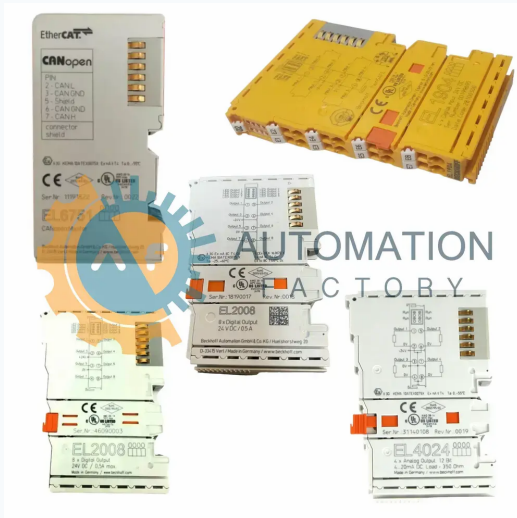




Beckhoff — EL EtherCAT Terminals

EL1862



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Beckhoff manufactures the **EL1862** within its EL EtherCAT Terminals series. The device is a 16-channel digital input terminal that converts 24 V field signals into the EtherCAT process image for PLCs and motion controllers. It snaps onto the same rail as adjacent terminals and shares power and data through the internal E-bus. Industrial systems use the unit to collect switch, sensor, and interlock states while maintaining the slim footprint associated with Beckhoff I/O modules.

The terminal operates from a nominal field voltage of **24 VDC**, and its low input current helps limit heat generation when every channel is active. All channels are mapped as 16 input bits, allowing the controller to read a contiguous word without additional parsing. Status is displayed through **16 diagnostic LEDs** on the top of the housing, providing direct visual confirmation of individual input states. Communication with upstream modules draws **100 mA typical** from the E-bus, while the sensing circuitry draws **3 mA typical per input**. An integrated input filter with a delay of **3 ms typical** reduces false transitions caused by mechanical contact bounce without requiring external filtering components. The terminal supply current is typically 4 mA, which also helps control thermal loading in densely arranged EtherCAT stations.

The enclosure has an **IP20 protection rating**, so the terminal is intended for installation inside a suitable control cabinet rather than on exposed machinery. Field wiring enters through a flat-ribbon cable that terminates at a dual-row connector built according to the **IEC 60603-13 standard**. The mating header provides a **35 mm rail-mounted interface** that supports installation alongside other terminal slices. The channel electronics comply with

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the electrical limits of **EN 61131-2 Type 1/3**, allowing compatible field sensors to connect without external resistors. Its variable mounting orientation gives panel designers flexibility when arranging the terminal around cable ducts, power contacts, and nearby I/O components. The contiguous process-data layout also allows all channel states to be transferred efficiently through the EtherCAT network during cyclic control updates.

Specifications

"0" Signal Voltage:	-3...+5 V (EN 61131-2, type 1/3)	"1" Signal Voltage:	11...30 V (EN 61131-2, type 3)	24 V Supply Current:	4 mA typ.
Approvals/markings:	CE, CCC, UL, ATEX, IECEx	Bit Width In Process Image:	16 inputs	Connection Technology:	Flat-ribbon cable
Connection Type:	Flat-ribbon cable	Connector Format:	2 x 10-pin male	Connector Standard:	IEC 60603-13
Dimensions (W x H x D):	12 mm x 100 mm x 73 mm	E-bus Current:	100 mA typ.	Input Current:	3 mA typ.
Input Filter:	3 ms typ.	Input Specification:	EN 61131-2 Type 1/3	Installation position:	Variable
Led Count:	16	Mounting Rail:	35 mm	Nominal Input Voltage:	24 VDC
Nominal Voltage:	24 V DC (-15%/+20%)	Number Of Inputs:	16	Operating Temperature:	0...55°C
Process Image Bits:	16 input bits	Protection Class:	IP20	Rated Current:	Max. 1 A per connection pin
Specification:	EN 61131-2, type 1/3	Weight:	Approx. 60 g	Last Verified:	10/25/2026 3:23 AM

Contact Us

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