



Beckhoff — IE Extension Box Units

IE1011-0000



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The **IE1011-0000** extension box is produced by Beckhoff as part of the IE Extension Box Units series. Serving as a digital input block for industrial automation systems, it routes discrete sensor signals directly into decentralized control networks. The module functions as a digital input device, allowing a controller to monitor on-machine limit switches, optical sensors, or push buttons while keeping the wiring localized at the equipment. Its sealed construction and IP-rated metal housing permit installation in any orientation, so it can be fastened to a frame, placed inside a drag chain, or mounted beside actuators without an additional enclosure.

Each channel operates at a nominal logic level of **24 VDC** and draws only **6 mA**, minimizing the load on proximity switches. A hardware debounce stage with a **0.2 ms** filter suppresses mechanical contact chatter before the signal reaches the process image. Compliance with **EN 61131-2 Type 2** allows the inputs to accept sourcing or sinking field devices within the specified current window. Internal **control and fieldbus isolation** separates the 24-volt sensor domain from the bus transceiver, protecting the upstream controller from electrical noise or wiring faults. Sensor power is derived from the US control-voltage rail. Channel states are transmitted to the controller for use in machine sequences, status monitoring, and fault detection.

Signal wiring is handled through **8 inputs** connected to M8 screw-in sockets. A dedicated downstream **M8 socket** carries the field I/O extension to the next device, while a second four-pin M8 connector delivers the power feed and supports daisy-chaining along the machine. The module provides a sensor supply of **0.5 A per channel**, so most inductive or capacitive sensors can be powered directly from the box. Data is presented to the controller as an **8-bit**

input image, keeping software addressing simple. Flexible positioning allows cable strain relief and connector accessibility to be arranged for the available machine space.

Specifications

Control/fieldbus Isolation:	Yes	Current consumption (without sensor current):	25 mA	Downstream Connector:	1 x M8 Socket, 4-Pin
Input connections:	M8, screw type	Input Count:	8	Input Current:	6 mA
Input current (typ.):	6 mA (EN 61131-2, type 2)	Input filter:	0.2 ms	Input Standard:	EN 61131-2 Type 2
Installation Position:	Variable	Module Function:	Digital Input	Nominal input voltage:	24 VDC
Number of inputs:	8	Operating temperature:	0...55°C	Power Feed Connector:	1 x M8 Connector, 4-Pin
Power supply connection (downstream):	1 x M8 female socket, 4-pin, a-coded	Power supply connection (feed):	1 x M8 male socket, 4-pin, a-coded	Process Image Width:	8 Bits Input
Protection rating:	IP65/66/67 (EN 60529)	Sensor supply:	0.5 A Per Channel	Sensor Supply Source:	Control Voltage US
Signal Connection:	M8 Screw-In	Signal voltage '0' level:	-3...+5 V (EN 61131-2, type 2)	Signal voltage '1' level:	11...30 V (EN 61131-2, type 2)
Storage temperature:	-25...+85°C	Last Verified:	10/24/2026 6:42 AM		

Contact Us

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