

Beckhoff — EPP EtherCAT P Box Modules

EPP1816-0008



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The **EPP1816-0008** is an I/O box module from Beckhoff that belongs to the EPP EtherCAT P Box Modules series. It mounts directly on machines to gather field-level signals and transmit them over EtherCAT P. Data and power share a single cable, reducing the amount of wiring required for decentralized control architectures in industrial automation. The machine-mounted design also places signal collection close to sensors and other field devices, limiting the need to route individual connections back to a central control cabinet.

This unit provides **16 sink/source channels** that comply with Type 3 input requirements. Signals are evaluated through a **10 µs input filter** that suppresses contact bounce and helps prevent brief disturbances from being interpreted as valid state changes. Logic circuits receive a **24 VDC control voltage**, while actuators connected through the feed-through use the same 24 VDC peripheral rail. Fieldbus pass-through uses **two M8, 4-pin, P-coded sockets**, enabling an in-line topology without additional splitters. The unit supports a **combined control current of 3 A** for power forwarded to downstream devices. Its compact dimensions of **30 × 126 × 26.5 mm** allow installation in narrow cable trays and crowded machine areas. Hardware-assisted distributed clocks keep timestamp errors below one microsecond, supporting synchronized signal acquisition across a large EtherCAT P network.

The electronics have a **module current draw of 100 mA** from the upstream feed, leaving available capacity for connected field equipment. The integrated supply provides a **total sensor current of 0.5 A**, allowing proximity switches and optical sensors to operate without separate power lines. The molded housing carries an

IP65/IP66/IP67 ingress protection rating, blocking dust and resisting washdown water or outdoor spray. This protection supports installation near material-handling equipment and other process areas where a separate cabinet may be impractical. Consistent 24 V wiring simplifies power distribution between the module, its sensors, and downstream EtherCAT P devices without requiring different supply levels at the node.

Specifications

Control Sum Current:	3 A	Control Voltage:	24 VDC	Digital Inputs:	16
Dimensions:	30 x 126 x 26.5 mm	Distributed Clocks:	Yes	Ethercat Connection:	2 x M8 socket, 4-pin, P-coded
For Use With:	SNA Series Terminal Blocks	Height:	61 mm	Input Current:	6 mA at 24 VDC
Input Filter:	10 µs	Input Type:	Type 3 to EN 61131-2	Length:	65.6 mm
Material:	Polyamide (PA66), Flame Retardant	Module Current Draw:	100 mA	Mounting Type:	Snap-On
Operating Temperature Range:	-50°C to +120°C	Peripheral Voltage:	24 VDC	Product Weight:	0.5 g
Protection Class:	IP65, IP66, IP67	Rohs Compliance:	Yes	Sensor Supply Current:	0.5 A total
Sensor Supply Voltage:	24 VDC	Signal Connection:	D-sub socket, 25-pin, UNC4-40	Weight:	165 g
Width:	1 mm	Last Verified:	10/24/2026 5:41 AM		

Contact Us

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