

APTER POWER INSTALLATION AND APPLICATION GUIDE

330780-90-05

Field planning for 3300 XL 11 mm Proximitior Sensor

This is a 3300 XL 11 mm Proximitior Sensor configured for a 9.0 m system and panel mounting.

The sensor conditions the 11 mm proximity probe response for vibration and displacement measurement channels with extended linear measurement capability.

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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Three interface paths, one controlled configuration.

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SCAN FOR PRODUCT & QUOTE

330780-90-05

1. Signal Path and System Function

330780-90-05 is the signal-conditioning element of the proximity transducer loop. It excites the matched probe and presents the conditioned displacement signal to the machinery monitoring input.

Configured Hardware Chain

1

Matched proximity probe from the specified system family

2

Extension cable completing the configured electrical length

3

DIN or panel hardware defined by the model code

4

Monitor channel accepting the conditioned proximity signal

Signal Objective

The sensor conditions the 11 mm proximity probe response for vibration and displacement measurement channels with extended linear measurement capability.

2. Mechanical and Electrical Planning

Model-Specific Planning Data

Planning item	Configured value
System length	9.0 m
Mounting	Panel
Linear range	4.0 mm
Scale factor	3.94 V/mm
Agency approvals	CSA; ATEX; IECEx

Fit and Route Review

- Plan panel location and extension-cable routing so the complete 11 mm system length remains 9.0 m.
- Keep the complete 330780-90-05 identifier with the installation record.
- Confirm the selected companion components before field assembly.
- Reserve access for connector inspection and baseline measurements.

3. Installation and Commissioning Sequence

- 1 Mount 330780-90-05 in the arrangement identified by its configuration.
- 2 Confirm probe and extension cable belong to the correct sensor family.
- 3 Verify total electrical length before applying power.
- 4 Terminate power, common and output conductors at the monitoring panel.
- 5 Record gap voltage and channel response during commissioning.

Commissioning Record

Record field	Entry
Model	330780-90-05
Measurement point	Machine tag and physical location
Baseline	Gap, acceleration or continuity value as applicable
Release check	Stable signal and secure mechanical installation

4. Diagnostic Checks and Engineer Questions

Diagnostic Checks

- No output: verify negative supply and common continuity.
- Offset outside the expected gap region: inspect probe gap and cable match.
- Intermittent signal: check ClickLoc connectors and field terminals.
- Temperature drift concern: confirm sensor location is within its rated range.

Engineering FAQ - Questions 5 to 8

Which scale factor is associated with 330780-90-05?

The technical value is 3.94 V/mm for the scale factor of this model.

What companion hardware should be confirmed for 330780-90-05?

Confirm matched proximity probe from the specified system family, extension cable completing the configured electrical length, din or panel hardware defined by the model code.

What is the first commissioning check for 330780-90-05?

Plan panel location and extension-cable routing so the complete 11 mm system length remains 9.0 m.

Where is 330780-90-05 applied and what signal behavior should the engineer verify?

The 11 mm system is selected where a longer linear range than a standard 8 mm system is needed on rotating machinery measurement points. Verify a stable response at the configured monitoring input before releasing the channel.

Technical Source

3300 XL 11 mm Proximity Transducer System Datasheet 146256