IE3102

Industrial automation components

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Manufacturer	Beckhoff
Catalog number	ie3102
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Number of Inputs	4 channels
Input Voltage Range	-10 to +10 V
Resolution	16 bit
Input Filter	Configurable
Sensor Supply	Up to 30 V DC
Housing Material	PA6 (Polyamide)
Protection Rating	IP65/66/67
Operating Temperature Range	0 to 55 °C
Storage Temperature Range	-25 to 85 °C

Description

The Beckhoff IE3102 is a versatile 4-channel analog input module designed for industrial automation applications. It processes voltage signals ranging from -10 V to +10 V, converting them into 16-bit digital values for precise data transmission.

Each channel features differential inputs with a common internal ground potential, ensuring accurate measurements in various industrial environments. The module supports a configurable input filter and offers adjustable conversion times, allowing customization to meet specific application requirements.

Additionally, it provides sensor supply capabilities, enabling direct powering of connected sensors up to 30 V DC. The IE3102 is housed in a robust enclosure with an IP65/66/67 protection rating, suitable for diverse installation positions.

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It operates within a temperature range of 0°C to 55°C and complies with industry standards for vibration, shock resistance, and electromagnetic compatibility. This module is ideal for applications requiring reliable and precise analog voltage measurements in industrial settings.