

Beckhoff — IL Coupler Box Units

IL2302-C900-0000 **In-Stock, Ships Today**

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The **IL2302-C900-0000** is an I/O coupler produced by Beckhoff for the IL Coupler Box Units series. It allows decentralized sensors and actuators to be wired in the field and connected to the primary controller through an Ethernet backbone. By combining four inputs and four outputs in a sealed enclosure, the unit streamlines signal collection and distribution in industrial automation cells that rely on real-time data exchange.

Communication with the higher-level network occurs through an **RJ45** port that carries standard Ethernet frames. Internally, a **16-bit** processor handles preprocessing and cyclic data exchange. The module provides **4 digital inputs** for sensors and **4 digital outputs** for actuators; this fixed ratio is suitable for small tooling stations or pick-and-place nests. Process data move over **Ethernet TCP/IP**, so the unit can connect to existing switches and routers without proprietary protocol converters. A polyurethane casting compound surrounds the electronics to resist vibration, while the PA6 polyamide housing adds mechanical strength. Field devices attach through M12 bolted connectors, and 2 × M3 mounting holes secure the box to machine frames. A 512-byte nonvolatile memory section stores configuration data, allowing the device to resume operation after a power loss without an external backup.

The enclosure has a depth of **26.5 mm**, a width of 30 mm, and a height of 175 mm, allowing installation in tight cable channels. The enclosure meets the **IP65/66/67** rating, protecting the bus and I/O circuitry against dust, water jets, and temporary immersion. Up to **120** extension modules can be added to the downstream EtherCAT segment, so a single coupler can serve large conveyor lines. Application code conforms to the **IEC 61131-3** standard, enabling the reuse of PLC function blocks across different projects and compatible control platforms.

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Specifications

Approvals/markings:	CE, UL	Bus Connection:	RJ45	Bus Interface:	1 x RJ45 socket
Casting Compound:	Polyurethane	Controller Architecture:	16-bit	Data Transfer Rates:	10/100 Mbaud
Depth:	26.5 mm	Digital Inputs:	4	Digital Outputs:	4
Emc Immunity/emission:	Conforms to EN 61000-6-2/4	Fieldbus Type:	Ethernet TCP/IP	Height:	175 mm
Housing Dimensions:	30 mm x 210 mm x 26.5 mm	Housing Material:	PA6 (polyamide)	Input Filter Time:	3 ms
Input Signal Voltage (high):	11 to 30 V	Max Extension Modules:	120	Max. Output Current:	0.5 A per channel
Mounting Holes:	2 x M3	Nonvolatile Memory:	512 bytes	Number Of Channels:	4 digital inputs + 4 digital outputs
Operating Temperature:	0°C to +55°C	Power Supply:	24 V DC (control voltage), Load voltage as per I/O type	Programming Standard:	IEC 61131-3
Protection Class:	IP65/66/67	Protective Rating:	IP65/66/67	Protocol:	TwinCAT ADS, Modbus TCP, Beckhoff real-time Ethernet
Signal Connection:	M12 bolted	Storage Temperature:	-25°C to +85°C	Vibration/shock Resistance:	Conforms to EN 60068-2-6/27
Width:	30 mm	Last Verified:	10/24/2026 8:58 AM		

Contact Us

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Payment Methods



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