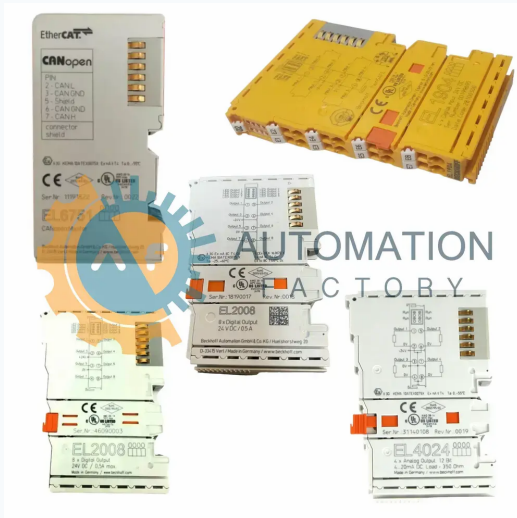




Beckhoff — EL EtherCAT Terminals

EL2252



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The **EL2252** is a two-channel digital output terminal manufactured by Beckhoff within the EL EtherCAT Terminals series. Designed to dock on a DIN rail beside other EtherCAT terminals, the unit supplies precisely timed output pulses to actuators and sensors in distributed automation cells. By using the protocol's Distributed Clocks feature, the terminal aligns its switching events with sub-microsecond accuracy. This capability supports industrial automation applications that require deterministic timing rather than simple on-and-off control.

The terminal delivers a rated output of **24 VDC** per channel and can continuously source up to **0.5 A** into resistive, inductive, or lamp loads. Its driver stage uses a **push-pull topology**, so it can both source and sink current and connect directly to mixed-polarity field devices. The housing has an **IP20 protection rating**, so the terminal must be installed inside a suitable control cabinet. Deterministic operation is aided by a switching time of **< 1 µs**, enabling state changes in less than one microsecond. For brief inrush events, the internal limiter supplies **4 A for 150 µs**, helping protect the output stage while reducing unnecessary fuse trips. Both digital outputs provide these electrical characteristics, and the Distributed Clocks timing accuracy remains well below one microsecond.

For time-critical motion profiles, each output can receive a hardware timestamp with a resolution of **10 ns**. The resulting data occupies **17 bytes plus 4 bits** in the EtherCAT process image that is accessible to the controller. Logic power is supplied entirely through the backplane, and typical E-bus current consumption is **130 mA**. The separate load supply draws approximately 30 mA in addition to the current required by the connected field devices. The controller can schedule the two outputs independently through the process image, allowing solenoids,

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indicators, and other compatible loads to switch at times commanded by the EtherCAT master.

Specifications

Bus System:	EtherCAT Terminal	Channels:	2 (Twin-channel)	Connection Technology:	2-wire
Current Consumption E-bus:	Typically 50 mA	Current Limit (typ.):	4 A / 150 μ s	Dc Accuracy:	<< 1 μ s
Diagnostics:	Short-circuit and open circuit	Digital Outputs:	2	Dimensions (w X H X D):	12 mm x 100 mm x 68 mm
Distributed Clocks:	Yes	E-bus Current (typ.):	130 mA	Electronic Supply:	Via E-Bus
Load Type:	Ohmic, Inductive, Lamp Load	Max Output Current:	0.5 A	Operating Temperature:	-25 $^{\circ}$ C to +60 $^{\circ}$ C
Output Stage:	Push-Pull	Output Type:	Short-circuit proof	Output Voltage:	24 V DC
Polarity:	Positive switching (PNP)	Power Contacts:	24V, max. 10A	Power Current (typ.):	30 mA + Load
Process Image Width:	17 Byte + 4 Bit	Protection Class:	IP20	Rated Load Current:	0.5 A per channel
Rated Output Voltage:	24 VDC	Signal Type:	Digital output	Status Display:	LED per channel
Switching Time:	< 1 μ s	Time Stamp Resolution:	10 ns	Last Verified:	10/24/2026 6:31 AM

Contact Us

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Shipping Options



Payment Methods



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