Confirm the supplied configuration

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Bently Nevada

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Bently Nevada 330880-01-20-058-03-02 is a PROXPAC XL housing assembly with an integrated Proximitor sensor, a 2.0 in standoff and a 5.8 in sleeve. The probe is supplied separately.

Apter Power installation planning guide. Verify the actual equipment and approved site procedure before work.

Scope

Identify the 01 sensor option and retain a separate probe line in the installation plan.

Mounting plan

Review the machine drawing for the 2.0 inch standoff, 5.8 inch penetration and NPT connection.

Circuit boundary

Record the sensor marking, selected probe and monitoring input before choosing power or barriers.

Configuration checkpoint	Selected item
Assembly family	PROXPAC XL; English ordering
Probe supply option	No probe supplied (01)
Sensor approval option	Proximitor sensor with Multiple Approvals (01)
Standoff adapter	2.0 in (20)
Probe penetration selection	5.8 in (058)
Fittings kit	One 3/4-14 NPT fitting; one 3/4-14 NPT to 1/2-14 NPT stainless-steel reducer; two plugs (03)

Additional engineering checks

Review item	Technical basis
Sensing hardware	The integrated sensor input is a 3300 XL 8 mm probe with 1 m cable; the ordered 01 item leaves this component to be selected separately.
Approval circuit	Multiple Approvals is a sensor option. Match actual sensor/probe markings and the applicable barrier or non-incendive circuit before installation.
Field boundary	The monitor cable carries conditioned output and sensor power; it is not an extension inserted between probe and sensor.

Apter Power technical support

sales13@apterpower.com | +86 18030235313

Prepare hardware and sensing input

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Separate 1 m probe — Integrated Proximitor — Machinery monitor

Sensor input

Select the 1 m 3300 XL 8 mm probe compatible with the integrated conditioner; no extension cable is inserted between this probe and the cover sensor.

Entry hardware

Use the supplied fitting and reducer for the intended conduit size. Close the unused entries with the kit plugs.

Enclosure

Keep mating surfaces, connector protection and seals clean. Prevent moisture from travelling through the conduit.

Readiness check	Practical criterion
Complete the sensing chain	Fit the correct 1 m 3300 XL 8 mm probe before functional testing; the ordered 01 configuration does not include it.
Preserve the mounting interface	Use the required 3/4-14 NPT mounting arrangement with the selected standoff. Keep conduit reducers in their intended entry.
Control process leakage	Do not pressurize the plastic enclosure. Apply the machine containment and isolation procedure before opening the assembly.

Additional engineering checks

Review item	Technical basis
Housing service	Keep the housing and Proximitor between -52 and +100 deg C during operation.
Storage boundary	The housing storage range is -52 to +105 deg C.
Humidity and sealing	100% condensing is specified for protected connectors and correct sealing; the assembly is non-submersible.
Material handling	Conductive fibres help dissipate charge, while glass reinforcement strengthens the UV-resistant PPS enclosure.

Install and secure the assembly

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Set the position

Use the B plus C mid-setting location as the starting geometry, then establish the actual gap with the selected probe and machine drawing.

Secure the sleeve

Keep the sensing position stable while tightening the retaining nut to 29.5 N.m and sleeve locknut to 39.3 N.m.

Support check

For combinations above 12.0 inches B plus C, support the sleeve near the probe to avoid resonance. The selected 7.8 inch reach is below this threshold.

Installation hold point	Required review
Protect the field wiring	Use the specified conductor range and shielded wiring. Prevent conduit-borne moisture from entering the housing.
Check mechanical security	Apply the 29.5 N.m retaining-nut and 39.3 N.m sleeve-locknut torques without disturbing the final probe position.
Verify the installed circuit	Review sensor and probe approval markings, barrier requirements and the applicable drawing before applying negative DC power.

Keep the installed configuration and controlled observations with the machine channel record. Do not release a channel solely because the mechanical item fits.

Additional engineering checks

Review item	Technical basis
Selected mid-setting	B plus C is 7.8 inches for the 2.0 inch standoff and 5.8 inch penetration.
Available adjustment	The threaded sleeve allows +/-0.5 inch around the mid-setting distance.
Long combination	Above 12.0 inches B plus C, provide additional sleeve support near the probe.
Overall geometry limit	The B plus C mid-setting distance is limited to 30 inches; do not extend this selection by improvised mounting changes.

Connect and verify the circuit

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Separate 1 m probe — Integrated Proximitor — Machinery monitor

Field route

Use three-conductor shielded wiring, 0.2-1.5 mm2, from sensor to monitor. Confirm supply, common and output identification before termination.

Supply selection

Use -17.5 to -26 V DC without barriers or -23 to -26 V DC with barriers, at a maximum sensor consumption of 12 mA.

Functional release

Apply the selected probe calibration procedure and verify monitor response to a controlled gap change before returning the channel to service.

Acceptance boundary	Verification focus
Enclosure rating	Type 4X / IP66
Housing and sensor operating range	-52 to +100 deg C
Storage temperature	-52 to +105 deg C
Retaining nut torque	29.5 N.m
Sleeve locknut torque	39.3 N.m

Additional engineering checks

Review item	Technical basis
Supply variation	A supply more positive than -23.5 V DC can reduce the available linear measuring range.
Sensitivity to supply	The output change is less than 2 mV per volt of input-supply change under the stated sensor specification.
Output interface	The sensor output resistance is 50 ohms; keep output/common identification consistent with the monitor circuit.
Maximum run	The field-wiring limit is 305 m; long runs affect high-frequency response and require the complete channel to be assessed.

Maintain the enclosure boundary

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Pressure control

The housing rating is for environmental protection, not process pressure containment. Isolate and control any fluid or gas boundary before service.

After disturbance

Re-establish gap, mechanical security and electrical continuity after moving the sleeve or replacing sensing components.

Handover record

Keep the complete assembly reference, separately selected probe, circuit drawing and final operating observations together.

Related Bently Nevada products

Separate catalogue references for independent selection. These links do not establish compatibility or substitution.

Product reference	Explore
Bently Nevada 330880-00-00-000-03-02	View Bently Nevada 330880-00-00-000-03-02
Bently Nevada 330880-16-00-021-03-02	View Bently Nevada 330880-16-00-021-03-02
Bently Nevada 330880-28-15-106-00-02	View Bently Nevada 330880-28-15-106-00-02

Technical reference: Bently Nevada PROXPAC XL Proximity Transducer Assembly, 178554 E.

Additional engineering checks

Review item	Technical basis
Cover and entries	Inspect the sealing path and protect the conduit route; Type 4X/IP66 does not remove the need to prevent moisture ingress.
Chemical boundary	High- or low-pH media can erode the probe-tip assembly. Assess the actual process-fluid boundary before selecting the separate probe.
Leakage responsibility	Provide containment and safe control of liquids/gases if transducer seals leak; the housing does not withstand process pressure.
Mechanical release	Record final gap and confirm both sleeve-security torque points after any mechanical disturbance.