

125800-02

Isolated Keyphasor I/O Module with Internal Terminations

Bently Nevada 125800-02 is the isolated Keyphasor I/O module with internal terminations, designed primarily for magnetic-pickup inputs in a 3500/25 system. It can isolate parallel Keyphasor connections to multiple devices.

BRAND	Bently Nevada	ORIGIN	USA
MODEL	125800-02	FAMILY	3500/25 Enhanced Keyphasor Module
HS CODE	8537101190	SHIP FROM	Xiamen, Fujian, China
DIMENSIONS		PRODUCT	Isolated Keyphasor I/O Module with Internal Terminations

MANUFACTURER SOURCE RECORD

3500/25 Enhanced Keyphasor Module Datasheet
Baker Hughes / Bently Nevada publication 141532 Rev. Y

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125800-02

Product Overview

SYSTEM FUNCTION

Bently Nevada 125800-02 is the isolated Keyphasor I/O module with internal terminations, designed primarily for magnetic-pickup inputs in a 3500/25 system. It can isolate parallel Keyphasor connections to multiple devices.

ISOLATED INTERNAL-TERMINATION EXECUTION

Verified model-specific feature or controlled record item.

DESIGNED PRIMARILY FOR MAGNETIC PICKUPS

Verified model-specific feature or controlled record item.

PARALLEL KEYPHASOR SYSTEM ISOLATION

Verified model-specific feature or controlled record item.

SPEED-FOCUSED INPUT WITH DOCUMENTED PHASE SHIFT

Verified model-specific feature or controlled record item.

TECHNICAL NOTE

Use 125800-02 with the matched Enhanced Keyphasor main module and document every parallel destination. For a Proximitors input provide the required external supply, then verify isolation, threshold, speed indication and the additional phase shift before using phase data.

Technical Data and Acceptance

Acceptance Path

PARAMETER	VERIFIED VALUE
Country of origin	USA
HS code	8537101190
Ship from	Xiamen, Fujian, China
Termination	Internal
Isolation	Isolated
Primary input	Magnetic pickup
Proximitior use	Requires external power supply
Input range	+5 to -11 V
Input impedance	21.8 kohm minimum
Frequency range	0.017 Hz to 20 kHz
Rack space	1 full-height rear slot
Operating temperature	-30 to +65 degC

1 IDENTITY

Record 125800-02.

2 INTERFACE

Document mounting and connections.

3 CONFIGURATION

Confirm system and channel.

4 PROOF

Complete functional acceptance.

ENGINEERING BOUNDARY

Use the exact ordering-code values shown here together with the physical marking and installed-system record. Confirm mounting, connections and the configured channel before release.

Applications and Precautions

MAGNETIC-PICKUP SPEED SENSING

Accepts passive pickup pulses for shaft-speed timing above the published minimum speed.

PARALLEL CONTROL-SYSTEM REFERENCE

Provides isolation where one Keyphasor signal is tied to multiple devices.

REDUNDANT TIMING ARCHITECTURE

Supports documented primary and backup Keyphasor arrangements in paired modules.

ISOLATED PROXIMITOR REFERENCE

Accepts a Proximitor signal when the required external transducer supply is provided.

Controlled Checks

NO.	CHECK
1	Confirm the complete 125800-02 isolated-module marking.
2	Pair it with the correct Enhanced Keyphasor front module and rear slot.
3	Keep the isolated input within +5 to -11 V.
4	Provide an external supply when a Proximitor transducer is used.
5	For passive magnetic pickups, confirm shaft speed exceeds 200 rpm.
6	Document every parallel destination and verify isolation before reconnection.
7	Account for the isolated I/O module's additional phase shift if phase is used.
8	Prove speed, timing, phase suitability and final rack diagnostics before release.

FAQ, Related Products and Source

QUESTION	ANSWER
Why is 125800-02 called an isolated Keyphasor I/O module?	It isolates a Keyphasor signal that is tied in parallel to multiple devices, such as a machinery-protection rack and a control system.
Which sensor type is 125800-02 primarily designed for?	The manufacturer identifies it primarily for magnetic-pickup applications.
Can a Proximitior signal be connected to 125800-02?	Yes, but an external power supply must be provided for the Proximitior application.
What voltage range is accepted by 125800-02?	The isolated I/O input range is +5 V to -11 V.
What minimum speed applies to a passive pickup on 125800-02?	A passive magnetic pickup requires shaft speed above 200 rpm, equivalent to 3.3 Hz.
Is 125800-02 preferred for precision phase work?	Its primary intent is speed measurement; it can provide phase, but the isolated execution introduces more phase shift than the non-isolated version.
How should parallel destinations be checked when commissioning 125800-02?	Record each destination, prove galvanic separation, verify signal amplitude at every device and confirm that no ground loop distorts the pulse.
What final evidence should be kept for 125800-02?	Retain transducer type, external supply where used, input range, threshold, hysteresis, speed accuracy, phase-shift assessment and rack diagnostics.

Related Bently Nevada Products

MODEL	RELATION	APTER POWER PAGE
3500-42M-SIL2-09-01	Bently Nevada machinery-monitoring component	View 3500-42M-SIL2-09-01
3500-44M	Bently Nevada machinery-monitoring component	View 3500-44M
3500-45-140072-04	Bently Nevada machinery-monitoring component	View 3500-45-140072-04
3500-42E-285691-01	Bently Nevada machinery-monitoring component	View 3500-42E-285691-01
3500-42E-289837-01	Bently Nevada machinery-monitoring component	View 3500-42E-289837-01
3500-42M-128229-01	Bently Nevada machinery-monitoring component	View 3500-42M-128229-01
3500-42M-140734-02	Bently Nevada machinery-monitoring component	View 3500-42M-140734-02
3500-42M-176449-02	Bently Nevada machinery-monitoring component	View 3500-42M-176449-02

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