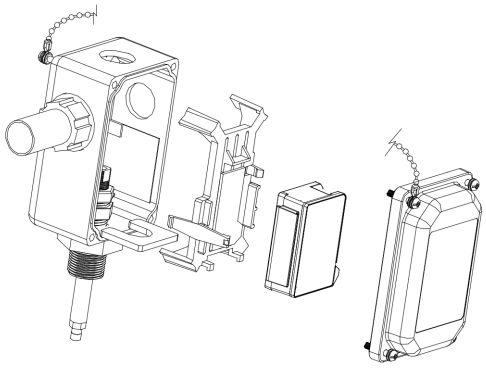
PROXPAC XL Proximity Transducer Assembly

Datasheet

Bently Nevada Machinery Condition Monitoring

178554 Rev. D



Description

The design of the PROXPAC XL Proximity Transducer Assembly is similar to our 31000/32000 Proximity Probe Housing Assemblies. The assembly offers the same advantages and features as the 31000 and 32000 housings for accessing and externally adjusting proximity probes. However, the housing cover of the PROXPAC XL Assembly also contains its own 3300 XL Proximitor sensor. This design makes the PROXPAC XL Assembly a completely self-contained proximity probe system, and eliminates the need for an extension cable between the probe and its associated Proximitor sensor. It also eliminates the need for a separate Proximitor housing, as the field wiring connects directly between the monitors and PROXPAC XL Assemblies.

The PROXPAC XL housing is made of Polyphenylene Sulfide (PPS), which is an advanced, molded thermoplastic. This material replaces the steel and aluminum in previous housings offered in the Bently Nevada product line. It also incorporates glass and conductive fibers in the PPS to strengthen the housing and more effectively dissipate electrostatic charges. The PROXPAC XL housing is rated for Type 4X and for IP66 environments and provides extra protection in severe environments.

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PROXPAC XL Proximity Transducer, Metric

330881-AA-BB-CCC-DD-EE

A: Probe and Approvals Option	
0 0	No probe; Proximitor sensor without approvals
0 1	No probe; Proximitor sensor with Multiple Approvals
1 6	3300 XL 8 mm probe without approvals
2 8	3300 XL 8 mm probe with Multiple Approvals
B: Standoff Adapter Option (B Dimension)	
	Order in increments of 10 mm. Minimum length: 40 mm Maximum length: 200 mm
Examples	
0 0	No standoff adapter
0 4	40 mm
2 0	200 mm
C: Probe Penetration Option (C Dimension)	
	For penetration lengths between 25 and 50 mm, counter bore may be required in machine case to reduce probe side view and/or rear view effects. Order in increments of 1 mm. Minimum length: 25 mm Maximum length: 760 mm
Examples	
0 0 0	No probe sleeve
0 5 0	50 mm
7 6 0	760 mm
D: Fittings Option (supplied as a kit)	
0 0	No fittings; two plugs and two washers
0 1	One M25 fitting, two plugs
0 2	Two M25 fittings, one plug
0 3	One M20 fitting, two plugs
0 5	One PG21 to PG11 reducer, two plugs
0 6	One 3/4-14 NPT fitting, one 3/4-14 NPT to 1/2-14 NPT SST reducer and two plugs
0 7	One PG21 x M20 fitting, two plugs
0 8	Two PG21 x M20 fittings, one plug Conduit fittings are necessary when hardline conduit or metal piping is brought into the housing. If using flexible conduit, you should order with integral 3/4-14 NPT fittings so that you do not require additional conduit fittings with the housing. If using flexible conduit, order the D = 0 0 option.
E: Mounting Thread Option	
0 0	No outer sleeve assembly
0 1	M24 X 3
0 2	3/4-14 NPT (required if ordering Standoff Adapter Option)

