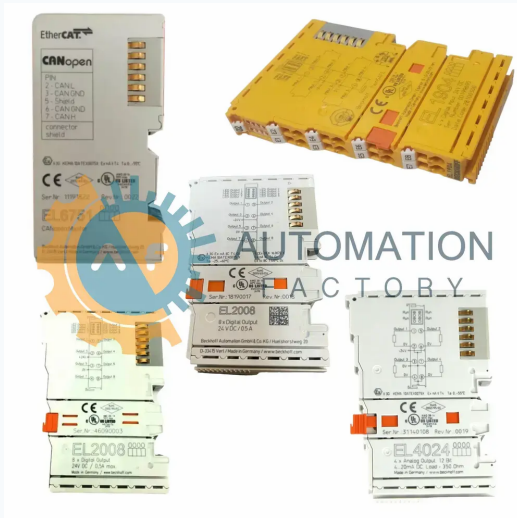




Beckhoff — EL EtherCAT Terminals

EL1852



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The **EL1852** is a combined digital input and output terminal supplied by Beckhoff within the EL EtherCAT Terminals series. Designed for decentralized control cabinets, the unit occupies a single slot on an EtherCAT station and exchanges bit-level process data with the bus controller. By providing eight input channels and eight output channels, it allows PLC programs to monitor sensors and actuate loads through the same terminal without additional wiring hardware in compact machine or building automation systems.

Each input path typically draws 3 mA from the field side and uses a 3 ms filter to suppress contact bounce before transferring the state to the controller. Outputs are energized from the same 24 V supply, and each channel can source up to **0.5 A per channel**. The outputs have a typical rise time of **60 µs** and a typical fall time of **300 µs**. Internal electronics receive power through the E-bus, with typical consumption remaining at **100 mA** to stay within backplane limits. The terminal supports a nominal input voltage of **24 VDC** and includes reverse-voltage protection to guard against wiring errors. Its channels occupy a compact 16-bit process image for data exchange with the controller.

The I/O is presented through **two 10-pin male connectors** that comply with the **IEC 60603-13** standard, allowing ribbon-style harnesses to plug directly into the terminal. Mechanical mounting uses a **35 mm** rail that conforms to EN 60715, so the module can be installed in common control cabinets without tools. The **IP20** housing protects against finger contact and solid objects larger than 12.5 mm when the unit is installed inside an enclosure. The EL1852 shares the uniform dimensions of related Beckhoff terminals, allowing adjacent modules to be stacked

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closely while keeping signal paths short. A spring tab releases the terminal from the rail, and keyed connectors help prevent reverse insertion.

Specifications

"0" Signal Voltage:	-3 to +5 V (EN 61131-2, type 1/3)	"1" Signal Voltage:	11 to 30 V (EN 61131-2, type 3)	Breaking Energy:	< 150 mJ/channel
Connection Technology:	Flat-ribbon cable	Connector Standard:	IEC 60603-13	Connector Type:	2 x 10-pin male
Digital Inputs:	8	Digital Outputs:	8	E-bus Current:	100 mA typ.
Input Current:	3 mA typ.	Input Filter:	3 ms typ.	Load Type:	Ohmic, inductive, lamp load
Max Output Current:	0.5 A/channel	Max. Output Current:	0.5 A per channel	Mounting Rail:	35 mm
Nominal Input Voltage:	24 VDC	Nominal Voltage:	24 V DC (-15%/+20%)	Number Of Channels:	8 inputs + 8 outputs
Process Image Width:	8 input, 8 output bits	Protection Class:	IP20	Rated Current:	Max. 1 A per connection pin
Reverse Voltage Protection:	Yes	Specification:	EN 61131-2, type 1/3	Turn-off Time:	300 µs typ.
Turn-on Time:	60 µs typ.	Last Verified:	10/24/2026 5:42 AM		

Contact Us

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