

01 / PLAN THE TERMINATION WORK

Equipment covered

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.

Read the block and I/O identities

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

Confirm the 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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01 Establish the machine work boundary

Before disconnecting a reference used by monitoring or protection channels, identify the affected machinery functions and apply the plant isolation and protection procedure. Keep wire labels and the installed wiring drawing available. These service checks do not define shutdown settings or authorize bypassing protection.

02 Confirm the external I/O execution

Read the installed I/O identity. Non-isolated 126648-01 and isolated 126648-02 are external-termination spares; internal-termination I/O does not accept an ET block. Keep connector-style selection separate from the I/O isolation decision.

03 Record the source and timing role

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.

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02 / SELECT AND ROUTE THE CABLE

129530 cable length choices

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)

Assembly choice

Cable Assembly Option 01	Not assembled
Cable Assembly Option 02	Assembled

04 Verify the actual cable

Compare the complete cable label with the installation record. Confirm the route reaches the ET block and rack I/O without connector strain. The documented options identify ordered length and assembly; they do not supply a terminal-by-terminal wiring map.

05 Inspect before termination

Check the Euro Style connectors, field labels and cable ends for damage or contamination. Follow the installed wiring instructions for conductor placement and connection practice. Preserve the original channel map rather than inferring a terminal function from physical position.

Related machinery-monitoring products

Bently Nevada 128031-01	Related monitoring product; verify system and function
Bently Nevada 128229-01	Related monitoring product; verify system and function

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03 / CONNECT THE CORRECT I/O ARRANGEMENT

External-termination selections

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

06 Review the isolation boundary

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.

07 Check the transducer source

Identify a proximity-transducer or magnetic-pickup input before reconnection. For a passive magnetic pickup, the host data specifies shaft speed above 200 rpm (3.3 Hz). Treat that condition as a transducer/host requirement, not an ET-block minimum speed.

08 Verify the field connections

With the work boundary established, compare each restored connection with the installed drawing and labels. Keep primary and backup references distinct where paired modules are used. Do not energize an uncertain circuit merely to discover its channel assignment.

What power check matters when 128718-01 is used with isolated I/O and a Proximitors?

The isolated I/O arrangement supports Proximitors applications when an external power supply is provided. Apply that requirement to the selected transducer circuit rather than assuming that the ET block supplies the required power.

Related machinery-monitoring products

Bently Nevada 114M5330-01

Related monitoring product; verify system and function

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04 / RESTORE AND TEST THE REFERENCE

Host input and threshold context

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

09 Confirm the configured reference

Check the intended number of events per revolution and the module threshold mode under the machine procedure. The ET block does not set event count; changes in the transducer or host configuration can change the resulting speed or timing interpretation.

10 Assess speed and phase independently

Confirm the recovered speed indication and timing reference with the installed test method. Where phase is used, account for the selected isolated or non-isolated I/O execution. A stable speed display alone does not validate phase accuracy.

11 Restore the protection function

Complete the prescribed machine functional test and restore the normal monitoring/protection arrangement. Retain connection changes and test results with the channel record.

Related machinery-monitoring products

Bently Nevada 3500/90	Related monitoring product; verify system and function
Bently Nevada 3500/32M	Related monitoring product; verify system and function

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05 / HANDOVER AND FUTURE REPLACEMENT

Acceptance record

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

Which cable family connects 128718-01 to the Keyphasor rack path?

129530-AAAA-BB is the Keyphasor signal-to-ET-block cable family. Choose its length and assembly option separately; the block and cable are separate ordering items.

What does the assembly suffix on a cable selected for 128718-01 mean?

For 129530 cables, BB01 means not assembled and BB02 means assembled. This suffix describes the cable supply configuration, not a different ET-block connector type.

Related machinery-monitoring products

Bently Nevada 3500/64M	Related monitoring product; verify system and function
Bently Nevada 3500/60	Related monitoring product; verify system and function
Bently Nevada 3500/45	Related monitoring product; verify system and function

Future service boundary

Related monitoring products have different roles and configurations. Check the installed system, I/O option and full part number independently before any selection; these links do not establish substitution.

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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