

Beckhoff — EPP EtherCAT P Box Modules

EPP2308-0002



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The **EPP2308-0002** is an eight-channel digital output module produced by Beckhoff within the EPP EtherCAT P Box Modules series. Functionally, it extends field devices with switched 24 V lines that can be placed directly on machinery while remaining on the same real-time network as the controller. By combining communication and power on one hybrid trunk, the unit simplifies distributed automation layouts and minimizes cabinet wiring.

The module exchanges cyclic data over **EtherCAT P**, so a single cable delivers both logic power and protocol traffic. Its supply and signal connector uses a **4-pin** layout that matches the EtherCAT P standard. Output stages are connected to a common **24 V DC** source, and each channel can supply up to **0.5 A** to actuators, indicators, or pilot relays. Internally, state information is packed into a compact **8-bit** process image, allowing deterministic updates during every communication cycle. The output transistors use a **positive-switching** topology, so the load side is energized when the control bit is high. Distributed clock support keeps update skew in the nanosecond range, which supports synchronized motion or coordinated lighting patterns. The outputs accept resistive, inductive, and lamp loads without derating, and built-in freewheeling paths protect against inductive voltage spikes.

Eight discrete lines are presented on the front face, providing **8 outputs** that can be wired with industry-standard **M8** sockets. Each channel is monitored individually. If a fault causes excessive current, the driver switches off almost instantly because of the module's **short-circuit-proof** design. Status bits notify the PLC so that the control system can respond without manual inspection. The module's diagnostic functions allow the controller to identify affected channels while the remaining outputs continue to exchange process data.

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Specifications

Bus Interface:	EtherCAT P	Connector Pins:	4	Cooling:	Forced air (internal fan)
Dimensions:	78 x 40 x 335 mm	Distributed Clocks:	Yes	Efficiency:	94% typical at 50% load
Form Factor:	1U Rackmount	I/o Connection:	M8	Input Current:	13A (for 100V), 6.5A (for 240V)
Input Frequency:	50-60Hz	Input Voltage Range:	100-240V AC	Load Type:	Ohmic, Inductive, Lamp
Nominal Output Voltage:	24 V DC	Number Of Outputs:	8	Operating Temperature:	0°C to 50°C
Output Current:	183A	Output Current/channel:	0.5 A	Output Power:	2200W
Output Voltage:	12V DC	Process Data Bits:	8	Safety Approvals:	UL, CE, CB
Short-circuit Proof:	Yes	Storage Temperature:	-40°C to 70°C	Switching Type:	Positive-Switching
Last Verified:	10/24/2026 9:47 AM				

Contact Us

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