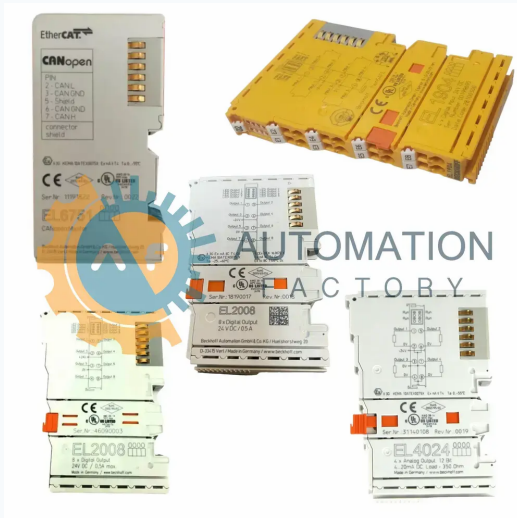




Beckhoff — EL EtherCAT Terminals

EL1804



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The **EL1804** is a digital input module produced by Beckhoff for the EL EtherCAT Terminals series. The terminal occupies a single slot in a distributed I/O station and converts discrete sensor signals into EtherCAT process data so that a PLC or IPC can react to limit switches, proximity sensors, or pushbuttons without long parallel wiring runs. Its localized control-level connections streamline signal collection in conveyor lines, packaging cells, and other automated equipment.

The terminal accepts a nominal supply of **24 VDC** through its power contact and provides **4** input channels for connecting digital sensors. A hardware debounce stage fixed at **3 ms** suppresses contact bounce before data is forwarded to the fieldbus. Compliance with the **EN 61131-2 Type 1/3** signal standard allows direct connection of PNP sensors and mechanical contacts without additional interface relays. The housing provides **16** spring-cage connection points for feed-through wiring and sensor returns, keeping conductors orderly when three-wire sensors are used. The terminal fastens to a standard **35 mm** DIN rail, supporting rapid enclosure assembly and effective EMC grounding. Four green status LEDs on the faceplate indicate channel activity and provide visual operating information. Solid, stranded, or ferruled conductors fit the clamps, while the three-wire connection technology routes sensor power, signal, and common through one terminal block.

An **IP20** protection rating makes the terminal suitable for installation in cabinets where exposure to dust, water, and tools is controlled. The housing is only **12 mm** wide, conserving rail space in densely populated I/O stations. The controller receives exactly **4 input bits** from the device in the cyclic process image, which keeps address mapping

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straightforward. The installation position is variable because no internal components depend on gravity for cooling or operation. Power contacts pass through to the neighboring terminal, allowing the 0 V reference on the power contact to continue across the station while maintaining the sensor supply connection.

Specifications

"0" Signal Voltage:	--3...+5 V (EN 61131-2, type 1/3)	"1" Signal Voltage:	11...30 V (EN 61131-2, type 3)	Conductor Types:	Solid wire, stranded wire, ferrule
Connection Technology:	3-wire	Current Consumption E-bus:	typ. 90 mA	Current Consumption Power Contacts:	typ. 2 mA + load
Housing Connection Points:	16	Input Current:	typ. 3 mA (EN 61131-2, type 3)	Input Filter:	3 ms
Input Leds:	4 green	Installation Position:	Variable	Mounting Rail:	35 mm
Nominal Input Voltage:	24 VDC	Nominal Voltage:	24 V DC (-15%/+20%)	Number Of Inputs:	4
Operating Temperature:	-25...+60°C	Power Contacts:	Connected through	Process Image Width:	4 input bits
Protection Class:	IP20	Reference Ground:	0 V power contact	Signal Standard:	EN 61131-2 Type 1/3
Specification:	EN 61131-2, type 1/3	Storage Temperature:	-40...+85°C	Terminal Block Width:	12 mm
Weight:	approx. 60 g	Last Verified:	10/25/2026 12:10 AM		

Contact Us

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