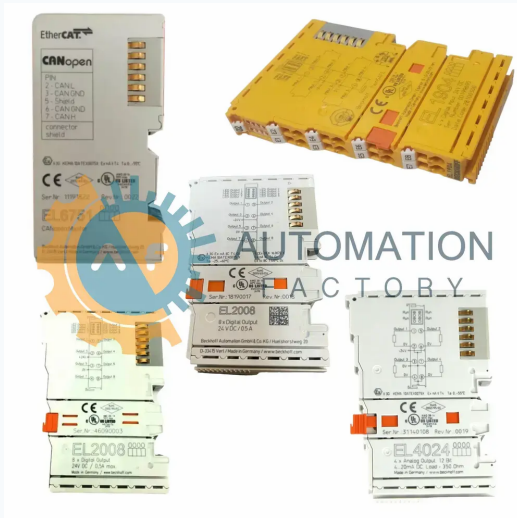




Beckhoff — EL EtherCAT Terminals

EL4032



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The **EL4032** analog output terminal is produced by Beckhoff for the EL EtherCAT Terminals series. It is a two-channel voltage module that converts digital control data from an EtherCAT network into process-level signals for actuators or external controllers. Within an automation station, the part plugs onto a DIN rail beside other terminals, sharing the fieldbus and power through the integrated backplane. Its role is to supply precise analog references so that drives, valves, or measurement circuits can be commanded directly by the real-time EtherCAT system.

Its electronics are fed from the EtherCAT backplane via the **E-bus**, while field devices draw up to **24 VDC** from the front supply contacts. The terminal provides **2** single-ended outputs referenced to the internal ground; each path uses a **12-bit** digital-to-analog converter. Output channels are scanned in a **multiplexed** sequence that balances conversion speed with deterministic timing. The process image presents a 2×16 -bit analog-output map so the controller can write full-scale words without additional packing overhead. Built-in distributed clocks keep the channel timing aligned to sub-microsecond accuracy across the EtherCAT ring, which supports synchronous motion or closed-loop regulation.

The housing meets **IP20** protection, so live conductors are protected against accidental contact when the module is installed on a **35 mm** DIN rail. The installation position is variable, allowing horizontal or vertical mounting without derating. Zero-volt feed-through contacts can supply up to **500 mA** to downstream terminals, and a separate shield terminal carries up to **100 mA** to maintain shield continuity for analog cables. This current routing supports clean wiring practices by keeping signal returns and shield drains close to the source terminal. Because the outputs are

single-ended, the common reference must remain within the 24 V supply window to prevent ground shifts in adjacent EtherCAT stations.

Specifications

Conversion Time:	~ 150 μ s	Current Consumption (e-bus):	typ. 140 mA	Current Consumption (power Contacts):	typ. 40 mA
Distributed Clock Precision:	<< 1 μ s	Distributed Clocks:	Yes	Electronics Supply:	E-bus
Ground Reference:	Single-Ended	Installation Position:	Variable	Load:	> 5 k? (short-circuit proof)
Load Resistance:	> 5 k? (short-circuit proof)	Mounting Rail Width:	35 mm	Number Of Outputs:	2
Operating Temperature:	-25...+60°C	Output Error:	< 0.1% (relative to end value)	Power Supply:	24 VDC
Process Image Bit Width:	2 x 16 bit AO output	Process Image Width:	2 x 16-bit AO output	Protection Class:	IP20
Resolution:	12 bit	Sampling Type:	Multiplex	Shield Capacity:	100 mA
Signal Voltage:	-10...+10 V	Special Features:	Optional watchdog; user synchronization can be activated	Zero Volt Capacity:	500 mA
Last Verified:	10/24/2026 1:41 AM				

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