



Beckhoff — IE Extension Box Units

IE2808-0001



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The **IE2808-0001** extension box is produced by Beckhoff within the IE Extension Box Units series. Designed for factory lines where discrete sensors and actuators must be clustered away from the main cabinet, the module expands an IP-Link fieldbus segment with additional digital outputs and returns status data to the controller. Locating power switching close to the machine reduces cable runs and simplifies decentralized automation layouts. Power distribution is based on a rated load voltage of **24 VDC**, supplied through one 4-pole M8 male feed connector that also carries the IP-Link communication lines. Each of the eight protected output channels can deliver **0.5 A**, while the entire unit is limited to **4 A**. If a load is short-circuited, an electronic limiter restricts the current to **1.5 A** until the fault is cleared. The internal logic draws only **5 mA per channel**, allowing most of the available current to reach the connected field devices. Reverse-polarity protection helps prevent damage caused by incorrect supply wiring. The error reset mode can be configured for manual or automatic operation according to the needs of the control system.

The mechanical interface uses a **UNC thread pattern**, so standard North American mounting hardware can secure the housing in any orientation. Its variable installation position allows the module to fit within confined machine frames. A **single 4-pole M8 female downstream connector** continues power and IP-Link communication to the next device in the fieldbus segment. The process image allocates **16 output bits and 16 input bits** for command and status data exchanged with the controller. The physical output lines leave the module through a **25-pin D-Sub socket**, supporting organized connections through a shielded multicore cable. An optional control and status byte

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provides additional diagnostic information, while built-in isolation on the IP-Link fieldbus helps protect the controller when the outputs switch resistive, inductive, or lamp loads.

Specifications

Connection Type:	M12 Connector	Connector Thread:	UNC	Control/status Byte:	Optional
Downstream Connector:	1 x M8 Female, 4-Pole	Error Reset Mode:	Manual Or Automatic	Fieldbus Isolation:	Yes Via IP-Link
Housing Material:	Stainless Steel	Installation Position:	Variable	Load Type:	Resistive, Inductive, Lamp
Load Voltage Consumption:	5 mA/Channel	Max Output Current:	200 mA	Mounting Type:	Flush
Number of Outputs:	16	Operating Temperature:	-25 °C to +70 °C	Output Connection:	D-Sub Socket, 25-Pin
Output Current Per Channel:	0.5 A	Output Function:	Normally Open (NO)	Output Type:	PNP
Polarity Reversal Protection:	Yes	Process Image Bits:	16 Output, 16 Input	Protection Class:	IP67
Rated Load Voltage:	24 VDC	Reverse Polarity Protection:	Yes	Sensing Distance:	8 mm
Short-circuit Current:	1.5 A	Short-circuit Protection:	Yes	Supply Feed Connector:	1 x M8 Male, 4-Pole
Supply Voltage:	10-30 V DC	Switching Frequency:	500 Hz	Total Output Current:	4 A
Type:	Inductive Proximity Sensor	Last Verified:	10/23/2026 12:33 PM		

Contact Us

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