configuration:
Maximum unthreaded length: 230 mm
Minimum unthreaded length: 0 mm
Example: 06 = 60 mm</td><td rowspan="4">Order in increments of 10 mm.
Metric thread configurations:
Maximum length: 250 mm
Minimum length: 20 mm
Example:
06 = 60 mm</td><td>NO</td></tr>
<tr><td>YB/330904</td><td>YES</td></tr>
<tr><td>YB/330905</td><td rowspan="2">M10*1</td><td>NO</td></tr>
<tr><td>YB/330910</td><td>YES</td></tr>
<tr><td>*YB/330906</td><td>3/8''-24</td><td>0 2 = 0.2 in.</td><td>1 2 = 1.2 in.</td><td rowspan="2">Miniature coaxial ClickLoc connector
02: standard cable
12: FluidLoc cable</td><td rowspan="2">NO</td></tr>
<tr><td>*YB/330907</td><td>M10*1</td><td>05 = 5 mm</td><td>30 = 30 mm</td></tr>
</table>

*3300XL NSV Reverse Mount Proximity Probe **YB/330906-02-12-DD-EE-00**

*3300XL NSV Reverse Mount Proximity Probe **YB/330907-05-30-DD-EE-00**

YB For 3300XL NSV series Proximity System

3300XL NSV Extension Cable **YB/330930-AAA-BB-00**

Cable length **AAA**
040= 4.0 m
045= 4.5 m
060= 6.0 m
065= 6.5 m
Connector and Cable Option **BB**
00 = Without stainless steel armor
01 = With stainless steel armor, with FEP jacket
02 = With stainless steel armor, without FEP jacket
03 = Without stainless steel armor, with connector protector
04 = With stainless steel armor, with FEP jacket, with connector protector
05 = With stainless steel armor, without FEP jacket, with connector protector
06 = FluidLoc cable without stainless steel armor
07 = FluidLoc cable with stainless steel armor, with FEP jacket
08 = FluidLoc cable with stainless steel armor, without FEP jacket
09 = FluidLoc without stainless steel armor, with connector protector
10 = FluidLoc cable with stainless steel armor, with FEP jacket, with connector protector
11 = FluidLoc cable with stainless steel armor, without FEP jacket, with connector protector

3300XL NSV Proximitor/Transducer **YB/330980-AA-00**

System Length and Mounting Option **AA**
50 = 5.0 meters / panel mount
51 = 5.0 meters / DIN mount
52 = 5.0 meters / no mounting hardware
70 = 7.0 meters / panel mount
71 = 7.0 meters / DIN mount
72 = 7.0 meters / no mounting hardware

Specifications

YB 3300XL NSV series Proximity System

Incremental Scale Factor (ISF)

Standard 5 or 7 meter System	7.87 V/mm (200 mV/mil) +12.5%/-20% including interchangeability error when measured in increments of 0.25 mm (10 mils) over the 1.5 mm (60 mil) linear range

Shaft Diameter

Minimum (standard X-Y probe configuration)	30 mm (1.2 in)
Minimum (X-Y proximity probes offset axially by 23 mm [0.9 in])	20 mm (0.8 in)

