INSTALLATION & COMMISSIONING

Bently Nevada 3500/25 125800-02

01 / PLAN AND IDENTIFY

Bently Nevada 3500/25 125800-02 identifies an Enhanced Keyphasor monitoring path using the 125800-02 isolated internal-termination I/O module for magnetic-pickup timing inputs. It supplies shaft-reference information used for speed, phase and vibration-vector measurements in a 3500 rack.

Identity gate

System	3500/25 Enhanced Keyphasor
Rear I/O Part	125800-02
I/O Execution	Isolated internal termination
Primary Input Application	Magnetic pickup timing signals

Work boundary

Exact item	Installed context	Acceptance
3500/25 125800-02	Mating component or rack position	Machine-specific functional check

01 Record the as-found item

Capture the complete identifier, installed point and mating components before removal. Apply the authorized isolation and protection-bypass procedure.

Related Bently Nevada models

Bently Nevada 125800-02	Related portfolio reference; verify the complete execution.
Bently Nevada 128718-01	Related portfolio reference; verify the complete execution.
Bently Nevada 3500/05-02-04-00-00-01	Related portfolio reference; verify the complete execution.

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02 / PRE-INSTALLATION

Readiness gate

Identity	Full model and nameplate recorded
Mechanical	Mounting, enclosure and routing inspected
Electrical	Power, loop or cable checks follow the applicable source
Integration	Mating components and system length confirmed

02 Inspect condition

Check the nameplate, mounting surfaces, connectors, cable or enclosure for damage and contamination. Reject an item whose exact identity or condition cannot be confirmed.

03 Review the source

141532 Rev. Y: Enhanced Keyphasor function and rack use pp. 1-2; input, output and supply data pp. 3-4; ordering and internal-termination rules pp. 7-8; front and rear arrangement p. 10.

Related Bently Nevada models

Bently Nevada 125800-02	Related portfolio reference; verify the complete execution.
Bently Nevada 128718-01	Related portfolio reference; verify the complete execution.
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03 / INSTALL AND CONNECT

04 / Installation check

Confirm both the 3500/25 system identity and the 125800-02 rear I/O marking before installation.

05 / Installation check

Use internal field terminations; do not connect an external termination block to 125800-02.

06 / Installation check

For a passive magnetic pickup, confirm that the operating speed remains above 200 rpm.

07 / Installation check

Provide an external supply when a Proximitor source is connected through this isolated I/O execution.

08 / Installation check

Record input polarity, channel assignment and conductor positions before disconnecting field wiring.

Documented data to respect

Configuration	3500/25 processing path with 125800-02 rear I/O
Rear I/O Part	125800-02
I/O Type	Isolated; internal terminations
Intended Signal Source	Magnetic pickups
Proximitor Input Use	Supported when an external power supply is provided
Input Channels	Up to two transducer signals per Keyphasor module

Related Bently Nevada models

Bently Nevada 125800-02	Related portfolio reference; verify the complete execution.
Bently Nevada 128718-01	Related portfolio reference; verify the complete execution.
Bently Nevada 3500/05-02-04-00-00-01	Related portfolio reference; verify the complete execution.

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04 / COMMISSION AND ACCEPT

09 Restore the documented assembly

Maintain the front processor, rear isolated I/O, channel configuration and field wiring as one verified timing path. Recommission every dependent speed and phase reference after any change.

10 Perform the functional check

Use the machine procedure to verify the expected static condition, signal path and operating response. A visual inspection alone is not commissioning evidence.

Acceptance record

Identity	Full model and nameplate recorded
Mechanical	Mounting, enclosure and routing inspected
Electrical	Power, loop or cable checks follow the applicable source
Integration	Mating components and system length confirmed
Acceptance	Machine-specific functional result recorded

Which input range applies to 3500/25 125800-02?

The isolated I/O input range is +5 V to -11 V.

What minimum speed applies to a passive magnetic pickup on 3500/25 125800-02?

A passive magnetic pickup requires shaft speed above 200 rpm, equivalent to 3.3 Hz.

Where are buffered outputs available on 3500/25 125800-02?

Two buffered outputs are available at the front through coaxial connectors and two at the rear through Euro-style connectors.

Related Bently Nevada models

Bently Nevada 125800-02	Related portfolio reference; verify the complete execution.
Bently Nevada 128718-01	Related portfolio reference; verify the complete execution.
Bently Nevada 3500/05-02-04-00-00-01	Related portfolio reference; verify the complete execution.

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05 / HANDOVER

How much rack space does 3500/25 125800-02 require?

The processor occupies one half-height front slot, while the I/O module occupies one full-height rear slot.

What should be verified after commissioning 3500/25 125800-02?

Confirm input polarity, trigger behavior, recovered speed and phase reference, and the buffered outputs used by dependent channels.

Handover record

Identity	Exact model and installed location
Configuration	Mating items and relevant option fields
Inspection	Mechanical, cable and connector condition
Test	Authorized functional result and date

Related-product boundary

Recommended models are portfolio references. Compare every ordering field before selection.

Related Bently Nevada models

Bently Nevada 125800-02	Related portfolio reference; verify the complete execution.
Bently Nevada 128718-01	Related portfolio reference; verify the complete execution.
Bently Nevada 3500/05-02-04-00-00-01	Related portfolio reference; verify the complete execution.
Bently Nevada 3500/32M	Related portfolio reference; verify the complete execution.

Manufacturer evidence

141532 Rev. Y: Enhanced Keyphasor function and rack use pp. 1-2; input, output and supply data pp. 3-4; ordering and internal-termination rules pp. 7-8; front and rear arrangement p. 10.

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