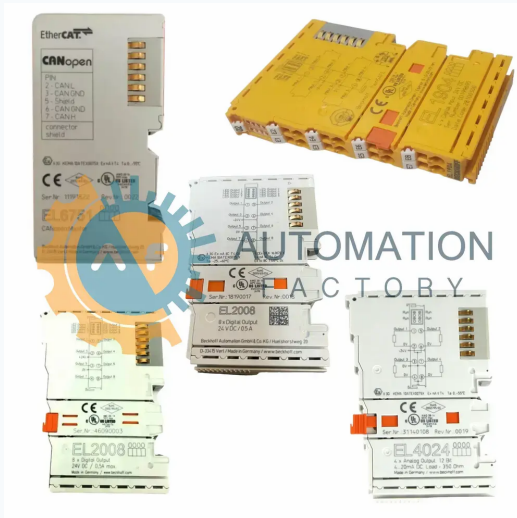




Beckhoff — EL EtherCAT Terminals

EL2032



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The **EL2032** is a digital output module produced by Beckhoff and supplied within the EL EtherCAT Terminals series. Designed for DIN rail mounting on distributed I/O stations, the terminal switches 24 V field devices directly from an EtherCAT network. This design allows compact actuation of solenoids, lamps, or small relays in industrial automation cells. The electronic supply is derived automatically from the E-Bus, eliminating the need for a separate logic feed. Each of the two output channels is rated for a maximum load of **2 A** at a field potential of **24 VDC**. Fast response is supported by a turn-on delay of **40 µs** and a turn-off delay of **200 µs**, so higher-speed sequences can be executed without perceptible lag. The terminal contains two independent high-side switches; therefore, the module provides **2** discrete outputs that can be driven simultaneously. Reverse-voltage protection prevents damage if the supply polarity is accidentally inverted, and short-circuit detection disconnects the affected channel when excessive current is sensed. Open-circuit detection signals broken wiring before it causes a process fault.

The process image maps the outputs and diagnostic bits directly into the controller as **2 output bits and 2 input bits**, simplifying PLC programming. Backbone consumption is limited to **100 mA** from the EtherCAT E-Bus, leaving ample power capacity for additional terminals in the strand. The module accepts **ohmic, inductive, and lamp loads** without external suppression networks, and its switching semiconductors minimize residual voltage across these load types. An enclosure rated **IP20** protects the electronics from finger contact and foreign objects inside control cabinets, while the variable installation position allows the housing to be oriented as space permits. Reverse-wired supply conductors are blocked internally, and the elastomer seal around the contacts supports long-term

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reliability in environments subject to vibration.

Specifications

Breaking Energy:	< 1.7 J/channel	Connection Technology:	4-wire	Current Consumption E-bus:	typ. 100 mA
Current Consumption Power Contacts:	typ. 13 mA + load	Current Via E-bus:	100 mA	Distributed Clocks:	A"
Electronic Supply:	Via E-Bus	Installation Position:	Variable	Load Type:	Ohmic, Inductive, Lamp Load
Max. Output Current:	2.0 A (short-circuit proof) per channel	Nominal Voltage:	24 V DC (-15%/+20%)	Number Of Outputs:	2
Open Circuit Detection:	Yes	Operating Temperature:	-25A-+60AC	Output Current Per Channel:	2 A
Process Image:	2 Output Bits, 2 Input Bits	Protection Class:	IP20	Protection Rating Installation Position:	IP20, variable
Rated Output Voltage:	24 VDC	Reverse Voltage Protection:	Yes	Short Circuit Detection:	Yes
Short-circuit Current:	typ. < 70 A	Switching Time Toff:	200 µs	Switching Time Ton:	40 µs
Switching Times:	typ. T_ON: 40 Aus, typ. T_OFF: 200 Aus	Last Verified:	10/24/2026 1:34 PM		

Contact Us

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Shipping Options



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