YB (YEKAN Replacement BENTLY NEVADA) 3000 & 7000 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 3000 and 7000 Series.

YB For 3000 & 7000 series Proximity System

Ordering Information

3000 & 7000 Standard Proximity Prob **YB/AAAAA-BB-CC-DD-02**

Model No. AAAAA	Tip Diameter	threads	Unthreaded Length BB	Case Length CC	Probe Length DD	Armor
YB/30000	0.300" (≈8mm)	3/8"-24	Increments of 0.5 in. Maximum= case length minus 1 in.	10=1 in. (min) 30= 3 in. (standard) 95= 9.5 in. (max) Even increments only	06 = 6 12 = 12 18 = 18 24 = 24 30 = 30 36 = 36 Must exceed case length by 4.75 in. min.	NO
YB/30001						YES
YB/30011		M10*1	Increments of 10 mm. Maximum= case length minus 20 mm.	02= 20mm. (min) 07= 70mm. (standard) 25= 250mm. (max)		NO
YB/30012						YES
YB/19000	0.190" (≈5mm)	1/4"-28	Increments of 0.5 in. Maximum= case length minus 1 in.	10=1 in. (min) 30= 3 in. (standard) 95= 9.5 in. (max) Even increments only		NO
YB/19001						YES
YB/19007		M8*1	Increments of 10 mm. Maximum= case length minus 20 mm.	02= 20mm. (min) 07= 70mm. (standard) 25= 250mm. (max)		NO
YB/19008						YES
*YB/30004	0.300" (≈8mm)	3/8"-24	02= 0.2 in.	12= 1.2 in.		NO
*YB/19004	0.19" (≈5mm)					

*3000 & 7000 series Reverse Mount Proximity Prob **YB/AAAAA-02-12-DD-02**

3000 & 7000 Extension Cable **YB/2789-AAA** (no armor) / **YB/4454-AAA** (armored)

Probe length	Cable length for 15 ft. systems AAA	Cable length for 20 ft. systems AAA
6 in.	168 in.	228 in.
12 in.	156 in.	216 in.
18 in.	144 in.	204 in.
24 in.	132 in.	192 in.
30 in.	120 in.	180 in.
36 in.	108 in.	168 in.
For probe lengths not listed, double the probe's desired physical length in inches and substract from 180 in. for a 15 ft. system or from 240 in. for a 20 ft. system to get the correct extension cable length.		

YB 3000 & 7000 Proximitor/Transducer

3000 Proximitor/Tranducer	System length	Prob tip diameter
YB/20929-01 (3115-2800-300) (3115-300)	15 Feet	300 (≈8mm)
YB/20929-02 (3115-2800-190) (3115-190)		190 (≈5mm)
YB/20929-03 (3120-2800-300) (3120-300)	20 Feet	300 (≈8mm)
YB/20929-04 (3120-2800-190) (3120-190)		190 (≈5mm)

7000 Proximitor/Tranducer	System length	Prob tip diameter
YB/12237-01 (7115-2900-300) (7115-300)	15 Feet	300 (≈8mm)
YB/12237-02 (7120-2900-300) (7120-300)	20 Feet	

Specifications

YB 3000 Proximitor/ Transducer

Scale Factor	200 mV/mil (7.87 V/mm)
Target Material	4140 steel (standard)
Frequency Response	0-10 KHz (0-600.000 cpm) ±1%
Power Requirements	-18 Vdc at 8.0 mA nominal
Operating Temperature	-20 to +151 °F (-29 to +66 °C)

YB 7000 Proximitor/ Transducer

Scale Factor	100 mV/mil (3.94 V/mm)
Target Material	4140 steel (standard)
Frequency Response	0-10 KHz (0-600.000 cpm) ±1%
Power Requirements	-18 to -24 Vdc at 5.0 mA nominal
Operating Temperature	-60 to +212 °F (-51 to +100 °C)

YB 3000 & 7000 Prob & Extension Cable

Operating Temperature	-69 to +350 °F (-56 to +177 °C)
Probe Tip Material	Polyether ether ketone (PEEK)

