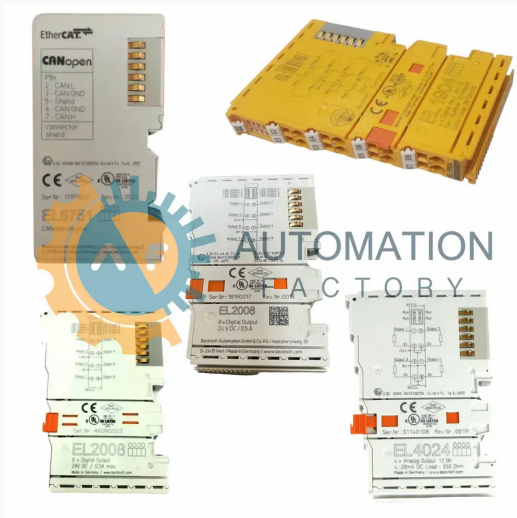




Beckhoff — EL EtherCAT Terminals

EL1872



 **In-Stock, Ships Today**

- ☒ Get a Quote in 5 minutes
- ☒ Parts ship in as little as 24 hours
- ☒ Up to half the cost of the manufacturer



Secure Online
Checkout



Free Ground
Shipping



One Year
Warranty

The **EL1872** is a 16-channel digital input terminal manufactured by Beckhoff within the EL EtherCAT Terminals series. It clips onto a standard DIN rail and converts 24 V sensor signals into EtherCAT process data so that a PLC can read each input in real time. Every channel has a dedicated LED that shows its current state, providing immediate visual feedback when signals and wiring are checked. The compact terminal is intended for machine control systems that require multiple digital sensors to be connected through a space-saving EtherCAT I/O station.

The input side operates at **24 VDC**, and each channel draws only 3 mA while the terminal takes 4 mA from the supply. Communication electronics are powered through the EtherCAT backplane, with a segment current rating of **100 mA**. The housing measures just **12 mm** across when neighboring terminals are latched together, conserving space inside the control cabinet. Sensor wires are collected on a **flat-ribbon cable** that terminates at a pair of **2 x 10-pin male headers**. This connection arrangement allows the complete group of input wires to be attached through a compact interface rather than through individual front terminals. During each cyclic bus update, the process image maps every physical input to its corresponding EtherCAT data bit.

The mounting foot locks onto a **35 mm** rail, ensuring alignment with other Beckhoff I/O terminals and maintaining an orderly installation within the cabinet. Each channel meets the switching thresholds established by **EN 61131-2 Type 1/3**, supporting compatible industrial digital sensors. A built-in hardware filter of **10 µs** suppresses brief transients so that contact bounce or electrical noise does not cause false state changes. The housing has an **IP20** protection rating, which provides protection against accidental finger contact with internal electrical parts. Because

Automation Factory sells factory new and pre-owned surplus products and maintains channels to procure supply. Automation Factory is not affiliated with nor an authorized distributor or representative of any manufacturers, brands or products listed. Designated trademarks, brand names, and brands appearing herein are the property of their respective owners.

the enclosure does not protect against water or fine contaminants, the terminal must be installed inside a suitable control panel. The dedicated status indicators remain visible from the front, allowing input conditions to be checked without disconnecting the ribbon cable or removing the terminal from the rail.

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
Bit Width In Process Image:	16 inputs	Bit width in the process image:	16 inputs	Connected Width:	12 mm
Connection Method:	Flat-Ribbon Cable	Connection Technology:	flat-ribbon cable	Connector Type:	2 x 10-Pin Male
Current Consumption On E-bus:	typ. 100 mA	E-bus Current:	100 mA	Electrical Standard:	EN 61131-2 Type 1/3
Input Current:	3 mA	Input Filter:	10 µs	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 Width:	16 Input Bits
Protection Class:	IP20	Rated Current:	max. 1 A per connection pin	Specification:	EN 61131-2, type 1/3
Storage Temperature:	-25...+85°C	Weight:	approx. 60 g	Last Verified:	10/23/2026 11:52 AM

Contact Us

 1620 Old Apex Road, Cary, NC 27513, USA

 **Toll Free:** [1-888-551-3082](tel:1-888-551-3082)

 **International:** [1-919-443-0207](tel:1-919-443-0207)

 **Fax:** [1-919-867-6204](tel:1-919-867-6204)

 **Email:** sales@wakeindustrial.com

Shipping Options



Payment Methods



Automation Factory sells factory new and pre-owned surplus products and maintains channels to procure supply. Automation Factory is not affiliated with nor an authorized distributor or representative of any manufacturers, brands or products listed. Designated trademarks, brand names, and brands appearing herein are the property of their respective owners.