

Beckhoff — IL Coupler Box Units

IL2302-B520-0000 **In-Stock, Ships Today**

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The **IL2302-B520-0000** is a coupler box unit produced by Beckhoff within the IL Coupler Box Units series. It serves as an interface that lets distributed sensors and actuators exchange process data with a higher-level controller through a single fieldbus trunk, reducing cabinet wiring and allowing on-machine installation in industrial automation environments. A galvanic barrier provides control-to-fieldbus isolation, preventing ground loops between upstream PLC electronics and connected devices.

The module operates from a control supply of **24 VDC**, and the internal electronics draw a maximum of **0.5 A**, so power budgeting in the field must accommodate that load. For cyclic communication, it handles **512 B input / 512 B output** of process data, providing ample space for status bits and analog values during each scan. Incoming power is routed through a top-mounted **M8 4-pin plug**, while daisy-chain distribution continues through a matching **M8 4-pin socket** on the opposite face, simplifying the series wiring of multiple boxes along the machine frame.

The electronic core is encapsulated in **polyurethane** for vibration damping and moisture protection, and the outer housing is molded from **PA6**, a glass-fiber-reinforced polyamide that resists oils and cutting fluids. The enclosure has an **IP65/66/67** rating, so the box tolerates dust, low-pressure washdown, and temporary immersion. Two threaded mounting bosses accept **2 x M3 fasteners**, allowing the unit to be secured to panels or extruded profiles in any permitted orientation. Signal pins are made from brass with a gold-plated CuZn finish, providing durable electrical contact at each connection point. Other exposed metal parts are made from nickel-plated brass to limit corrosion in wet areas and support installation near equipment exposed to moisture or process fluids.

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Specifications

"0" Signal Voltage:	-3...+5 V	"1" Signal Voltage:	11...30 V, 6 mA input current (EN 61131-2, type 2)	Approvals/markings:	CE, UL
Casting Compound:	Polyurethane	Contact Finish:	CuZn, Gold-Plated	Control Voltage:	24 VDC
Control Voltage Current:	0.5 A Max	Control/fieldbus Isolation:	Yes	Fieldbus Data Size:	512 B In / 512 B Out
Housing Material:	PA6	Input Filter:	3.0 ms	Input/output Connections:	M12, screw type
Installation Position:	Any	Max. Output Current:	0.5 A per channel, individually short-circuit proof	Metal Parts:	Brass, Nickel-Plated
Mounting Holes:	2 x M3	Number Of Channels:	4 inputs + 4 outputs	Operating Temperature:	0...55°C
Power Feed Connector:	M8 Plug, 4-Pin	Power Out Connector:	M8 Socket, 4-Pin	Protection Class:	IP65/66/67
Protective Rating:	IP65/66/67 (conforms to EN 60529)	Rated Load Voltage:	24 V DC (-15%/+20%)	Sensor Supply:	From control voltage, max. 0.5 A, short-circuit proof in total
Short-circuit Current:	Typ. 1.5 A	Specification:	EN 61131-2, type 2	Storage Temperature:	-25...+85°C
Vibration/shock Resistance:	Conforms to EN 60068-2-6/EN 60068-2-27	Last Verified:	10/24/2026 7:05 AM		

Contact Us

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Shipping Options



Payment Methods



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