

3500/42M-SIL2-09-01

3500/42M Proximitors Seismic Monitor

Bently Nevada 3500/42M-SIL2-09-01 is preserved as the complete supplied identity for a 3500/42M four-channel Proximitors Seismic Monitor arrangement. The documented 09 I/O option accepts Prox/Accel, Velomitor and HTVS inputs through internal terminations.

BRAND	Bently Nevada	FAMILY	Bently Nevada 3500 Machinery Protection System
PART	3500/42M-SIL2-09-01	SYSTEM ROLE	Monitors four configured machinery channels

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3500/42M-SIL2-09-01

MANUFACTURER SOURCE RECORD

3500/42M Proximitors Seismic Monitor Datasheet
Baker Hughes publication 143694 Rev. AE

Product Overview

SYSTEM FUNCTION

Bently Nevada 3500/42M-SIL2-09-01 is preserved as the complete supplied identity for a 3500/42M four-channel Proximitors Seismic Monitor arrangement. The documented 09 I/O option accepts Prox/Accel, Velomitor and HTVS inputs through internal terminations.

FUNCTION 1

Monitors four configured machinery channels

FUNCTION 2

Supports proximity, acceleration and velocity transducers

FUNCTION 3

Uses the documented internal-termination I/O module

FUNCTION 4

Provides alarm and protection processing in the 3500 rack

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	Bently Nevada 3500 Machinery Protection System
Primary interface	Monitors four configured machinery channels
Engineering context	3500/42M-SIL2-09-01 is installed only in the documented Bently Nevada 3500 Machinery Protection System arrangement with its matching host, terminal, cable or field interface. Commissioning preserves the as-found configuration and uses controlled identity, connection, diagnostic and functional checks.
Commissioning duty	Inject controlled signals and prove every affected alarm path before release.

TECHNICAL NOTE

Before removing 3500/42M-SIL2-09-01, record the complete marking, installed position, mating hardware, connectors, wiring and configured channel role. Restore the documented arrangement, review system diagnostics and complete a controlled functional test before release.

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Complete supplied identity	3500/42M-SIL2-09-01	Input compatibility	Prox/Accel, Velomitor and HTVS
Monitor channels	4	Termination	Internal
I/O option	09	Approval option	01 cNRTLus Class I, Division 2
I/O module	140471-01		

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
330130-080-00-00	extension cable	View 330130-080-00-00 page
330180-50-00	Proximitor Sensor	View 330180-50-00 page
3500/25	Keyphasor module	View 3500/25 page
3500/40M	Proximitor monitor	View 3500/40M page
3500/42M	monitor I/O module	View 3500/42M page
130118-0050-02	host-to-rack communication cable	View 130118-0050-02 page
3500/53	overspeed detection module	View 3500/53 page
3500/72M	reciprocating-rod monitor	View 3500/72M page

ENGINEERING BOUNDARY

Confirm 3500/42M-SIL2-09-01, 3500 rack and slot, monitor and I/O hardware revisions, option 09 internal terminals, four transducer types, wiring, grounding, rack firmware, channel configuration, setpoints and controlled alarm-test results before commissioning.

Applications and Precautions

Common Applications

Radial vibration protection

Processes configured proximity or seismic signals for rotating machinery.

Axial position supervision

Uses matched proximity inputs for thrust-position protection logic.

Casing vibration monitoring

Accepts documented Velomitor or HTVS velocity signals.

Four-channel monitor replacement

Restores the assigned 3500 rack monitor and I/O positions.

Product Precautions

- 1

Confirm the complete 3500/42M-SIL2-09-01 supplied identity and rack position.
- 2

Place every associated protection channel in the approved maintenance state.
- 3

Record all four channel types, alarm setpoints and voting or relay actions.
- 4

Isolate rack and field energy according to the approved procedure.
- 5

Confirm I/O option 09 and internal terminal assignments before removal.
- 6

Restore channel transducer types, scales, filters and alarm logic.
- 7

Review monitor, rack and communication diagnostics after startup.
- 8

Inject controlled signals and prove every affected alarm path before release.

IMPORTANT NOTICE

Confirm 3500/42M-SIL2-09-01, 3500 rack and slot, monitor and I/O hardware revisions, option 09 internal terminals, four transducer types, wiring, grounding, rack firmware, channel configuration, setpoints and controlled alarm-test results before commissioning.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	3500/42M-SIL2-09-01
Configuration	Review monitor, rack and communication diagnostics after startup.
Functional release	Inject controlled signals and prove every affected alarm path before release.

Engineer FAQ

Q1 What identity details must be checked before 3500/42M-SIL2-09-01 is removed?

Confirm 3500/42M-SIL2-09-01, 3500 rack and slot, monitor and I/O hardware revisions, option 09 internal terminals, four transducer types, wiring, grounding, rack firmware, channel configuration, setpoints and controlled alarm-test results before commissioning.

Q3 Which Bently Nevada 3500 Machinery Protection System interfaces must be recorded for 3500/42M-SIL2-09-01?

3500/42M-SIL2-09-01 is installed only in the documented Bently Nevada 3500 Machinery Protection System arrangement with its matching host, terminal, cable or field interface. Commissioning preserves the as-found configuration and uses controlled identity, connection, diagnostic and functional checks.

Q5 How should the installed configuration be restored after fitting 3500/42M-SIL2-09-01?

Restore channel transducer types, scales, filters and alarm logic.

Q7 What replacement records should be retained for 3500/42M-SIL2-09-01?

Confirm the complete 3500/42M-SIL2-09-01 supplied identity and rack position. Confirm I/O option 09 and internal terminal assignments before removal.

Q2 How does 3500/42M-SIL2-09-01 perform its documented 3500/42m proximitor seismic monitor role?

Monitors four configured machinery channels. The documented 09 I/O option accepts Prox/Accel, Velomitor and HTVS inputs through internal terminations.

Q4 What isolation and ESD controls apply while handling 3500/42M-SIL2-09-01?

Place every associated protection channel in the approved maintenance state. Record all four channel types, alarm setpoints and voting or relay actions.

Q6 Which diagnostic evidence confirms that 3500/42M-SIL2-09-01 is recognized correctly?

Review monitor, rack and communication diagnostics after startup.

Q8 What final acceptance test is required before 3500/42M-SIL2-09-01 returns to service?

Inject controlled signals and prove every affected alarm path before release.

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