EPP4374-0002

Industrial automation components

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Manufacturer	Beckhoff
Catalog number	epp4374-0002
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Protocol	EtherCAT
Bus Interface	2 x M8 socket, P-coded, shielded
Number of Channels	2 analog outputs + 2 analog inputs
Nominal Voltage	24 V DC (-15%/+20%)
Load	output: > 5 kΩ | < 500 Ω
Internal Resistance	input: > 200 kΩ | typ. 85 Ω + diode voltage
Resolution	16 bit
Conversion Time (Input)	~ 100 µs
Conversion Time (Output)	~ 40 µs
Measurement Error (Input)	< 0.3% (relative to full scale value)
Measurement Error (Output)	< 0.1% (relative to full scale value)
Actuator Supply	from the auxiliary voltage U P

Description

The Beckhoff EPP4374-0002 is an EtherCAT P Box designed for industrial automation applications, offering two analog inputs and two analog outputs. Each channel can be individually parameterized to handle signals in the ranges of -10 to +10 V or 0/4 to 20 mA, with a resolution of 16 bits for both voltage and current signals.

The device operates with a nominal voltage of 24 V DC, with a tolerance of -15% to +20%, and features electrical isolation up to 500 V. It supports a wide operating temperature range from -25°C to +60°C

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and is housed in a PA6 (polyamide) enclosure measuring 30 mm x 126 mm x 26.5 mm, with a weight of approximately 165 g.

The EPP4374-0002 complies with various standards, including EN 60068-2-6, EN 60068-2-27, EN 61000-6-2, and EN 61000-6-4, ensuring robust performance in industrial environments. This module is ideal for applications requiring precise analog signal processing and is suitable for integration into EtherCAT-based automation systems.