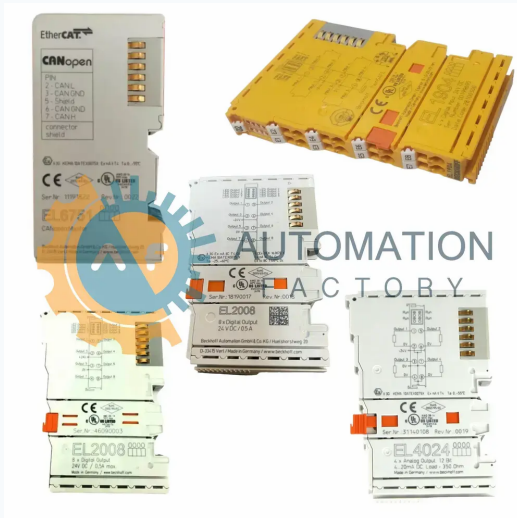




Beckhoff — EL EtherCAT Terminals

EL1262



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The **EL1262** is a digital input interface manufactured by Beckhoff within the EL EtherCAT Terminals series. It captures switch and sensor states on a machine and relays them to a controller through the **EtherCAT fieldbus**. The terminal slots into a compact, modular I/O rack, allowing additional signals to be connected without rewiring the entire control panel. This design is suitable for synchronized packaging lines, material sorters, and other time-critical automation systems.

The EL1262 functions as a **Digital Input Terminal**, so each channel accepts logic-level input signals and does not source output power. The terminal operates with a microcycle time of **1 µs**, allowing it to sample fresh data every microsecond for precise event tracking. When an application requires finer temporal resolution, the terminal can use a sampling factor of up to **1000x** between two network updates. The **Oversampling** mode stores these sample bursts locally and transmits them during the next available EtherCAT interval. Whether standard or oversampled scanning is used, the payload is forwarded once per **bus cycle**. This timing supports deterministic synchronization with motion axes and other distributed I/O nodes.

Process images use the **Array Package** format, in which each array element corresponds to the bit state of a connected sensor. The module buffers these bits in a **State Array**, allowing the PLC to read a coherent snapshot even when the physical input lines change asynchronously. ScopeView accepts terminal data from **all revisions**, which supports diagnostic and trending tasks across installations using different product generations. The EL EtherCAT Terminals format provides consistent housing dimensions and push-in connectors throughout the

platform. Its modular arrangement also allows the terminal to be installed beside compatible I/O modules while preserving an orderly signal path through the rack.

Specifications

Data Package Type:	Array Package	Device Type:	Digital Input Terminal	Input Channels:	2
Input Current (typical):	3 mA	Input Data Storage:	State Array	Input Voltage:	230 V
Max Oversampling:	1000x	Microcycle Time:	1 μ s	Number Of Phases:	3-Phase
Oversampling Factor:	1 to 1000 (configurable)	Phases:	3	Rated Load:	2 HP
Sampling Mode:	Oversampling	Sampling Rate:	Up to 1 Msps	Scopeview Support:	All Revisions
Signal Type:	Fast binary 24 V signals	Signal Voltage Range (0):	-3 to +5 V	Signal Voltage Range (1):	11 to 30 V
Timestamp Precision:	10 ns + input delay	Transfer Basis:	Bus Cycle	Type:	Frequency Inverter Drive
Last Verified:	10/24/2026 8:12 PM				

Contact Us

-  1620 Old Apex Road, Cary, NC 27513, USA
-  **Toll Free:** [1-888-551-3082](tel:1-888-551-3082)
-  **International:** [1-919-443-0207](tel:1-919-443-0207)
-  **Fax:** [1-919-867-6204](tel:1-919-867-6204)
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