

125680-01

Proximito I/O Module with Internal Terminations

Bently Nevada 125680-01 is the internal-termination Proximito I/O module for a 3500/40M monitor. It connects up to four proximity-transducer circuits to the rear of the machinery-protection rack.

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

3500/40M Proximito Monitor

PART

125680-01

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PRODUCT OVERVIEW

Bently Nevada 125680-01 is the internal-termination Proximitor I/O module for a 3500/40M monitor. It connects up to four proximity-transducer circuits to the rear of the machinery-protection rack.

- 1

Terminates up to four proximity-transducer circuits inside the 3500 rack
- 2

Routes conditioned probe inputs to the paired 3500/40M front monitor
- 3

Supplies the documented negative transducer excitation through the I/O assembly
- 4

Supports the monitor's vibration, position, eccentricity, expansion and REBAM channel types

SYSTEM COMPONENTS

- 3500 rack rear slot
- 3500/40M 176449-01 monitor
- Proximity probes and extension cables
- Internal field-wiring connectors

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
3500/40M 176449-01	Four-channel Proximitor monitor	Open product page
125720-01	Four-channel relay output module	Open product page
125760-01	3500 Data Manager I/O module	Open product page
125768-01	3500 RIM RS232/RS422 I/O module	Open product page
128240-01	External-termination Prox/Seismic I/O	Open product page

TECHNICAL DATA

PARAMETER	VALUE
I/O module type	Proximator
Termination arrangement	Internal
Matched monitor	3500/40M
Signal inputs	1 to 4 proximity transducers
Input impedance	10 kOhm
Transducer power supply	-24 Vdc
Buffered output impedance	550 Ohm
Radial direct filter	4-4000 Hz or 1-600 Hz

PARAMETER	VALUE
Radial gap filter	-3 dB at 0.09 Hz
Direct and gap accuracy	+/-0.33% FS typical; +/-1% maximum
Alarm setpoint range	0-100% of full scale
Operating temperature	-30 to +65 degC
Storage temperature	-40 to +85 degC
Humidity	95% non-condensing
Rear rack space	1 full-height slot
External termination blocks	Not applicable

TECHNICAL NOTE

Keep each probe, extension cable and Proximator circuit assigned to its original channel, verify internal connector seating and measure stable gap voltage before enabling monitor alarms.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Internal probe-circuit termination

Terminates up to four proximity-transducer circuits inside the 3500 rack

Four-channel vibration rack assembly

Routes conditioned probe inputs to the paired 3500/40M front monitor

Thrust-position transducer connection

Supplies the documented negative transducer excitation through the I/O assembly

REBAM proximity-signal marshalling

Supports the monitor's vibration, position, eccentricity, expansion and REBAM channel types

PRODUCT PRECAUTIONS

- 1 Confirm 125680-01 and its assigned 3500/40M rear-slot position before disconnection.
- 2 De-energize the rack and isolate transducer wiring before removing internal connectors.
- 3 Label all four channel connectors so probe assignments cannot be interchanged.
- 4 Use ESD controls and inspect the internal-termination headers for bent or recessed contacts.
- 5 Do not connect an external termination block to the 125680-01 internal-termination execution.
- 6 Seat the rear I/O module and front monitor as the documented matched assembly.
- 7 Confirm negative transducer power and stable gap voltage before restoring channel alarms.
- 8 Prove each measurement path using the configured radial, thrust, expansion or REBAM duty.

ENGINEER FAQ

Q1 What as-found information should an engineer record before removing 125680-01?

Record every channel or port assignment, connector identity, configured function, cable tag and diagnostic state associated with 125680-01.

Q3 Which configuration should be restored after replacing 125680-01?

Restore the approved 3500/40M Proximitor Monitor slot, channel or interface configuration and verify that every connected circuit retains its original assignment.

Q5 What technical value deserves special attention when checking 125680-01?

Verify the published termination arrangement value of Internal against the installed configuration and test record.

Q7 What evidence should be retained after 125680-01 returns to service?

Retain the full 125680-01 identity, as-left connections, restored configuration, final diagnostics and the controlled functional-test result for four-channel vibration rack assembly.

Q2 How should 125680-01 be isolated before field wiring is disturbed?

Place the protected machine in its approved maintenance state, isolate rack and field energy applicable to Proximity probes and extension cables, and prove the terminals safe before disconnection.

Q4 How can 125680-01 be commissioned for internal probe-circuit termination?

Apply a controlled input or command, review the model-specific diagnostics and prove the expected measurement, indication and protection response before releasing the channel.

Q6 Can 125680-01 be exchanged with another 3500 I/O or monitor execution?

Only when the complete part number, termination style, transducer or interface type and approved rack configuration match the installed duty; do not transfer settings from an adjacent model.

Q8 Which rack hardware must be matched before installing 125680-01?

Match 125680-01 to the documented 3500 rack rear slot and 3500/40M 176449-01 monitor; confirm the front/rear slot pairing and the complete physical marking before connection.