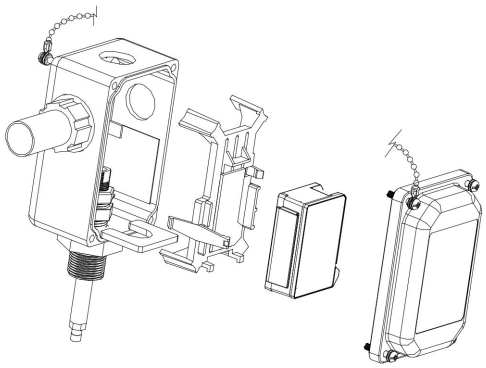
PROXPAC XL Proximity Transducer Assembly

Datasheet

Cordant™

178554 Rev. E



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.

Baker Hughes

Recommended Torque	
Retaining Nut	29.5 N·m (260 in·lb)
Probe Sleeve Locknut	39.3 N·m (350 in·lb)
Housing Strength Typical	Outer sleeve was mounted on a test stand with its axis parallel to horizontal and the housing mounted on the outer sleeve through an end hole. The housing supported 912 N (205 lbf) placed approximately 38 mm (1.5 in) from the unsupported end with the cover fastened in place and grounding liner installed.
Housing Impact Strength	Certified by BASEEFA to withstand two separate 4 Joule (5.4 ft·lb) impacts at -39°C (-38°F) and at 115°C (239°F). CSA verified that samples of the housing and cover could withstand a 7 Joule (9.5 ft·lb) impact at ambient room temperature.
Total System Weight	1.44 kg (3.2 lbm) typical with 0.3 metre (12 in) sleeve length.

Environmental Limits

Probe Temperature Range	
Operating Temperature	-52°C to +177°C (-62°F to +351°F) Exposing the probe to temperatures below –34°C (-29°F) may cause premature failure of the pressure seal.

Probe Housing and Proximitor Sensor	
Operating Temperature	-52°C to +100°C (-62°F to +212°F)
Proxpac Storage Temperature	-52°C to +105°C (-62°F to +221°F)
Relative Humidity (PROXPAC XL Sensor and probe)	100% condensing, non-submersible when connectors are protected. When properly sealed, moisture should not enter the housing. Users should take precautions to prevent moisture from traveling through the conduit into the housing.
Hot Water and Steam Exposure Effects	(Specification not guaranteed) Brief periods (up to one week) of contact with hot water 95 °C (203 °F) and/or condensing steam should not significantly affect the strength of the plastic housing. Longer contact with hot water or steam may weaken the plastic housing during the first 6 to 8 weeks of exposure and ultimately reduce the housing strength to approximately half of the initial value. Tests of actual housing performance after contact with hot water and condensing steam have not been conducted.

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)

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)