

128240-01

Proximator/Seismic I/O Module with External Terminations

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.

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

3500/42M Proximator Seismic Monitor

PART

128240-01

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PRODUCT OVERVIEW

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

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

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

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

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

SYSTEM COMPONENTS

3500 rack rear slot

3500/42M 176449-02 monitor

Approved external termination block and cable
RELATED PRODUCTS ON APTER POWER

Proximity, velocity or acceleration transducers

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

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
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

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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
- 6 Check transducer bias and buffered output before enabling alarm processing.
- 7 Validate recorder-loop scaling into the connected control or recording system.
- 8 Run controlled vibration or position checks for all enabled channel pairs.

ENGINEER FAQ

Q1 What technical value deserves special attention when checking 128240-01?

Verify the published standard i/o input impedance value of 10 kOhm against the installed configuration and test record.

Q3 What evidence should be retained after 128240-01 returns to service?

Retain the full 128240-01 identity, as-left connections, restored configuration, final diagnostics and the controlled functional-test result for radial vibration and shaft-position monitoring.

Q5 What as-found information should an engineer record before removing 128240-01?

Record every channel or port assignment, connector identity, configured function, cable tag and diagnostic state associated with 128240-01.

Q7 Which configuration should be restored after replacing 128240-01?

Restore the approved 3500/42M Proximitor Seismic Monitor slot, channel or interface configuration and verify that every connected circuit retains its original assignment.

Q2 Can 128240-01 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.

Q4 Which rack hardware must be matched before installing 128240-01?

Match 128240-01 to the documented 3500 rack rear slot and 3500/42M 176449-02 monitor; confirm the front/rear slot pairing and the complete physical marking before connection.

Q6 How should 128240-01 be isolated before field wiring is disturbed?

Place the protected machine in its approved maintenance state, isolate rack and field energy applicable to Approved external termination block and cable, and prove the terminals safe before disconnection.

Q8 How can 128240-01 be commissioned for seismic bearing vibration input?

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