Beckhoff — ER EtherCAT Box Modules

ER1018-0001



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The **ER1018-0001** is an eight-channel digital input unit from Beckhoff's ER EtherCAT Box Modules series. As a sealed I/O module, it forwards sensor signals to the EtherCAT network directly at the machine, reducing control cabinet wiring. Beckhoff houses the electronics and connectors in a compact die-cast zinc body, allowing the module to perform decentralized tasks such as monitoring limit switches, proximity sensors, or light curtains.

The module accepts a control supply of **24 VDC (-15%/+20%)**, which feeds its input circuitry through internally bridged 24 V and 0 V lines. The control supply can carry up to **4 A**, matching the peripheral power budget that shares the same voltage rail. Data exchange is handled over **EtherCAT**, and the fieldbus connects through **2 × M8** four-pin sockets. The threaded collars must be tightened to **0.4 Nm** to prevent vibration from loosening the connections. During operation, the electronics remain within a temperature range of **-25 to +60 °C**, allowing installation on moving tooling, conveyors, or outdoor equipment. The die-cast housing shields the bus electronics from electromagnetic noise, while two M3 screws secure the body to the machine frame.

The module measures **30 × 126 × 26.5 mm**, allowing it to fit beside other IP67 I/O nodes on cable carriers or directly on tooling. With a mass of only **165 g**, it adds little load to articulated arms, and its variable installation position allows the sockets to face upward, sideways, or downward without compromising the enclosure seal. The device tolerates storage and transport temperatures from **-40 to +85 °C**, so it can remain in unconditioned storage areas before installation. Its compact enclosure also provides a rigid mounting surface where installation space is limited. The metal body maintains a continuous ground reference through the mounting points when it is properly

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secured to the machine frame.

Specifications

Approvals/markings:	CE, UL	**Bus Interface:**	2 x M8 socket, 4-pin, a-coded, shielded	**Control Current Max.:**	4 A
Control Voltage:	24 VDC (-15%/+20%)	**Dimensions (w X H X D):**	30 x 126 x 26.5 mm	**Fieldbus:**	EtherCAT
Fieldbus Connection:	2x M8 Socket, 4-Pin, Green	**Housing Material:**	Die-Cast Zinc	**Input Connections:**	M8 x 1, 3-pin, a-coded
Input Current:	typ. 3 mA (EN 61131-2, type 3)	**Input Filter:**	10 µs	**Installation Position:**	Variable
M8 Torque:	0.4 Nm	**Mounting:**	Two M3 Screws	**Nominal Input Voltage:**	24 V DC (-15%/+20%)
Number Of Inputs:	8	**Operating Temperature:**	-25 to +60 °C	**Peripheral Current Max.:**	4 A
Peripheral Voltage:	24 VDC (-15%/+20%)	**Protection Rating:**	IP65/66/67 (EN 60529)/Variable	**Protocol:**	EtherCAT
Signal Voltage (0):	-3...+5 V (EN 61131-2, type 3)	**Signal Voltage (1):**	11...30 V (EN 61131-2, type 3)	**Specification:**	EN 61131-2, type 1/3
Storage Temperature:	-40 to +85 °C	**Typical Weight:**	165 g	**Last Verified:**	11/09/2026 4:27 AM

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