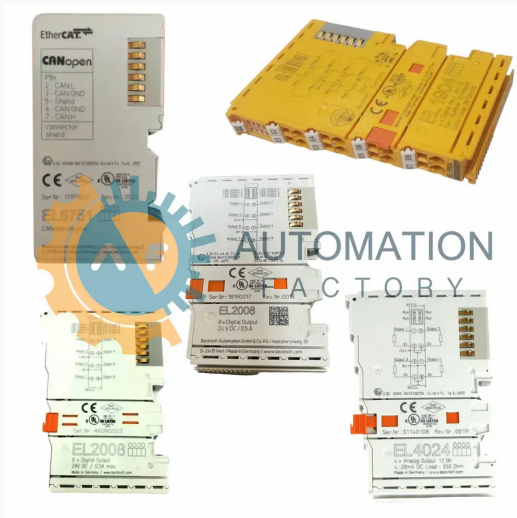




Beckhoff — EL EtherCAT Terminals

EL2262



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The **EL2262** is a digital output terminal manufactured by Beckhoff for the EL EtherCAT Terminals series. Designed for EtherCAT networks, the module snaps onto a DIN rail and provides two high-speed output channels that can drive solenoids, LEDs, or logic interface lines directly from the distributed I/O level. Within an automation cell, it converts the time-deterministic process data of the fieldbus into 24-volt switching signals, supporting precise synchronization of motion events, sampling sequences, and high-frequency trigger tasks.

Each channel is supplied from the system power rail at **24 VDC**, and it can source up to **0.5 A** to resistive, inductive, or lamp loads without an additional driver stage. Fast electronics inside the terminal achieve a switching time of **<1 µs**, so edge delays remain negligible even at the module boundary. Combined with an output rate of **1 Msample/s** and an oversampling factor that reaches 1000, the device can reproduce finely resolved waveforms or pulse trains. A system synchronization accuracy of **<100 ns** aligns those outputs with the distributed clocks of the EtherCAT ring, and the breaking energy per channel remains below 150 mJ to limit contact stress. The typical E-bus current draw is 70 mA, minimizing the load on the coupler.

The terminal exposes **2 configurable digital outputs** in the process image, and the minimum output period of **1 µs** allows deterministic pulse-width modulation directly from the PLC cycle. Integrated foldback monitoring limits fault current to a typical value of **4 A for 150 µs**, protecting upstream supply lines while supporting fast inrush events. The **IP20 enclosure** suits cabinet-mounted installations without direct exposure to dust or liquids. The terminal transfers an output process image of up to 504 bytes during every cycle. It also transfers a 4-byte input

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process image, providing sufficient bandwidth for oversampled data sets.

Specifications

Breaking energy:	<150 mJ/Channel	Configuration:	via TwinCAT System Manager	Connection type:	4-wire
Current consumption power contacts:	typ. 35 mA + load	Current limitation:	4 A / 150 µs Typ.	Digital Outputs:	2
Distributed clock precision:	<< 1 µs	Distributed clocks:	Yes	E-bus Current:	70 mA Typ.
Load Type:	Ohmic, Inductive, Lamp Load	Max output current:	0.5 A (short-circuit proof in push operation) per channel	Min Output Period:	1 µs
Number of outputs:	2	Output Current Per Channel:	0.5 A Max	Output rate:	max. 1 Msample/s, min. cycle 1 µs
Output Rate Max:	1 Msample/s	Oversampling factor:	n = integer multiple of the cycle time, 1...1000	Oversampling Factor Max:	1000
Process Image Input:	4 Bytes Max	Process Image Output:	504 Bytes Max	Protection Class:	IP20
Rated Output Voltage:	24 VDC	Reverse voltage protection:	Yes	Shock Resistance:	Conforms to EN 60068-2-27
Switching Time:	<1 µs	System Sync Accuracy:	<100 ns	Last Verified:	10/24/2026 10:46 AM

Contact Us

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Shipping Options



Payment Methods



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