EP1122-0001

Industrial automation components

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Manufacturer	Beckhoff
Catalog number	ep1122-0001
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Protocol	EtherCAT
Bus Interface	2 x M8 socket, shielded, screw type
Number of Ports	2
Nominal Voltage	24 V DC (-15%/+20%)
Data Transfer Rate	100 Mbit/s
Distance Between Stations	100 m (100BASE-TX)
Operating Temperature	-25…+60°C
Storage Temperature	-40…+85°C
Dimensions	30 mm x 126 mm x 26.5 mm
Waga	approx. 165 g
Protection Rating	IP65/66/67

Description

The Beckhoff EP1122-0001 is a 2-port EtherCAT junction module designed to facilitate the configuration of EtherCAT star topologies. By integrating multiple EP1122-0001 units within a single station, users can establish a modular EtherCAT star network.

This module allows individual devices or entire EtherCAT segments to be connected at its junction ports. The EP1122-0001 features shielded M8 sockets that provide direct indicators for link and activity status, with a Run LED displaying the module's operational status.

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Additionally, it supports the coupling and uncoupling of EtherCAT segments during operation (Hot Connect) when used with TwinCAT or other compatible EtherCAT masters. The module operates at a nominal voltage of 24 V DC, with a tolerance range of -15% to +20%, and supports data transfer rates up to 100 Mbit/s over distances of up to 100 meters using 100BASE-TX cables.

Its rugged PA6 (polyamide) housing ensures durability in industrial environments, and it conforms to protection classes IP65, IP66, and IP67, as per EN 60529 standards. The EP1122-0001 is also compliant with EMC immunity and emission standards EN 61000-6-2 and EN 61000-6-4, and has received approvals including CE, UL, ATEX, and IECEx.