

125800-01

Keyphasor I/O Module with Internal Terminations

Bently Nevada 125800-01 is the non-isolated Keyphasor I/O module with internal terminations for a 3500/25 Enhanced Keyphasor Module. The paired system accepts proximity-probe or magnetic-pickup inputs and provides timing references for speed, phase and vector measurements.

IDENTITY	VERIFIED VALUE	TRADE	VERIFIED VALUE
Manufacturer	Bently Nevada	Country of origin	USA
Model	125800-01	HS code	8537101190
Product	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

Pair 125800-01 with the documented 149369-01 Enhanced Keyphasor main module and keep the input wiring within the non-isolated range. Configure threshold, hysteresis and events per revolution from the actual transducer signal, then verify buffered and rack Keyphasor outputs.

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125800-01

Verified Product Record

PARAMETER	VERIFIED VALUE
Country of origin	USA
HS code	8537101190
Ship from	Xiamen, Fujian, China
Termination	Internal
Isolation	Non-isolated
Input types	Proximity probe or magnetic pickup
Input range	+0.8 to -21.0 V
Input impedance	21.8 kohm minimum
Frequency range	0.017 Hz to 20 kHz
Buffered outputs	Front and rear
Rack space	1 full-height rear slot
Operating temperature	-30 to +65 degC

Installation Boundary

ENGINEERING BOUNDARY

Pair 125800-01 with the documented 149369-01 Enhanced Keyphasor main module and keep the input wiring within the non-isolated range. Configure threshold, hysteresis and events per revolution from the actual transducer signal, then verify buffered and rack Keyphasor outputs.

CHECK	REQUIRED RECORD
Identity	125800-01
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 125800-01 is the non-isolated Keyphasor I/O module with internal terminations for a 3500/25 Enhanced Keyphasor Module. The paired system accepts proximity-probe or magnetic-pickup inputs and provides timing references for speed, phase and vector measurements.

IDENTITY

Record 125800-01 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	Verify the 125800-01 marking and internal-termination type.
2	Pair it with the documented 149369-01 main module and correct rear slot.
3	Keep the non-isolated input within +0.8 to -21.0 V.
4	Verify whether each channel uses a proximity probe or magnetic pickup.
5	Select manual or automatic threshold from the measured waveform, not a copied channel.
6	Set hysteresis between 0.2 and 2.5 V as required by the actual signal.
7	Confirm events per revolution and channel pairing before phase use.
8	Prove speed, buffered outputs, phase reference and final diagnostics before release.

Applications and Model-Specific FAQ

SHAFT SPEED REFERENCE

Supplies a timing pulse from a proximity probe or magnetic pickup.

1X PHASE MEASUREMENT

Provides the angular reference needed for vector amplitude and phase.

MULTI-EVENT GEAR REFERENCE

Supports configured event processing up to the published frequency limit.

LEGACY KEYPHASOR UPGRADE

Pairs with the enhanced main module while retaining supported form, fit and function.

QUESTION	ANSWER
Is 125800-01 an isolated Keyphasor I/O module?	No. It is the non-isolated I/O module with internal terminations.
Which main card operates with 125800-01?	Use the 149369-01 Enhanced Keyphasor Module in the documented half-height front position.
What input range applies to 125800-01?	The non-isolated Keyphasor I/O range is +0.8 V to -21.0 V.
Which transducers may feed 125800-01?	The paired Keyphasor module accepts proximity-probe transducers or magnetic pickups.
When can automatic threshold be used with 125800-01?	The signal must be at least 2 V peak-to-peak and at least 120 rpm or 2 Hz.
What manual-threshold amplitude is needed on 125800-01?	The published minimum signal amplitude is 500 mV peak-to-peak; the threshold is selectable from 0 to -20 Vdc.
What frequency span can 125800-01 support through the enhanced module?	The input processing range is 0.017 Hz to 20 kHz, including multiple events per revolution.
Which outputs should be checked after 125800-01 commissioning?	Verify both front coaxial buffered outputs and rear Euro-style buffered outputs against speed and phase expectations.

Precautions and Related Products

NO.	PRECAUTION
1	Verify the 125800-01 marking and internal-termination type.
2	Pair it with the documented 149369-01 main module and correct rear slot.
3	Keep the non-isolated input within +0.8 to -21.0 V.
4	Verify whether each channel uses a proximity probe or magnetic pickup.
5	Select manual or automatic threshold from the measured waveform, not a copied channel.
6	Set hysteresis between 0.2 and 2.5 V as required by the actual signal.
7	Confirm events per revolution and channel pairing before phase use.
8	Prove speed, buffered outputs, phase reference and final diagnostics before release.

Related Bently Nevada Products on Apter Power

MODEL	RELATION	APTER POWER PAGE
3500-15-05-05-01	Bently Nevada machinery-monitoring component	View 3500-15-05-05-01
3500-15-106M1079-01	Bently Nevada machinery-monitoring component	View 3500-15-106M1079-01
3500-15-106M1081-01	Bently Nevada machinery-monitoring component	View 3500-15-106M1081-01
3500-15-106M2686-00	Bently Nevada machinery-monitoring component	View 3500-15-106M2686-00
3500-15-114M5330-01	Bently Nevada machinery-monitoring component	View 3500-15-114M5330-01
3500-15-127610-01	Bently Nevada machinery-monitoring component	View 3500-15-127610-01
3500-15-133292-01	Bently Nevada machinery-monitoring component	View 3500-15-133292-01
3500-15-DC	Bently Nevada machinery-monitoring component	View 3500-15-DC

MANUFACTURER SOURCE RECORD

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

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