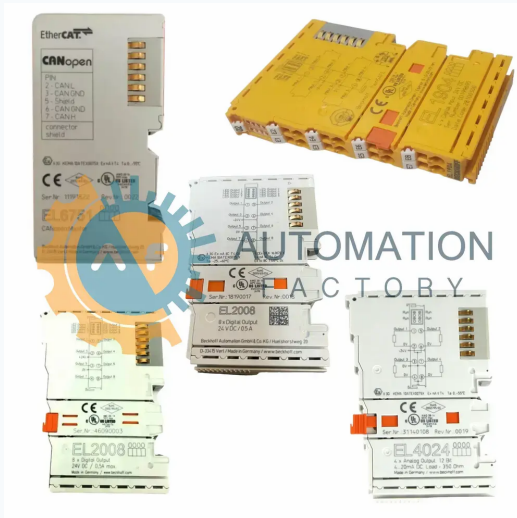




Beckhoff — EL EtherCAT Terminals

EL4104



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The **EL4104** analog output terminal is produced by Beckhoff within the EL EtherCAT Terminals series. Intended for controllers that must generate precise voltages, the module converts digital process data from the fieldbus into four independent single-ended signals for actuators, proportional valves, or measurement equipment. Mounted directly on a DIN rail, it forms part of a modular I/O stack that streamlines distributed automation architectures and removes the need for separate analog interface boards.

Each channel delivers a maximum output update rate of **4 kSps**, so fast control loops receive new analog values every 250 μ s. Signal quality is supported by a native resolution of **16 bits including sign**, allowing tight scaling across the full output span. The terminal occupies **4 x 16-bit data** in the process image, simplifying address mapping in a PLC. The output stages support loads higher than **5 k Ω** , which prevents excessive current draw on sensitive instrumentation. The electronics draw only **190 mA** from the E-bus, keeping power requirements predictable within compact cabinets.

A **single-ended** ground reference means all channels share the same common connection, reducing cabling but requiring attention to ground loops. Installation remains flexible because the housing can be placed in any orientation on a standard **35 mm** mounting rail, and the device retains full functionality in each position. The output stage is short-circuit-proof, and the housing carries a protection rating of **IP20**, guarding against accidental contact. The logic and output sections receive their power solely through the E-bus, eliminating the need for extra supply terminals. Integrated **Distributed Clocks** with simultaneous sampling keep channel-to-channel timing differences

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to a minimum, ensuring coherent signal generation even when many EtherCAT nodes are connected in sequence.

Specifications

Analog output resolution:	16 bit (incl. sign)	Distributed clock precision:	<1 µs	Distributed clock support:	Yes
Distributed Clocks:	Yes	E-bus Current:	190 mA typ.	Ground Reference:	Single-Ended
Installation Position:	Variable	Load:	> 5 k?	Max Output Rate (dc Off):	4 kSps
Max. output rate:	4 kSPS	Mounting Rail:	35 mm	Number of analog outputs:	4
Number Of Outputs:	4	Operating temperature:	-25 to +60 °C	Output accuracy:	<0.1% of full scale
Output load:	>5 k? (short-circuit proof)	Power supply:	E-bus	Process image bit width:	4 x 16 bit AO outputs
Process Image Width:	4 x 16-bit data	Protection Rating:	IP20	Resolution:	16 bits incl. sign
Sampling Type:	Simultaneous	Short-circuit Proof:	Yes	Signal voltage range:	0-10 V
Storage temperature:	-40 to +85 °C	Supply:	Electronics And Outputs Via E-bus	User synchronization:	Activatable
Watchdog:	Parameterizable	Weight:	~65 g	Last Verified:	10/25/2026 1:25 AM

Contact Us

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