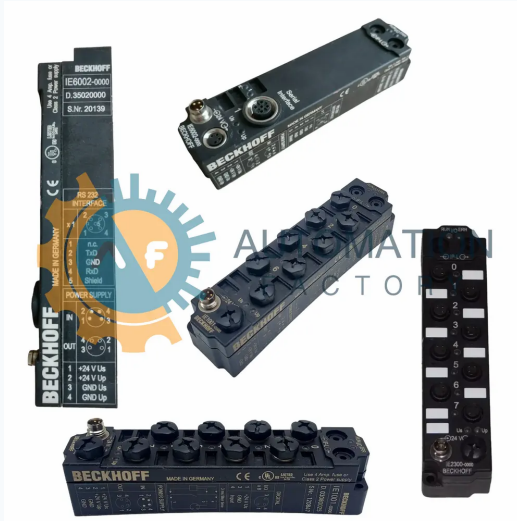




Beckhoff — IE Extension Box Units

IE2042

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The **IE2042** is a digital output extension box produced by Beckhoff for the IE Extension Box Units series. The device offers eight switching channels that distribute field power directly on the machine, removing the need for cabinet-mounted terminal blocks in compact automation cells. By housing solid-state drivers and M12 signal connectors in a sealed enclosure, the unit supplies remote actuators while leaving logic processing to the central controller. This arrangement supports decentralized installation near valves, contactors, indicator lamps, and other electrically controlled field devices.

Each channel operates from a nominal supply of **24 VDC**, and the module provides **8 outputs** in the process image as eight output bits for cyclic access. The output stages deliver up to **2.0 A per channel**, while the internal power distribution supports a combined maximum of **12 A** across all outputs. The outputs are organized into three load groups, with a collective limit of **4 A** per group to prevent localized trace overheating. Typical current consumption is 50 mA per channel, and the drivers can energize resistive, inductive, or lamp loads without derating. Short-circuit current is limited to a typical value of 4.0 A, while reverse-polarity diodes protect the electronics if the supply leads are accidentally reversed.

The wiring system uses screw-in M12 sockets for signal routing and two four-pin M8 connectors for the power feed, supporting direct field installation without separate terminal blocks. The module provides **control/fieldbus isolation**, and each output is **individually short-circuit-proof** so unaffected channels can continue operating after a channel fault. A dedicated sensor supply delivers up to **0.5 A per channel**, and the same limit applies to

auxiliary devices connected to that rail. An **LED signal-state indication** provides visual feedback for each channel. Because the module switches only digital outputs, active and inactive channel states remain easy to identify during system checks.

Specifications

Cable Length:	Not specified (M12 connector present)	Connection Type:	M12 Connector	Control/fieldbus Isolation:	Yes
Downstream Connection:	None	Housing Material:	Stainless Steel	Load Circuit Count:	3
Load Circuits:	3	Load Current Consumption:	50 mA/Channel Typical	Load Group Limit:	4 A
Load Type:	Ohmic, Inductive, Lamp Load	Load Types:	Ohmic, Inductive, Lamp Load	Max Output Current:	2.0 A/Channel
Max Total Current:	12 A	Mounting Type:	Flush	Nominal Voltage:	24 VDC
Number Of Outputs:	8	Operating Temperature:	-25°C to +70°C	Output Connection:	M12 Screw-In
Output Current:	2.0 A Per Channel	Output Protection:	Individually Short-Circuit Proof	Output Type:	Digital Output
Power Feed:	2 x M8 Connector, 4-Pin	Process Image:	8 Output Bits	Protection Class:	IP67
Reverse Polarity Protection:	Yes	Reverse Voltage Protection:	Yes	Sensing Distance:	4 mm
Sensor Supply:	0.5 A/Channel Max	Sensor Supply Limit:	0.5 A Per Channel	Short Circuit Protection:	Yes
Short-circuit Current:	4.0 A Typical	Signal Connection:	Screw-In M12 Connectors	Signal State Indication:	LED
Supply Voltage:	10...30 V DC	Switching Element Function:	Normally Open (NO)	Switching Frequency:	2 kHz
Total Output Current:	12 A	Type:	Inductive Proximity Sensor	Last Verified:	10/23/2026 4:12 AM

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