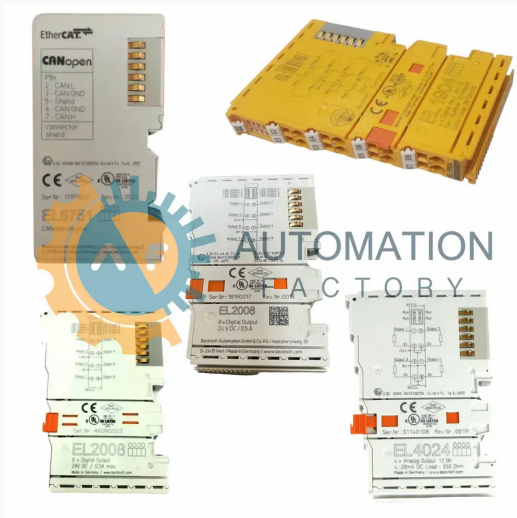




Beckhoff — EL EtherCAT Terminals

EL4014



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The **EL4014** analog output terminal is produced by Beckhoff for the EL EtherCAT Terminals series. In distributed control panels, this component provides current outputs that allow a PLC to modulate actuators, valve positions, or reference signals inside industrial machines. Installation is straightforward because the module fastens to a 35 mm DIN mounting rail and draws its field and logic power through the EtherCAT bus coupler and adjacent power contacts.

This terminal provides **4** single-ended current channels. Each output uses a **12-bit** resolution, allowing the controller to select 4,096 discrete levels across the configured current range. In each cyclic EtherCAT frame, the terminal uses a **4 × 16-bit AO output process image**, allowing all channels to be updated together even though the internal signal generation is multiplexed. The electronics receive power from a **24 VDC** supply connected through the neighboring power contact, while the EtherCAT Distributed Clocks feature synchronizes signal changes with network events. A hardware timestamp accuracy of **< 100 ns** supports deterministic drive and measurement tasks that require tightly coordinated analog references.

The analog stage uses a single-ended ground configuration with one common return, so external wiring should be arranged to prevent ground loops. Under rated operating conditions, the ground terminal can carry up to **500 mA**, providing a shared return path for the output channels. Each channel supports resistive loads of **< 350 Ω**; maintaining a load within this limit helps preserve output performance with a total measuring error of **±0.1%**. The front housing has an **IP20** protection rating, making the module suitable for clean cabinet interiors where the

surrounding enclosure prevents unintended contact with live parts.

Specifications

Approvals/markings:	CE, CCC, UL, ATEX, IECEX, DNV GL, cFMus	Conversion Time:	~ 250 µs	Current Consumption E-bus:	typ. 140 mA
Current Consumption Power Contacts:	typ. 50 mA	Dc Precision:	< 100 ns	Distributed Clock Precision:	<< 1 µs
Distributed Clocks:	Yes	Ground Reference:	Single Ended	Ground Terminal Current:	500 mA
Load:	< 350 ? (short-circuit proof)	Load Max:	< 350 ?	Measuring Error:	< ±0.1%
Mounting Rail:	35 mm	Number Of Outputs:	4	Operating Temperature:	-25...+60°C
Output Error:	< 0.1% (relative to end value)	Power Supply:	24 VDC	Process Image Width:	4 x 16-bit AO Output
Protection Class:	IP20	Resolution:	12 bit	Sampling Type:	Multiplex
Signal Current:	0...20 mA	Storage Temperature:	- 40...+85°C	Last Verified:	10/24/2026 6:51 AM

Contact Us

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