

INDUSTRIAL AUTOMATION PRODUCT

128240-01

ProximitoꖑSeismic I/O Module with External Terminations

Bently Nevada 128240-01 is an external-termination ProximitoꖑSeismic I/O module for the 3500/42M monitor. It connects proximity and seismic transducers to four configurable machinery-protection channels.

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	3500/42M ProximitoꖑSeismic Monitor
Part number	128240-01
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

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128240-01

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Technical Specifications

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

PARAMETER	TECHNICAL VALUE
Termination arrangement	External
Monitor channels	1 to 4
Accepted signals	Proximity; velocity; acceleration
Recommended transducer	Seismoprobe
Supported transducers	Prox/Accel; Velomitor; Seismoprobe
Standard I/O input impedance	10 kOhm
Prox/Accel supply	23.9 V; 45.5 mA; 1.09 W
Velomitor supply	23.9 V; 45.5 mA; 1.09 W
Seismoprobe supply	6.82 V; 2.75 mA; 0.02 W
Buffered output impedance	550 Ohm
Transducer power supply	-24 Vdc
Recorder output	4-20 mA
Recorder load	0-600 Ohm
Recorder update rate	100 ms or less
Recorder resolution	0.3662 uA per bit
Radial direct filter	4-4000 Hz or 1-600 Hz
Direct and gap accuracy	+/-0.33% FS typical; +/-1% maximum
Rear rack space	1 full-height slot

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System Role and Architecture

Bently Nevada 128240-01 is an external-termination Proximator/Seismic I/O module for the 3500/42M monitor. It connects proximity and seismic transducers to four configurable machinery-protection channels.

FUNCTION 1

Connects four external-termination vibration or position channels to a 3500/42M monitor

FUNCTION 2

Accepts proximity, velocity and acceleration transducer families supported by the monitor

FUNCTION 3

Routes recorder outputs and buffered transducer signals through the approved termination arrangement

FUNCTION 4

Supports radial vibration, position, acceleration, velocity and shaft-absolute measurement configurations

Matched system components

- 3500 rack rear slot
- 3500/42M 176449-02 monitor
- Approved external termination block and cable
- Proximity, velocity or acceleration transducers

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	3500 rack rear slot
Companion hardware	3500/42M 176449-02 monitor
Field connection	Approved external termination block and cable
Primary system function	Connects four external-termination vibration or position channels to a 3500/42M monitor
Controlled acceptance duty	Seismic bearing vibration input

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Applications and Engineering Context

Seismic bearing vibration input

Connects four external-termination vibration or position channels to a 3500/42M monitor

Radial vibration and shaft-position monitoring

Accepts proximity, velocity and acceleration transducer families supported by the monitor

Acceleration channel termination

Routes recorder outputs and buffered transducer signals through the approved termination arrangement

External recorder-output marshalling

Supports radial vibration, position, acceleration, velocity and shaft-absolute measurement configurations

TECHNICAL NOTE

Order and match the external termination block and cable to 128240-01, confirm the configured transducer family on each channel and prove bias, dynamic signal and recorder output before arming alarms.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	128240-01 / 128240-01 recorded
Physical interface	3500 rack rear slot
Companion check	3500/42M 176449-02 monitor
Functional proof	Connects four external-termination vibration or position channels to a 3500/42M monitor
Application test	Seismic bearing vibration input

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Engineering Precautions

1

Verify 128240-01 and its paired 3500/42M slot before disconnecting the external cable.

2

Isolate transducer power and recorder loops before disturbing the termination block.

3

Record channel-pair measurement functions and every transducer model before replacement.

4

Use only the external termination block and cable specified for this I/O execution.

5

Confirm the configured sensor type matches the published supported transducer list.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
3500/40M 176449-01	Four-channel Proximitor monitor	Open product page
125680-01	Internal-termination Proximitor I/O module	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

MANUFACTURER SOURCE RECORD

3500/42M Proximitor Seismic Monitor Datasheet

143694 Rev. AE

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