Product and supply scope

Bently Nevada / 330880-01-20-058-03-02

Bently Nevada

330880-01-20-058-03-02

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.

Separate 1 m probe — Integrated Proximitor — Machinery monitor

Configuration	Selected construction
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)
Mounting thread	3/4-14 NPT (02)

Integration boundary

Confirm the housing-cover sensor, standoff, sleeve, NPT fitting, reducer and plugs. The probe is not included in the 01 option.

Selection review	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.

Technical specifications

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Electrical values apply to the integrated sensor. A matched probe is required to complete the measurement channel.

Parameter	Value
Manufacturer	Bently Nevada
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)
Mounting thread	3/4-14 NPT (02)
Required sensing input	Separately selected 3300 XL 8 mm probe with 1 m cable
Sensor supply without barriers	-17.5 to -26 V DC
Sensor supply with barriers	-23 to -26 V DC
Maximum sensor consumption	12 mA
Sensor output resistance	50 ohms
Field conductor size	0.2-1.5 mm2 (16-24 AWG)
Maximum field wiring	305 m between sensor and monitor
Housing material	UV-resistant, glass-reinforced conductive PPS
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

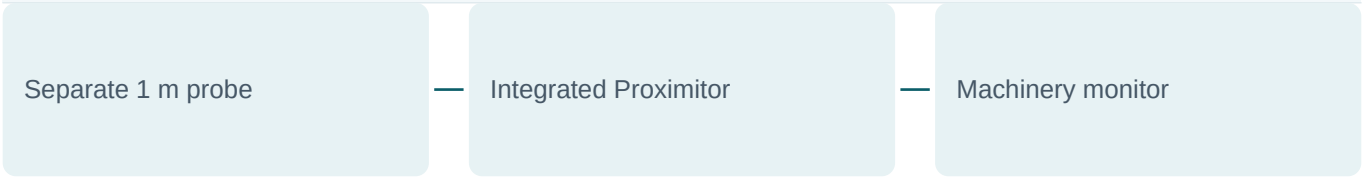
System use and integration

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Operating context

At an external machine mounting point, Bently Nevada 330880-01-20-058-03-02 keeps the signal conditioner in the housing cover while the selected sleeve provides access for gap adjustment.

Application	Engineering context
External sensor mounting	Place the integrated conditioner at the machine mounting point when a compatible proximity channel is assembled.
Conduit adaptation	Use the supplied reducer where a 1/2-14 NPT conduit connection is required, while retaining the 3/4-14 NPT mounting arrangement.
Accessible probe adjustment	Position the sleeve so a separately selected probe can be adjusted and serviced from outside the machine.
Environmental protection	Use the sealed PPS enclosure in Type 4X or IP66 installations with protected connectors and properly closed entries.



Channel planning

Retain the ordered housing, sensor and mechanical option sequence in the machine spare-parts record.

Maintenance boundary

A future probe or hardware change requires a fresh channel, mounting and approval check.

Interface review	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.

Engineering precautions

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1. 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.

2. Preserve the mounting interface

Use the required 3/4-14 NPT mounting arrangement with the selected standoff. Keep conduit reducers in their intended entry.

3. Control process leakage

Do not pressurize the plastic enclosure. Apply the machine containment and isolation procedure before opening the assembly.

4. Protect the field wiring

Use the specified conductor range and shielded wiring. Prevent conduit-borne moisture from entering the housing.

5. 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.

6. Verify the installed circuit

Review sensor and probe approval markings, barrier requirements and the applicable drawing before applying negative DC power.

Engineering notes

Supply boundary: The 01 option supplies no probe. Select the compatible 1 m 3300 XL 8 mm probe and verify its sensor connection before commissioning.

Installation geometry: The 2.0 in standoff and 5.8 in penetration form a 7.8 in mid-setting reach. Use the machine drawing and the selected probe to set the final operating gap.

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

Technical questions - configuration

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What is actually supplied under the 01 option of 330880-01-20-058-03-02?

Option 01 selects a housing with a Proximitor sensor carrying the Multiple Approvals option, without a probe. A suitable 3300 XL 8 mm probe must be selected separately before the assembly can form a complete measuring channel.

How do the 20 and 058 selections position 330880-01-20-058-03-02?

The English-ordering standoff is 2.0 inches and the selected penetration is 5.8 inches. Their sum is a 7.8 inch mid-setting reach; the threaded sleeve permits adjustment around that position. Final probe gap is established at the machine.

Does 330880-01-20-058-03-02 include an adapter for a half-inch conduit connection?

The 03 fittings kit includes one 3/4-14 NPT fitting, a stainless-steel reducer from 3/4-14 NPT to 1/2-14 NPT, and two plugs. The reducer adapts the conduit entry; it does not change the assembly mounting thread.

Why is the 02 mounting option needed with the standoff on 330880-01-20-058-03-02?

The 02 mounting option provides the 3/4-14 NPT interface required when a standoff adapter is ordered. The standoff and the machine-side sleeve connection must use the specified assembly arrangement.

Channel review	Requirement
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.

Technical questions - service

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Can the enclosure rating of 330880-01-20-058-03-02 be used as a pressure-vessel rating?

Type 4X and IP66 describe enclosure protection. The plastic housing is not designed to resist internal or external pressure, so the installation must safely contain and control process fluids if the transducer seals leak.

Which wiring route connects 330880-01-20-058-03-02 to the monitoring instrument?

Three-conductor shielded field wiring carries supply, common and output between the integrated sensor and the monitor. Use conductors of 0.2 to 1.5 mm2 and keep the sensor-to-monitor run within the 305 m limit.

When does the sleeve-support rule affect an installation using 330880-01-20-058-03-02?

Additional support near the probe is required when the combined B and C dimensions exceed 12.0 inches. The selected 7.8 inch combination is below that threshold; the machine mounting and vibration environment still need to be assessed.

What must be checked before applying power to 330880-01-20-058-03-02 through barriers?

Confirm the selected probe, sensor markings and approved circuit first. The sensor requires -23 to -26 V DC when barriers are used, compared with -17.5 to -26 V DC without barriers; a more positive supply can reduce measuring range.

Related Bently Nevada products

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

Product reference	Explore
Bently Nevada 330801-28-20-050-03-02	View Bently Nevada 330801-28-20-050-03-02
Bently Nevada 31000-16-10-15-040-03-02	View Bently Nevada 31000-16-10-15-040-03-02
Bently Nevada 31000-16-05-00-033-03-02	View Bently Nevada 31000-16-05-00-033-03-02

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