KL3458

Industrial automation components

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Manufacturer	Beckhoff
Catalog number	kl3458
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Number of Inputs	8 channels
Signal Current	4 to 20 mA
Resolution	12 bit
Internal Resistance	<85 Ω
Conversion Time	~4 ms
Measurement Error	<±0.3 %
Surge Voltage Resistance	30 V DC
Electrical Isolation	500 V
Operating Temperature	0 to 55 °C
Storage Temperature	-25 to +85 °C
Relative Humidity	95 %
Protection Rating	IP20

Description

The Beckhoff KL3458 is an 8-channel analog input terminal designed for industrial automation applications requiring precise current measurements. Operating within a 4 to 20 mA range, it digitizes signals with a 12-bit resolution, ensuring accurate data transmission to higher-level automation devices.

This terminal is particularly suitable for space-saving installations in control cabinets, thanks to its compact design and single-conductor connection technology. The KL3458 features galvanic isolation

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between the K-bus and signal voltage, providing robust protection against electrical interference.

Overload conditions are detected, and the terminal status is communicated to the controller via the K-bus. The device operates within a temperature range of 0°C to 55°C and has a protection rating of IP20, making it suitable for various industrial environments.

Its high packing density and reliable performance make it an excellent choice for integrating multiple sensors in confined spaces.