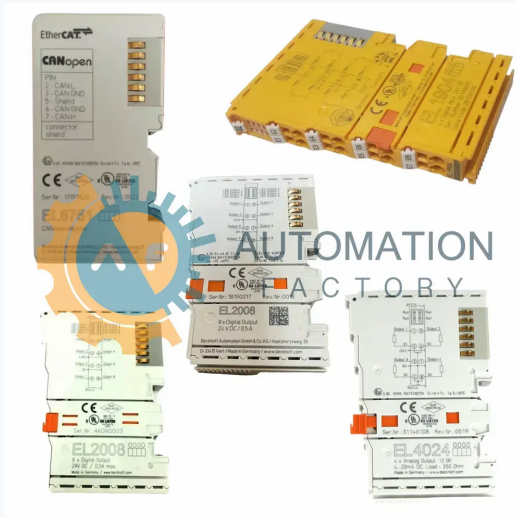


Beckhoff — EL EtherCAT Terminals

EL4134



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The **EL4134** is an analog output EtherCAT terminal produced by Beckhoff within the EL EtherCAT Terminals series. It converts digital commands from the network into precise voltage levels, allowing PLCs to control proportional actuators, signal conditioners, or measurement equipment directly through the EtherCAT backplane. In industrial automation, the module provides deterministic signal generation without the external wiring normally required for separate analog cards. Its compact terminal format also allows the output points to be installed alongside other EtherCAT I/O modules in a control cabinet.

The maximum conversion rate is **4 kSps** when Distributed Clocks are disabled, while activating this synchronization feature changes the upper rate to **2.5 kSps**. Output words are processed at a resolution of **16 bits**, providing 65,536 discrete steps across the commanded voltage range. The terminal writes and refreshes its outputs simultaneously, so every channel updates in lockstep for coordinated multi-axis motion or synchronized signal testing. Process data appear in the controller image as one entry per channel, simplifying scaling and data handling within the control program. Protection against contact and solid particles meets the **IP20** rating, making the terminal suitable for installation inside a protected control cabinet.

EtherCAT operation requires a cycle time of **250 µs** without Distributed Clocks and **400 µs** when they are enabled. The terminal provides **4 single-ended outputs** referenced to ground, and each output can source up to **40 mA** for connection to compatible voltage-controlled devices. Both the electronics and output stages receive power exclusively through **the E-bus**, eliminating the need for external power jumpers within the I/O row. The output

circuits are protected against short circuits, reducing the risk of damage to the digital-to-analog converters if a connected load develops a fault. Built-in fault detection monitors output operation and supports rapid identification of abnormal load conditions. The synchronized conversion process keeps the commanded signals aligned with the applicable EtherCAT cycle timing.

Specifications

Current Consumption E-bus:	typ. 190 mA	Distributed Clock Precision:	<< 1 us	Distributed Clocks:	Yes
Ground Reference:	Single Ended	Load:	> 5 kohm (short-circuit proof)	Max Sampling Rate (dc Disabled):	4 kSps
Max Sampling Rate (dc Enabled):	2.5 kSps	Min Ethercat Cycle (dc Disabled):	250 µs	Min Ethercat Cycle (dc Enabled):	400 µs
Number Of Outputs:	4	Operating Temperature:	-25...+60C	Output Error:	< 0.1% (relative to end value)
Output Rate:	max. 4 ksps	Power Supply:	via the E-bus	Power Supply For Electronics:	Via E-bus
Power Supply For Outputs:	Via E-bus	Process Image Bit Width:	4 x 16-bit	Protection Rating:	IP20
Resolution:	16 bits	Sampling Type:	Simultaneous	Short-circuit Proof:	Yes
Signal Voltage:	-10...+10 V	Storage Temperature:	-40...+85C	Terminal Point Capacity:	40 mA
Vibration/shock Resistance:	conforms to EN 60068-2-6/EN 60068-2-27	Last Verified:	10/24/2026 1:31 AM		

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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