EL3048

Industrial automation components

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Manufacturer	Beckhoff
Catalog number	el3048
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Input Channels	8 channels
Signal Range	0 to 20 mA
Resolution	12 bits
Internal Resistance	85 ohms
Input Filter Limit Frequency	1 kHz
Electrical Isolation	500 V
Conversion Time	1.25 ms
Operating Temperature Range	-25 to +60 °C
Dimensions	12 x 100 x 68 mm

Description

The Beckhoff EL3048 is an EtherCAT Terminal designed for industrial automation applications requiring precise analog current measurements. This module features eight single-ended analog input channels, each capable of processing signals within the 0 to 20 mA range.

The current signals are digitized with a 12-bit resolution, ensuring accurate data transmission to the connected automation system. The module operates with a typical internal resistance of 85 Ω and includes an input filter with a limit frequency of 1 kHz, effectively reducing high-frequency noise.

It offers electrical isolation up to 500 V between the E-bus and signal voltage, enhancing system reliability. The EL3048 supports a default conversion time of 1.25 ms, which is configurable to suit specific application needs.

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Designed for robust performance, it operates within a temperature range of -25°C to +60°C and is housed in a compact enclosure measuring 12 mm x 100 mm x 68 mm, suitable for mounting on a 35 mm DIN rail.

The module is compliant with various industry standards, including CE, CCC, UL, ATEX, and IECEx, making it suitable for diverse industrial environments.

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