Figures

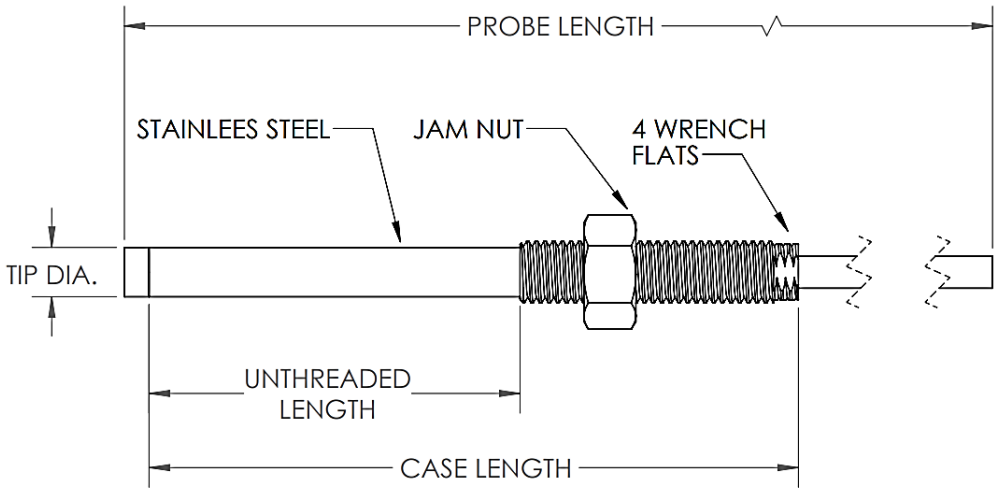


Figure 1. 3000 & 7000 Standard Prob

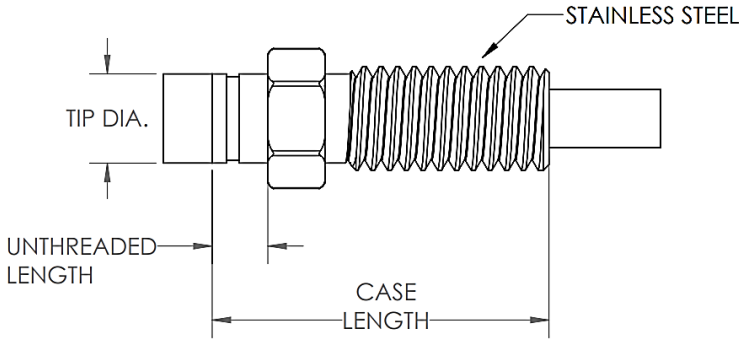


Figure 2. 3000 & 7000 Reverse Mount Prob

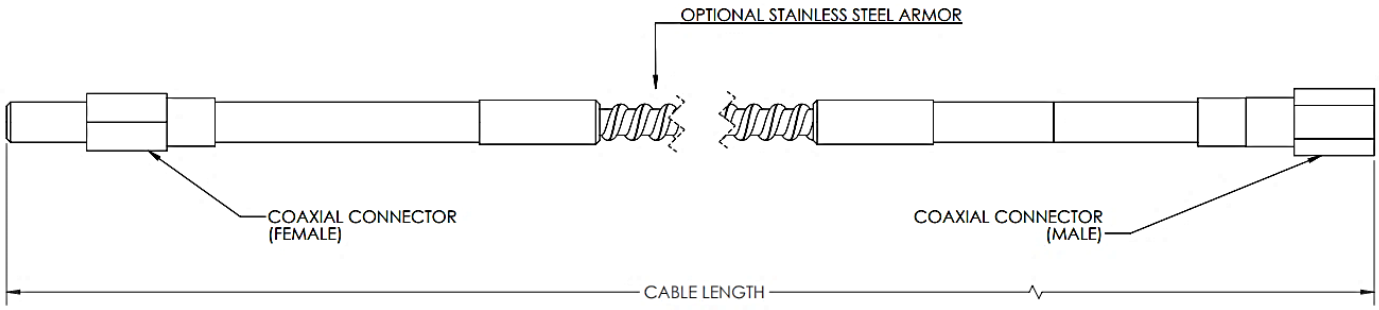


Figure 3. 3000 & 7000 Extension Cable

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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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