Bently Nevada 900800XL-090-03-01

Installation & Commissioning Guide

Bently Nevada 900800XL-090-03-01 is a 9000XL Proximitor sensor calibrated for a 9.0 m 5/8 mm proximity-transducer system and DIN-rail mounting.

PRODUCT ROLE AND TECHNICAL FEATURES

Feature 1

Conditions the matched 9000XL probe and cable signal.

Feature 2

Provides a 200 mV/mil proportional output.

Feature 3

Supports an 80 mil linear measurement range.

Feature 4

Mounts on standard 35 mm DIN rail for panel integration.

TECHNICAL DATA SNAPSHOT

Transducer family	9000XL 5/8 mm
System length	9.0 m
Mounting option	35 mm DIN rail
Scale factor	7.87 V/mm (200 mV/mil)

SYSTEM RELATIONSHIP

Field device → **Product interface** → **System channel** → **Verified response**

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Pre-installation readiness

READINESS GATE

Identity

Compare the complete marking with the approved work order and installed record.

System match

Confirm the receiving channel, mating components and controlled configuration.

Physical condition

Inspect mounting surfaces, connectors, terminals, cable and support hardware.

Work controls

Apply authorized isolation, bypass, access and restoration procedures.

TECHNICAL PROFILE FOR THE WORK

Transducer family 9000XL 5/8 mm	**System length** 9.0 m
Mounting option 35 mm DIN rail	**Scale factor** 7.87 V/mm (200 mV/mil)
Linear range 2.0 mm (80 mil)	**Power requirement** -17.5 to -26 VDC
Signal type Proportional displacement voltage	**System rule** Probe plus extension cable must equal 9.0 m

IMPORTANT NOTICE Resolve every unmatched interface, configuration or receiving-system condition before removal or installation.

DOCUMENT AND WORK CONTROLS

Manufacturer document	ApterPower product-specific technical reference
Application scope	The values below apply to the identified product and its documented system relationship.
Selection rule	Use the complete ordering string and confirm the installed interfaces before selection.

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Installation sequence

CONTROLLED WORK STEPS

01	Confirm the complete 900800XL-090-03-01 marking and the documented 9000xl 5/8 mm proximitor sensor position.
02	Place the affected machine protection channel in the approved maintenance state.
03	Record the installed transducer family, system length and mounting option before removal.
04	De-energize the associated monitor, sensor supply or field circuit as the procedure requires.
05	Label every connector, conductor and shield before separation.
06	Inspect mating contacts, mounting hardware and cable condition before installation.
07	Restore the retained configuration and verify signal polarity and proportional response.
08	Function-test the complete alarm, indication and shutdown path before returning the machine to service.

CONNECTION RECORD

As found	Photograph and label every connection and installed orientation before removal.
Mechanical	Record mounting position, support, clearance and connector engagement.
Electrical	Record polarity, common, shield, channel assignment and cable route.
Configuration	Preserve approved settings, scaling, alarm logic and acceptance limits.
As left	Record the final physical condition and any controlled deviation.



WORK HOLD POINTS

Before removal	Identity, position, wiring, orientation and controlled settings recorded.
Before connection	Mating interfaces, condition and routing reviewed.
Before power-up	Mechanical work, wiring, shielding and configuration independently checked.
Before release	Static value, dynamic response and protection behavior accepted.

Commissioning and functional proof

COMMISSIONING SEQUENCE

Initial state

Observe status at power-up and check for unexpected fault or alarm indication.

Static value

Verify the expected bias, gap, loop, contact or channel value for the application.

Dynamic response

Apply the approved machine or test stimulus and confirm response and scaling.

Protection path

Verify the configured alarm, relay, data or receiving-system behavior.

APPLICATION-SPECIFIC CHECKS

Radial vibration

Measures shaft motion relative to the bearing.

Axial position

Tracks thrust or shaft-position changes.

Keyphasor service

Provides a once-per-turn reference when configured.

Legacy panel replacement

Restores the documented 9.0 m transducer channel.

ACCEPTANCE RECORD

Identity	Complete marking and final installed position recorded.
Physical inspection	Mounting, connectors, terminals and routing checked.
Channel status	Expected status and configured measurement confirmed.
Functional test	Required output or protection response demonstrated.
Restoration	Bypasses removed and operating state approved.

COMMISSIONING QUESTIONS

What transducer family belongs to Bently Nevada 900800XL-090-03-01?	The documented transducer family is 9000XL 5/8 mm; confirm it against the installed record.
Why verify system length for Bently Nevada 900800XL-090-03-01?	The documented system length is 9.0 m; confirm it against the installed record.

Release record and technical references

CLOSEOUT QUESTIONS

Where is mounting option used by Bently Nevada 900800XL-090-03-01?	The documented mounting option is 35 mm DIN rail; confirm it against the installed record.
What controls scale factor on Bently Nevada 900800XL-090-03-01?	The documented scale factor is 7.87 V/mm (200 mV/mil); confirm it against the installed record.
How is linear range tested on Bently Nevada 900800XL-090-03-01?	The documented linear range is 2.0 mm (80 mil); confirm it against the installed record.
Which record preserves power requirement for Bently Nevada 900800XL-090-03-01?	The documented power requirement is -17.5 to -26 VDC; confirm it against the installed record.
Which signal type applies to Bently Nevada 900800XL-090-03-01?	The documented signal type is Proportional displacement voltage; confirm it against the installed record.
How is system rule set on Bently Nevada 900800XL-090-03-01?	The documented system rule is Probe plus extension cable must equal 9.0 m; confirm it against the installed record.

RELATED MODELS FOR INSTALLATION PLANNING

Bently Nevada 125720-02	Installation-planning reference. Review the complete ordering string before selection.
Bently Nevada 3500/61 136711-02	Installation-planning reference. Compare the required interface and system position.
Bently Nevada 170180-01-00	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER DOCUMENT AND FINAL CONTROL

Manufacturer document	ApterPower product-specific technical reference
Application scope	The values below apply to the identified product and its documented system relationship.
Selection rule	Use the complete ordering string and confirm the installed interfaces before selection.

IMPORTANT NOTICE	Release the equipment only after the responsible site authority accepts the recorded result.

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