



Beckhoff — IE Extension Box Units

IE2022-0000



In-Stock, Ships Today

- ✓ Get a Quote in 5 minutes
- ✓ Parts ship in as little as 24 hours
- ✓ Up to half the cost of the manufacturer



Secure Online
Checkout



Free Ground
Shipping



One Year
Warranty

The **IE2022-0000** extension box is produced by Beckhoff for the IE Extension Box Units series. It serves as a decentralized output module that places switching power next to actuators, reducing control cabinet wiring in industrial automation cells. The enclosure accepts 24 V field power and relays it to connected loads under EtherCAT supervision when combined with a suitable master. Because the enclosure is IP-rated for machine-side installation, it can be fastened to steel framing, conveyors, or tooling wherever compact digital outputs are required. This arrangement allows solenoids, lamps, and contactors to be driven without long home-run cables.

The unit operates from a nominal supply of **24 VDC**. It provides **8 digital outputs**, each rated at **2.0 A per channel**, and the total load must not exceed **4 A**. Within the controller's memory map, it occupies a single **8-bit output image**, ensuring byte-aligned access. Electrical terminations use an M12 screw-in connector that seals against oil and dust on the shop floor. There is no channel or interchannel isolation, so all outputs share a common reference, while the control and fieldbus circuits remain galvanically separated. A short-circuit threshold of 4.0 A disables a faulted path to protect upstream conductors. Control and fieldbus isolation helps maintain communication integrity during load transients. The variable installation position allows the housing to be mounted flat or on its edge without derating.

Each output stage draws **30 mA per channel** for its internal electronics, and the auxiliary sensor rail can supply up to **0.5 A per channel** for proximity switches or encoders. Downstream expansion is supported by **one 4-pin M8 socket**, while upstream field power enters through **one 4-pin M8 connector**. These feeder and daisy-chain

connections allow additional IE boxes to be cascaded along the machine. The compact connections also help route field power through confined areas where larger connector assemblies would interfere with nearby equipment. Connected devices share the available supply limits, so the combined load must remain within the permitted current for the module and its individual channels.

Specifications

Auxiliary Power Current:	30 mA per channel	Channel Isolation:	No	Control/fieldbus Isolation:	Yes
Current Consumption:	30 mA per channel	Current Consumption (Us):	25 mA	Downstream Connection:	1×M8 female, 4-pin, A-coded
Downstream Port:	1 x M8 socket, 4-pin	Feed Connection:	1×M8 male, 4-pin, A-coded	Installation Position:	Variable
Interchannel Isolation:	No	Load Types:	Ohmic, inductive, lamp	Max. Output Current per Channel:	2 A
Nominal Output Voltage:	24 V DC (-15%/+20%)	Nominal Voltage:	24 VDC	Number of Outputs:	8
Operating Temperature:	0...55°C	Output Connection:	M12 screw-in	Output Connections:	M12, screw type
Output Current:	2.0 A per channel	Power Feed:	1 x M8 connector, 4-pin	Process Image:	8 bits output
Protection Rating:	IP65/IP66/IP67	Sensor Supply Current:	0.5 A per channel	Shock Resistance:	EN 60068-2-27
Short Circuit Current:	4.0 A	Short-Circuit Proof:	Individually short-circuit proof	Storage Temperature:	-25...+85°C
Total Max. Output Current:	4 A	Total Output Current:	4 A	Vibration Resistance:	EN 60068-2-6
Last Verified:	10/23/2026 3:12 AM				

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



Automation Factory sells factory new and pre-owned surplus products and maintains channels to procure supply. Automation Factory is not affiliated with nor an authorized distributor or representative of any manufacturers, brands or products listed. Designated trademarks, brand names, and brands appearing herein are the property of their respective owners.