

Beckhoff — IL Coupler Box Units

IL2300-B510-0000 **In-Stock, Ships Today**

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The **IL2300-B510-0000** is a coupler box unit manufactured by Beckhoff for the IL Coupler Box Units series. It serves as a decentralized I/O station that links machine-mounted sensors and actuators to a higher-level controller through the CANopen fieldbus. By concentrating discrete signal wiring in a molded polyamide housing, the coupler reduces cabinet load and supports fast installation directly on conveyor frames, robots, or tooling fixtures in industrial automation lines.

Communication is handled by the **CANopen** fieldbus protocol, while local expansion is provided through the **IP-Link** interface so that additional I/O modules can be attached without extra gateways. The device provides **4 digital inputs** for sensor feedback and **4 digital outputs** for actuator control, each wired through 8 mm snap-on connectors that minimize assembly time. The enclosure has an **IP65/IP66/IP67** protection class, and the electronics are further encapsulated in polyurethane potting compound to block moisture. Mechanical fastening is achieved with two M3 mounting holes molded into the body. Internal metal parts are made of nickel-plated brass, and the spring contacts use gold-plated CuZn to maintain low contact resistance. The PA6 polyamide housing provides impact strength and chemical resistance for typical factory conditions.

The rectangular enclosure stands **175 mm** high, measures **30 mm** wide, and is only **26.5 mm** deep, allowing installation in narrow machine channels. Up to **120** extension boxes can be chained behind the coupler through the IP-Link connection, supporting large distributed systems without requiring network segmentation. The unit does not provide programmability, so all logic execution remains in the central PLC, which treats the coupler as a remote I/O

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node. Its compact shape allows the signal connections to be positioned close to sensors and actuators, helping reduce long individual cable runs. Nickel-plated brass hardware, durable contacts, and polyurethane potting help preserve electrical integrity under vibration and during washdown cleaning cycles.

Specifications

Cable Entry:	M20 x 1.5	Contact Material:	CuZn, gold-plated	Depth:	26.5 mm
Digital Inputs:	4	Digital Outputs:	4	Display:	No Display
Enclosure Material:	Stainless Steel	Extension Interface:	IP-Link	Fieldbus Protocol:	CANopen
Fixing Holes:	2 x M3	Height:	175 mm	Housing Material:	PA6 (polyamide)
I/o Connection:	8 mm snap-on	Ip Rating:	IP67	Max Extension Boxes:	120
Measurement Range:	2300 mm	Metal Parts:	Brass, nickel-plated	Operating Voltage:	24 V DC
Output Signal:	4-20 mA	Output Type:	Analog	Potting Material:	Polyurethane
Process Temperature Range:	-20°C to +100°C	Programmability:	No	Protection Class:	IP65/IP66/IP67
Response Time:	< 100 ms	Width:	30 mm	Last Verified:	10/23/2026 11:56 PM

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