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.

## Exact identity

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

## Installed context

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

## Shaft-speed reference

Generate timing events for rotational-speed measurement from a suitable magnetic pickup.

## Phase-reference distribution

Provide a Keyphasor reference used by monitor channels that calculate phase and vibration vectors.

## Isolated control-system paths

Separate the magnetic-pickup input from other connected equipment through the isolated rear I/O execution.

## Paired Keyphasor service

Support primary and secondary timing routes in a qualified paired or TMR rack arrangement.

## 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. |
| **Bently Nevada 3500/64M** | Related portfolio reference; verify the complete execution. |
| **Bently Nevada 3500/60** | Related portfolio reference; verify the complete execution. |


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## Manufacturer-supported characteristics

| | |
|---|---|
| **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 |

## Additional data

| | |
|---|---|
| **Isolated Input Range** | +5 V to -11 V |
| **Input Impedance** | 21.8 kohm minimum |
| **Passive Magnetic Pickup Speed** | Greater than 200 rpm (3.3 Hz) |
| **Buffered Outputs** | Two front coaxial outputs and two rear Euro-style outputs |
| **Transducer Supply** | -24 Vdc, 40 mA maximum per channel |
| **Main Module Rack Space** | One half-height front slot |

## Interpretation boundary

Keep the complete 3500/25 125800-02 assembly identity separate from the standalone 125800-02 spare I/O module.

## Evidence discipline

Unverified weight, dimensions and suffix meanings are intentionally omitted. Confirm them only from the exact manufacturer record or nameplate.

## 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. |
| **Bently Nevada 3500/64M** | Related portfolio reference; verify the complete execution. |
| **Bently Nevada 3500/60** | Related portfolio reference; verify the complete execution. |


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## 01 / Field precaution

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

## 02 / Field precaution

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

## 03 / Field precaution

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

## 04 / Field precaution

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

## 05 / Field precaution

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

## 06 / Field precaution

Inspect the half-height front slot, full-height rear slot and mating connectors for damage or contamination.

## 07 / Field precaution

Restore trigger level, hysteresis and event-per-revolution settings for the intended shaft reference.

## 08 / Field precaution

Verify stable speed, phase and buffered-output behavior before returning dependent monitor channels to service.

## Acceptance checkpoints

| | |
|---|---|
| **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 |

## 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. |
| **Bently Nevada 3500/64M** | Related portfolio reference; verify the complete execution. |
| **Bently Nevada 3500/60** | Related portfolio reference; verify the complete execution. |

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## What does 125800-02 identify within 3500/25 125800-02?

It identifies the isolated Keyphasor I/O module with internal terminations, intended primarily for magnetic-pickup inputs.

## How many inputs can 3500/25 125800-02 process?

The associated Keyphasor module accepts up to two proximity-probe or magnetic-pickup signals.

## Can 3500/25 125800-02 accept a Proximitor signal?

Yes, the isolated I/O execution can provide isolation for a Proximitor application when an external power supply is provided.

## 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.

## 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.

## 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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## Evidence record

| | |
|---|---|
| **Manufacturer** | Bently Nevada, a Baker Hughes company |
| **Reference** | 3500/25 Enhanced Keyphasor Module Datasheet 141532 Rev. Y |
| **Exact identifier** | 3500/25 125800-02 |
| **Evidence boundary** | Only directly supported family and ordering statements are used |

## 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. |
| **Bently Nevada 3500/64M** | Related portfolio reference; verify the complete execution. |
| **Bently Nevada 3500/60** | Related portfolio reference; verify the complete execution. |

## Recommendation rule

Brand + model links identify related Bently Nevada pages. They do not claim compatibility or substitution.

## Service record

Retain exact identity, installed point, companion components, as-found condition, inspection evidence and machine-specific acceptance result.

## 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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