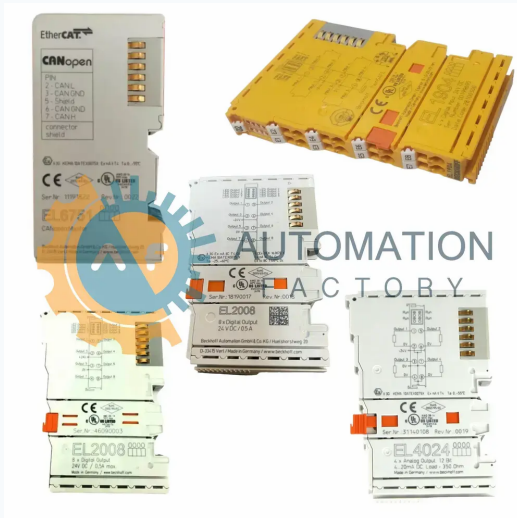




Beckhoff — EL EtherCAT Terminals

EL2258



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The **EL2258** is a digital output terminal manufactured by Beckhoff for the EL EtherCAT Terminals series. It mounts on a DIN rail and links directly to the EtherCAT fieldbus so that a controller can drive 24 V actuators with deterministic timing. In industrial automation, it translates network telegrams into individual switching actions across eight channels, giving machinery precise on-and-off control without external relay boards.

Each terminal provides **8 discrete outputs** that operate from a **24 VDC supply**. A push-pull stage sources or sinks up to **0.5 A per channel**, allowing the module to handle resistive, inductive, or lamp loads, while reverse-polarity circuitry prevents damage if the power supply is wired incorrectly. The enclosure has an **IP20 protection rating**, so the unit is intended for installation inside a control cabinet or another suitable enclosure. Field wiring follows a two-wire scheme, and the internal output stage uses a push-pull design. Distributed-clock support allows the EtherCAT master to align switching events to within **1 ns of a network reference**, which supports synchronized motion and high-speed inspection processes. The terminal accepts up to ten switching commands per PLC cycle, allowing it to support applications that require frequent output changes.

The terminal stores a history of **32 events per channel** in its local buffer, allowing the controller to verify the execution of time-critical commands. Its housing is only **12 mm wide**, conserving panel space when multiple modules are mounted together on the same DIN rail. Each timestamp uses a **32-bit format**, providing a consistent data structure for recording absolute time values within the available range. The terminal can process up to **10 timestamped edges** during a single make-to-switch-function window. This local processing capability allows

scheduled output transitions to occur independently of normal PLC scan timing and network delays.

Specifications

Approvals:	CE, UL	Buffer Capacity:	32 Events/Channel	Connection Technology:	2-Wire
Digital Outputs:	8	Distributed Clock Precision:	<1 µs	Distributed Clocks:	Yes
Housing Width:	12 mm	Internal Sampling Time:	10...40 µs	Load Type:	Ohmic, Inductive, Lamp
Max Mtsf:	10	Max Output Current:	0.5 A per channel, short-circuit proof	Nominal Voltage:	24 V DC (-15%/+20%)
Number of Outputs:	8	Operating Temperature:	0...55 °C	Output Current:	0.5 A/Channel
Output Delay:	typ. <1 µs	Output Stage:	Push	Oversampling Factor:	1...10
Protection Class:	IP20	Rated Voltage:	24 VDC	Reverse Polarity Protection:	Yes
Storage Temperature:	-25...+85 °C	Switching Orders Per Plc Cycle:	10	Timestamp Resolution:	1 ns
Timestamp Width:	32 Bit	Weight:	approx. 55 g	Last Verified:	10/23/2026 9:33 AM

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