

Beckhoff — IE Extension Box Units

IE2310



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The **IE2310** is a compact digital I/O extension box manufactured by Beckhoff within the IE Extension Box Units series. It mounts directly on machinery or cable trays in any orientation, adding decentralized sensor and actuator points to a fieldbus network while maintaining galvanic separation between the control electronics and connected devices. A single M8 feed connector supplies 24 V DC power and bus signals, while a matching downstream M8 connector passes both to the next module, enabling daisy-chain layouts that minimize cable runs in industrial installations.

This unit provides **4** input channels and **4** output channels to the controller, with each channel connected through an 8 mm snap-on terminal that speeds field wiring. All circuitry operates from a bus-coupled supply of **24 V DC**, so no local voltage conversion is required. The input stages conform to **EN 61131-2 Type 2**, allowing PNP sensors to be connected directly while internal current limiting protects the electronics. A built-in digital filter with a response time of **0.2 ms** suppresses contact bounce and high-frequency noise before data enters the process image. The straightforward channel arrangement supports deterministic scanning on busy industrial networks.

Each output can source up to **0.5 A** and includes short-circuit monitoring. If the load current rises above the internal trip point of **1.5 A**, the affected channel shuts down to prevent damage. Steady-state consumption on the supply rail remains low because the outputs draw only **20 mA per channel** when idle, permitting multiple nodes on a single power segment. Controller communication uses a process image containing **four input bits and four output bits**, which maps directly into PLC memory and eliminates conversion overhead. The fieldbus and control

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sections remain electrically isolated, helping prevent ground loops and maintain reliable operation in environments with substantial electrical noise.

Specifications

Downstream Connector:	1 x M8, 4-pin	Enclosure Rating:	IP65	Feed Connector:	1 x M8, 4-pin
Fieldbus/control Isolation:	Yes	Hysteresis:	±0.5% F.S. or less	I/o Connection:	8 mm snap-on
Input Count:	4	Input Current:	6 mA	Input Filter:	0.2 ms
Input Signal:	4 to 20 mA	Input Type:	EN61131-2 Type 2	Installation Position:	Variable
Linearity:	±0.5% F.S. or less	Load Current Consumption:	20 mA per channel	Mounting:	DIN rail or direct mounting
Output Count:	4	Output Current:	0.5 A	Power Supply Voltage:	24V DC
Pressure Range:	0.005~0.85 MPa	Process Image:	4 input bits, 4 output bits	Rated Load Voltage:	24 VDC
Repeatability:	±0.3% F.S. or less	Response Time:	0.5 sec or less (0->100%)	Sensor Supply:	0.5 A per channel
Short Circuit Current:	1.5 A	Type:	Electro-Pneumatic Regulator	Weight:	Approx. 650g
Last Verified:	10/23/2026 11:17 AM				

Contact Us

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Shipping Options



Payment Methods



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