Accessories

159484	Performance Specification - 3300 XL Proximity Transducer System
178761	Operation manual
178850-00	Upgrade Kit, Non-approved (Includes housing lid, 1-metre Proximitor sensor, and support table)
178850-05	Upgrade Kit, Multi-Approvals (Includes housing lid, 1-metre Proximitor sensor, and support table)
178644-01	Proximitor sensor support table
330180-12-00	Spare 3300 XL Proximitor sensor, non-approved
330180-12-05	Spare 3300 XL Proximitor sensor, Multiple Approvals
330105-02-12-10-02-00	Spare 3300 XL 8 mm probe, English, non-approved
330105-02-12-10-02-05	Spare 3300 XL 8 mm probe, English, approved
330106-05-30-10-02-00	Spare 3300 XL 8 mm probe, metric, non-approved
330106-05-30-10-02-05	Spare 3300 XL 8 mm probe, metric, approved
02120015	Bulk Field Wire 1.0 mm² (18 AWG), 3-conductor, twisted shielded cable with drain wire. Specify length in feet.
37948-01	Probe Support / Oil Sleeve Provides seal along probe sleeve. May be used as a probe sleeve support in certain installations.

English Probe Sleeve (Spare)

108883 –AAA

This is the measured probe sleeve length. Order in increments of 0.1 in (3 mm). Note that the individual probe sleeve length **does not** include the distance from the end of the sleeve to the probe tip or the gap from the probe tip to the target material. If only the part number of the original housing is known and the sleeve cannot be measured, use the following formula to determine the sleeve length:

A: **Standoff Adapter Option** from original housing (**330800** option B) + Probe penetration option from original housing (330800 option C) + 025.

Example: Original part number is 330800-16-15-035-03-02. A option for replacement sleeve is (015 + 035 + 025) = 0 7 5**.**

Minimum Probe Sleeve Length:
3.5 in (89 mm)= 0 3 5
Maximum Probe Sleeve Length:
32.5 in (826 mm) = 3 2 5

Metric Probe Sleeve (Spare)

108882 –AAA

This is the measured probe sleeve length. Order in increments of 1 mm. Note that the individual probe sleeve length **does not** include the distance from the end of the sleeve to the probe tip or the gap from the probe tip to the target material. If only the part number of the original housing is known and the sleeve cannot be measured, use the following formula to determine the sleeve length:

A**Standoff Adapter Option** from original housing (**330801** option B) * 10 + Probe penetration option from original housing (330801 option C) + 063.

Example: Original part number is 330801-16-08-205-03-02. A option for replacement sleeve is (080 + 205 + 063) = 3 4 8.

Minimum Probe Sleeve Length:
88 mm (3.5 in) = 0 8 8
Maximum Probe Sleeve Length:
823 mm (32.4 in) = 8 2 3

English Standoff Adapter (Spare)

Hex = 1-3/8 in; threads = 3/4-14 NPT

109319 –AAA

Order in increments of 0.5 in (13 mm).

Minimum length: 1.5 in (38 mm)

Maximum length: 7.5 in (191mm)

Example: **0 2 0** = 2 in (51 mm)

Metric Standoff Adapter (Spare)

Wrench flats = 35 mm; threads = 3/4-14 NPT.

109318 –AAA

Order in increments of 10 mm.

Minimum length: 40 mm

Maximum length: 200 mm

Example: 0 5 = 50 mm

104968-01	English sleeve plug threaded, 303 stainless steel.
104968-02	Metric Sleeve Plug Threaded, 303 stainless steel. Plugs fill opening when sleeve is removed from machine case.
104288-01	English Blanking Plug
104288-02	Metric Blanking Plug. Blanking plugs are included with the Fittings Option "D". Spare plugs fill conduit holes in plastic housing where needed.

Heavy Duty Cable Fittings

03813103	Chrome-plated zinc conduit fitting, 3/4-14 NPT
03818100	AISI 316 stainless steel conduit fitting, 3/4-14 NPT
03818101	AISI 316 stainless steel conduit fitting, PG21 x M25
03818102	AISI 316 stainless steel conduit fitting, PG21 x M20
03818111	Nickel-plated brass conduit fitting, PG21 x M20
26650-01	AISI 303 stainless steel reducer 3/4-14 NPT to 1/2-14 NPT

Sealtite Flexible Conduit

14847-AAA	1/2-14 NPT assembly
14848-AAA	3/4-14 NPT assembly

A: **Length Option**

Order in increments of 1 ft (0.3 m).

