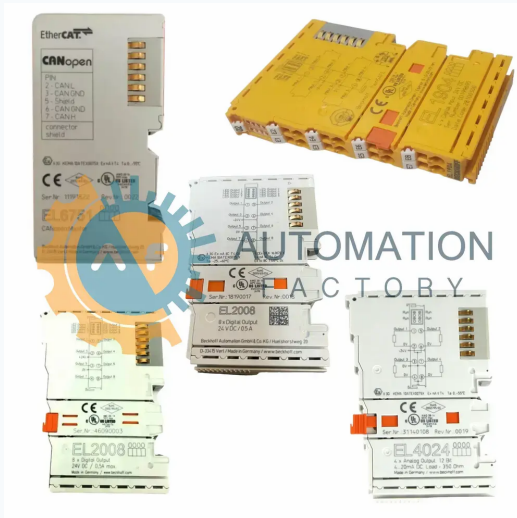




Beckhoff — EL EtherCAT Terminals

EL1814



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The **EL1814** is a digital input terminal manufactured by Beckhoff for the EL EtherCAT Terminals series. It accepts **24 V DC** control signals from sensors, limit switches, or push buttons and places their states onto the EtherCAT bus in real time. Installed alongside other EL terminals, it shares common power contacts and fieldbus wiring, giving machine builders a modular way to collect discrete inputs inside control cabinets while eliminating separate input cards in centralized PLCs.

The terminal has **four galvanically linked input channels**, allowing one slice to supervise several devices while conserving space. A hardware filter of **10 µs** removes contact bounce so that only clean edges reach the logic. Each channel meets the **EN 61131-2 Type 1/3** profile, which sets current consumption and switching thresholds for PLC compatibility. Field wiring uses a **3-wire layout**, and conductors are secured in direct plug-in push-in terminals. Logic power is drawn through the contiguous power contacts, while the 0 V reference is connected to the shared ground rail, simplifying distribution within the I/O rack.

The enclosure is only **12 mm wide**, yet 16 terminal points are available for supply, ground, and signals. With an **IP20 protection rating**, the device is intended for installation in an enclosed control panel. It snaps onto a **35 mm DIN rail**, and its orientation can be varied without affecting operation. The power contacts are connected through the terminal so that downstream modules receive the same supply. During cyclic data exchange, the module contributes **4 input bits**, giving the controller a one-to-one map of the four channels. Its narrow housing allows dense input clusters to be installed near connected sensors while keeping field wiring organized. The shared supply

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and ground connections also reduce the number of separate conductors required across the terminal assembly.

Specifications

0 Signal Voltage:	-3...+5 V	1 Signal Voltage:	11...30 V	Approvals/markings:	CE, CCC, UL, ATEX, IECEx
Connection Method:	Direct plug-in / push-in	Connection Technology:	3-wire	Current Consumption - E-bus:	typ. 90 mA
Current Consumption - Power Contacts:	typ. 2 mA + load	Electronics Supply:	Via power contacts	Housing Width:	12 mm
Input Current:	typ. 3 mA	Input Filter:	10 µs	Input Standard:	EN 61131-2 Type 1/3
Installation Position:	Variable	Mounting Rail:	35 mm	Nominal Input Voltage:	24 V DC
Nominal Voltage:	24 V DC (-15%/+20%)	Number Of Inputs:	4	Operating Temperature:	-25...+60°C
Power Contacts:	Through-connected	Process Image Width:	4 input bits	Protection Class:	IP20
Reference Ground:	0 V power contact	Specification:	EN 61131-2, type 1/3	Storage Temperature:	-40...+85°C
Terminal Points:	16	Last Verified:	10/24/2026 12:23 PM		

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



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