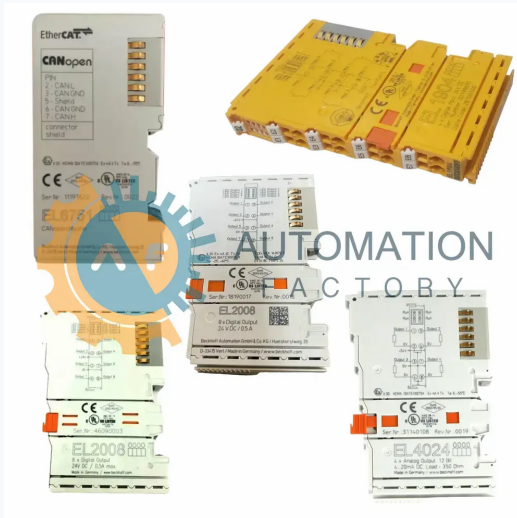


Beckhoff — EL EtherCAT Terminals

EL1014

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The **EL1014** is a digital input module manufactured by Beckhoff as part of the EL EtherCAT Terminals series. It occupies one slot on a DIN-rail coupler and translates discrete field signals into the distributed EtherCAT process image. Within an automation cell, the terminal reports the on/off status of sensors, limit switches, or pushbuttons to the controller. This arrangement provides deterministic response times without requiring standalone I/O enclosures. Signal wiring uses the **3-wire connection principle**, so the supply, reference, and sensor connections are grouped for straightforward installation. Each channel draws only **3 mA** of input current, allowing proximity sensors or optically isolated contacts to operate without overloading the upstream supply rail. A built-in input filter with a response time of **10 µs** suppresses contact bounce and noise spikes shorter than that threshold, supporting reliable edge detection in electrically noisy cabinets. The electronics use a nominal input level of **24 VDC**, which matches the control voltage commonly used in machine panels. With **4 inputs** available, one terminal can monitor several field devices while maintaining short bus update times.

During each EtherCAT cycle, the module contributes **four input bits** to the process image, allowing the controller to read every channel as an individual Boolean value without additional decoding. The housing has an **IP20** protection rating, providing protection against contact with hazardous internal parts but no protection against water. The terminal must therefore be installed inside a suitable control enclosure that protects it from moisture and excessive contamination. Operating power reaches the electronics through **power contacts**, allowing adjacent terminals to share the same supply bus and reducing external wiring. The **front-panel LEDs** display bus activity

and the state of each channel, which simplifies visual status checks and fault isolation. The compact terminal format also allows additional EtherCAT I/O modules to be installed beside the unit on the same DIN rail.

Specifications

"0" Signal Voltage:	-3...+5 V (EN 61131-2, type 3)	"1" Signal Voltage:	11...30 V (EN 61131-2, type 3)	Connection Technology:	3-wire
Current Consumption E-bus:	typ. 90 mA	Current Consumption Power Contacts:	typ. 2 mA + load	Input Current:	3 mA
Input Filter:	10 µs	Nominal Input Voltage:	24 VDC	Nominal Voltage:	24 V DC (-15%/+20%)
Number Of Inputs:	4	Operating Temperature:	-25...+60°C	Process Image:	4 Input Bits
Protection Class:	IP20	Signal voltage for logical "0":	-3 V to +5 V	Signal voltage for logical "1":	11 V to 30 V
Specification:	EN 61131-2, type 1/3	Storage Temperature:	-40...+85°C	Supply Voltage:	Via Power Contacts
Weight:	approx. 50 g	Last Verified:	10/25/2026 1:47 AM		

Contact Us

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