Minimum length: 1 ft (0.3 m).

Maximum length: 99 ft (30.2 m)

Example: **0 5** = 5 ft (1.5 m)

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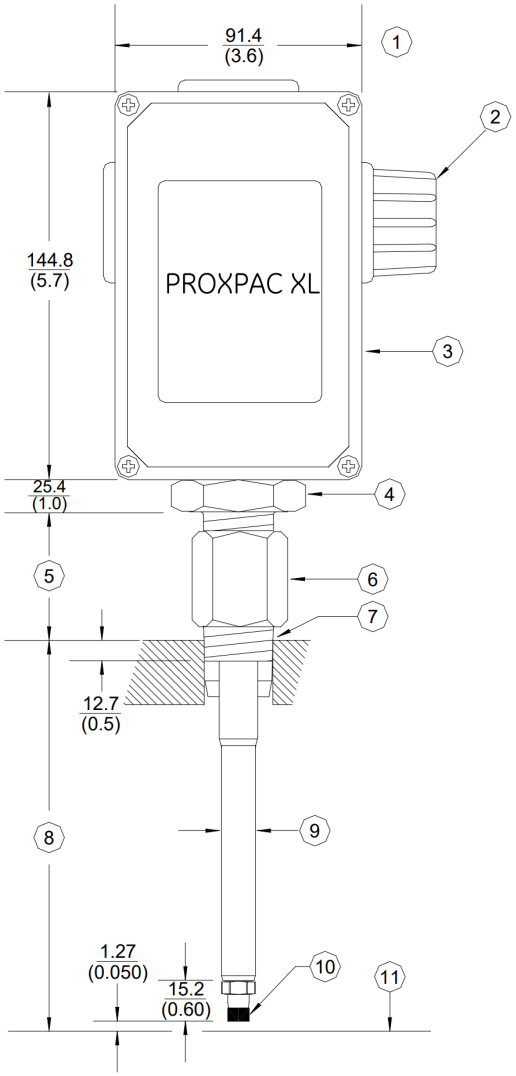


Figure 2: Dimensions for PROXPAC XL Proximity Transducer Assembly

1. Depth = 92.7 (3.65)
2. Fitting “D”
3. PROXPAC XL Housing
4. 42 (1.75) hexagonal
5. Dimension “B”
6. Standoff adaptor (optional)
7. 3/4-14 NPT
8. Dimension “C”
9. 12.7 (0.5) diameter stainless steel sleeve
10. Probe
11. Target surface

Figure information

- "B" plus "C" dimensions greater than 305 mm (12.0 in) require additional sleeve support near the probe to stiffen the assembly and avoid the influence of resonance.
- For desired probe penetration lengths of less than 51 mm (2.0 in), order a separate Individual Standoff Adapter. The effective probe penetration length will then be reduced by the length of the Individual Standoff Adapter, plus an additional 13 mm (0.5 in) due to the NPT thread engagement.
    - **Example:**The customer desires a probe penetration length of 25 mm (1.0 in). To do this, they order a 330800 housing with CXXX (probe penetration) option of 0 3 0 [76 mm (3 in)] and a separate individual standoff adapter that is 38 mm (1.5 in) in length (part number 109319-015). The standoff adapter would cover 38 mm (1.5 in) of the probe sleeve, plus an additional 13 mm (0.5 in). Therefore, the effective probe penetration length would drop to 25 mm (1.0 in).
- "B" plus "C" dimension represents mid-setting distance between mounting surface and target surface. Threaded sleeve allows ±12.7 mm (0.5 in) adjustment from this point. "B" plus "C" dimension is 760 mm (30 in) maximum.

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