

Bently Nevada 128718-01

01 / EURO STYLE EXTERNAL TERMINATION

Bently Nevada 128718-01 is a Keyphasor external termination block with Euro Style connectors. It provides the external wiring interface for the 3500/25 Keyphasor arrangement through a separately selected signal-to-termination cable.

Component identity

Product	128718-01 Keyphasor ET block
Connections	Euro Style execution
System path	External-termination I/O and separate 129530 cable
Separate variant	128726-01 uses terminal strip connectors

Keyphasor connection path

Field circuit Selected Keyphasor transducer	Termination 128718-01 ET block and 129530 cable	Rack path External I/O and 3500/25 module
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System role

The block belongs to the Keyphasor external-termination hardware path. The 3500/25 module performs signal processing; the block, interconnecting cable and selected I/O execution must remain a coordinated installation. Isolated and non-isolated I/O arrangements have different signal and transducer-power considerations.

Component boundary

128718-01 identifies a Euro Style external termination block. The main 3500/25 module, its I/O module and the interconnecting cable perform different functions. Host-module signal limits, thresholds and output ratings below describe the associated system; they are not standalone ET-block power or processing ratings.

Related machinery-monitoring products

Bently Nevada 128031-01	Related monitoring product; verify system and function
Bently Nevada 114M5330-01	Related monitoring product; verify system and function

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02 / I/O SELECTION AND CABLE OPTIONS

External-termination hardware

3500/25 I/O option 02	External terminations, non-isolated
3500/25 I/O option 05	External terminations, isolated
126648-01	Non-isolated external-termination I/O spare
126648-02	Isolated external-termination I/O spare
128726-01	Separate ET block with terminal-strip connectors

Ordering restriction

ET blocks cannot be used with internal-termination I/O modules. When external-termination I/O is selected, order both the termination block and cable separately. A connector-style change is not an automatic conversion between internal and external I/O.

129530 cable length selections

Cable Length Option 0005	5 ft (1.5 m)
Cable Length Option 0007	7 ft (2.1 m)
Cable Length Option 0010	10 ft (3 m)
Cable Length Option 0025	25 ft (7.5 m)
Cable Length Option 0050	50 ft (15 m)
Cable Length Option 0100	100 ft (30.5 m)

Cable assembly selections

Cable Assembly Option 01	Not assembled
Cable Assembly Option 02	Assembled

Selection record

Retain the whole 129530-AAAA-BB identifier with the ET-block and I/O record. Length and assembly are independent decisions and should be checked against the route before connection.

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Timing reference

A Keyphasor signal is a once-per-turn or multiple-event-per-turn shaft or gear pulse. The associated monitor and diagnostic equipment use this timing to calculate shaft speed and vector quantities such as 1X vibration amplitude and phase. Preserving event count and channel identity therefore matters when an ET connection is serviced.

Host-system characteristics

Main module	3500/25; half-height, two-channel
Transducer sources	Proximity transducers or magnetic pickups
Normal rack configuration	Up to four Keyphasor signals
Paired rack configuration	Up to eight Keyphasor signals
Non-isolated I/O input	+0.8 to -21.0 V
Isolated I/O input	+5 to -11 V
Passive magnetic-pickup condition	Shaft speed greater than 200 rpm (3.3 Hz)

How the ET block participates

The external termination establishes the wiring path into the selected I/O and module. Signal conditioning occurs in the 3500/25. An ET-block replacement must preserve the source type, channel mapping and event relationship; a mechanical connector match alone does not establish the intended timing function.

Isolation and phase

The isolated Keyphasor I/O version was designed for magnetic-pickup applications where signals are tied in parallel to multiple devices. Proximitors require an external power supply. Isolated I/O introduces more phase shift than non-isolated I/O and is primarily intended for shaft-speed measurement; evaluate phase work with the actual I/O arrangement.

Related machinery-monitoring products

Bently Nevada 3500/60	Related monitoring product; verify system and function
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3500/25 host conditioning settings

Host input range	1 to 1,200,000 cpm (0.017 to 20 kHz)
Multiple-event input ceiling	20 kHz
Host output range	1 to 99,999 cpm (0.017 to 1667 Hz)
Automatic threshold	2 V peak-to-peak minimum; 120 rpm (2 Hz) minimum
Manual threshold	0 to -20 VDC, user-selectable
Manual minimum amplitude	500 mV peak-to-peak
Hysteresis	0.2 to 2.5 V, user-selectable

Threshold selection

Automatic and manual threshold conditions describe the host module. For a low-speed or low-amplitude input, compare the actual signal with the appropriate mode before changing settings. Keep the existing event-per-revolution configuration under the machine procedure.

Paired and TMR arrangements

TMR Keyphasor applications use two modules operating in parallel as primary and secondary references. A paired arrangement can accept four primary and four backup inputs. Identify both paths before service so the returned reference reaches its intended module.

Does 128718-01 itself generate the digital Keyphasor reference?

The 3500/25 module receives proximity-transducer or magnetic-pickup signals and converts them to the digital Keyphasor reference. 128718-01 serves the external termination path.

Why should phase measurements be reviewed when servicing 128718-01 in an isolated I/O arrangement?

Isolated Keyphasor I/O introduces more phase shift than the non-isolated version and is primarily intended for shaft-speed measurement. Evaluate the actual I/O execution and machine speed before interpreting phase results.

Related machinery-monitoring products

Bently Nevada 3500/45	Related monitoring product; verify system and function
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05 / SERVICE REVIEW AND RELATED HARDWARE

How is 128718-01 different from the terminal-strip Keyphasor block?

128718-01 uses Euro Style connectors. The terminal-strip external termination block is 128726-01; connector execution is the distinguishing selection.

Can 128718-01 be used with an internal-termination I/O module?

No. External termination blocks cannot be used with internal-termination I/O modules. Select the corresponding external-termination I/O arrangement.

Inspection and acceptance map

Identity	Euro Style block and intended external I/O
Cable	Selected 129530 length and assembly
Mapping	Field connections agree with channel drawing
Reference	Expected event count and stable speed indication
Release	Machine functional test and protection restoration

Related machinery-monitoring products

Bently Nevada 128229-01	Related monitoring product; verify system and function
Bently Nevada 3500/90	Related monitoring product; verify system and function
Bently Nevada 3500/32M	Related monitoring product; verify system and function
Bently Nevada 3500/64M	Related monitoring product; verify system and function

Manufacturer reference

3500/25 Enhanced Keyphasor Module, Datasheet 141532 Rev. Y: Keyphasor function and isolated I/O context pp. 1-2; host signal specifications p. 3; external termination restrictions p. 7; 128718-01, 129530 cables and related spares pp. 8-9. This guide organizes selected manufacturer facts and practical installation checks; the installed equipment wiring and commissioning procedure controls field work.

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