

INDUSTRIAL AUTOMATION PRODUCT

125680-01

Proximitoꖡ I/O Module with Internal Terminations

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

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	3500/40M Proximitoꖡ Monitor
Part number	125680-01
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

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125680-01

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Technical Specifications

Technical values below are limited to the named Bently Nevada product record.

PARAMETER	TECHNICAL VALUE
I/O module type	Proximitior
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
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

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System Role and Architecture

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.

FUNCTION 1

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

FUNCTION 2

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

FUNCTION 3

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

FUNCTION 4

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

Matched system components

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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	3500 rack rear slot
Companion hardware	3500/40M 176449-01 monitor
Field connection	Proximity probes and extension cables
Primary system function	Terminates up to four proximity-transducer circuits inside the 3500 rack
Controlled acceptance duty	Internal probe-circuit termination

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Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	125680-01 / 125680-01 recorded
Physical interface	3500 rack rear slot
Companion check	3500/40M 176449-01 monitor
Functional proof	Terminates up to four proximity-transducer circuits inside the 3500 rack
Application test	Internal probe-circuit termination

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Engineering 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.

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

MANUFACTURER SOURCE RECORD

3500/40M Proximitor Monitor Datasheet

141535 Rev. R

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