

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.

IDENTITY	VERIFIED VALUE	TRADE	VERIFIED VALUE
Manufacturer	Bently Nevada	Country of origin	USA
Model	125800-02	HS code	8537101190
Product	Isolated Keyphasor I/O Module with Internal Terminations	Ship from	Xiamen, Fujian, China
Family	3500/25 Enhanced Keyphasor Module	Dimensions	

DOCUMENT SCOPE

Exact model identity, supported configuration data, installation checks, applications, precautions and controlled acceptance records.

MODEL-SPECIFIC ENGINEERING NOTE

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

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125800-02

Verified Product Record

PARAMETER	VERIFIED VALUE
Country of origin	USA
HS code	8537101190
Ship from	Xiamen, Fujian, China
Termination	Internal
Isolation	Isolated
Primary input	Magnetic pickup
Proximitoer 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

Installation Boundary

ENGINEERING BOUNDARY

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

CHECK	REQUIRED RECORD
Identity	125800-02
Installed arrangement	Position, mating hardware, cable and termination
Configuration	Associated module or monitor channel
Acceptance	Diagnostics and controlled functional proof

SOURCE BOUNDARY

Baker Hughes / Bently Nevada publication 141532 Rev. Y. Apply only the exact ordering-code values shown in this document and verify the installed marking before work.

System Role and Verification

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.

IDENTITY

Record 125800-02 from the physical marking.

INTERFACE

Document every mating part, connector and cable before disturbance.

CONFIGURATION

Confirm the associated system and channel using manufacturer records.

ACCEPTANCE

Restore the documented arrangement and prove operation before release.

Controlled Installation Checklist

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 Proximito 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.

Applications and Model-Specific FAQ

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.

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 Proximitor signal be connected to 125800-02?	Yes, but an external power supply must be provided for the Proximitor 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.

Precautions and Related Products

NO.	PRECAUTION
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 Proximitar 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.

Related Bently Nevada Products on Apter Power

MODEL	RELATION	APTER POWER PAGE
3500-32-01-01	Bently Nevada machinery-monitoring component	View 3500-32-01-01
3500-32-125712-01	Bently Nevada machinery-monitoring component	View 3500-32-125712-01
3500-32M-149986-02	Bently Nevada machinery-monitoring component	View 3500-32M-149986-02
3500-33-149986-01	Bently Nevada machinery-monitoring component	View 3500-33-149986-01
3500-33-149992-01	Bently Nevada machinery-monitoring component	View 3500-33-149992-01
3500-33-SIL2-03-01	Bently Nevada machinery-monitoring component	View 3500-33-SIL2-03-01
3500-40M-176449-01	Bently Nevada machinery-monitoring component	View 3500-40M-176449-01
3500-42E	Bently Nevada machinery-monitoring component	View 3500-42E

MANUFACTURER SOURCE RECORD

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

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