Mechanical

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

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

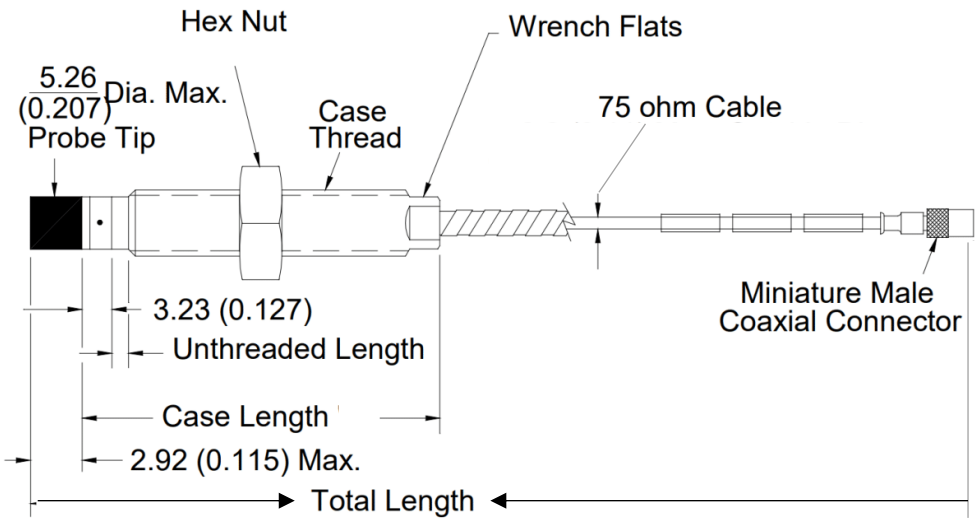


Figure 1. YB 3300XL NSV Standard Probe

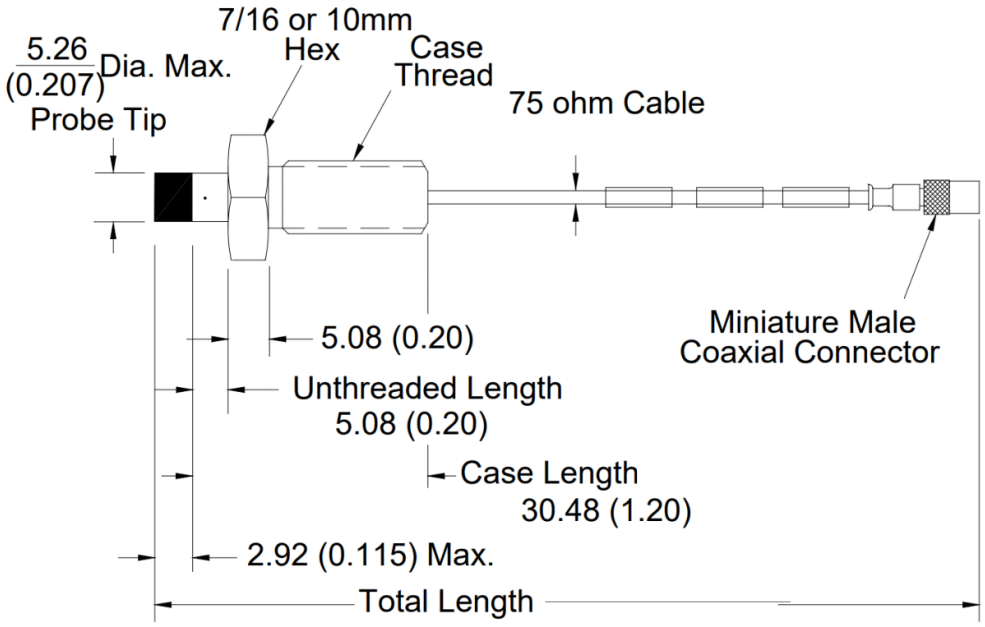


Figure 2. YB 3300XL NSV Reverse Mount Probe

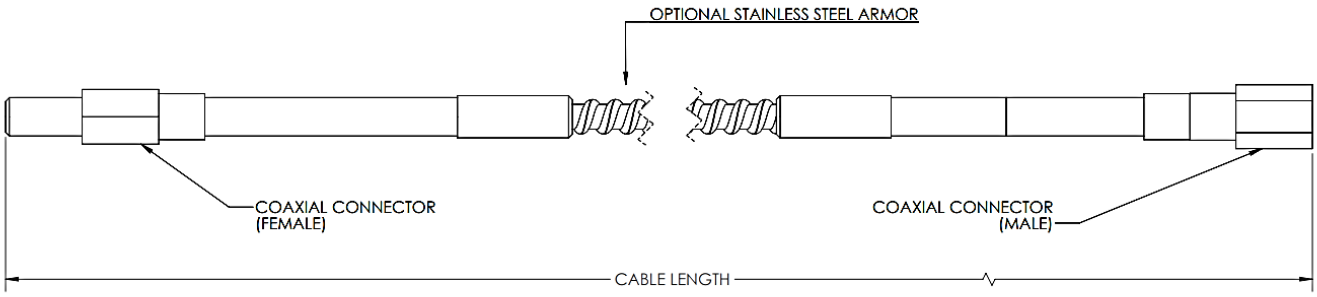


Figure 3. YB 3300XL NSV Extension Cable

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