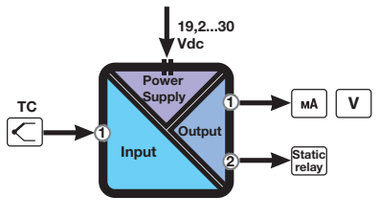


K109TC

TC TO DC CURRENT/VOLTAGE ISOLATOR/CONVERTER (WITH TRIP ALARM)



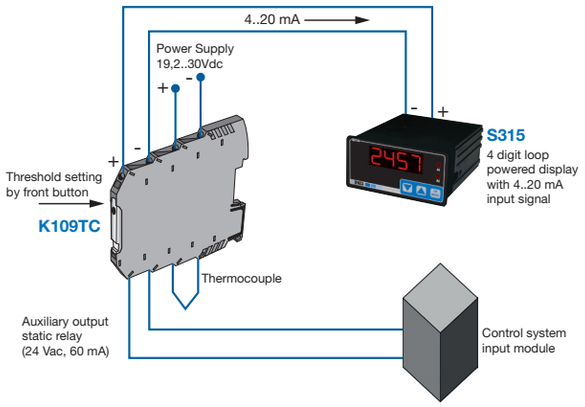
K109TC is a converter for Thermocouples TCs (J, K, E, N, S, R ,B,T) and provides a mA/V standard output signal. Beside available there is a configurable threshold (relay) that may generate an alarm or may be utilized like a thermostat. It's completely configurable through dip switches/trimmer. A 3-way galvanic isolation among Power supply // input // output circuits assures the integrity of your datas.

TECHNICAL SPECIFICATIONS

General Data	
Power supply	19,2…30 Vdc
Power consumption	500 mW
Isolation	1.500 Vac (3 way)
Transducer Power Supply	-
Accuracy	0,1%
Response time	40 ms
Status Indicators	Power supply, error
Setting	Dip Switches
Mounting	35 mm DIN rail guide
Protection Degree	IP20
Operating Temperature	-20..+65 °C
Dimension (W x H x D)	6,2 x 93 x 102,5 mm
Input	
Channel Numbers	1
Thermocouple	Type: J,K,E,N,S,R,B,T (ITS90) Min span: 100 °C Impedance: 10 MΩ
Output	
Channel Numbers	1
Voltage	Range: 0..10 / 10..0 / 0..5 / 1..5 V Min load resistance: 2 kΩ
Current	Range: 4..20 / 20..4 / 0..20 / 20..0 mA Max load resistance: 500 Ω
Realy	Alarm settable as low/high: 24 Vac Nominal Current: 60 mA Max
Standard	
Approval	CE, UL
Norms	EN 50081-2; EN 55011; EN 50082-2; EN 61000-2-2/4; EN 50140/141; EN 61010-1

APPLICATION NOTE

TC conversion / displaying through 315 alarm management



ORDER CODES

Code	Description
K109TC	TC to DC current/voltage isolator/converter (with trip alarm), Power supply 19,2..30 Vdc

ACCESSORIES & SOFTWARE



K-BUS
Backplane for power connection
pg. 114



K-SUPPLY
Redundant power supply module
pg. 114

SIMILAR PRODUCTS



Z109TC
Thermocouple to DC current/voltage isolator/converter
pg. 92



Z109REG2
Universal converter to DC current/voltage isolator converter with alarm output
pg. 78



T121
loop powered universal transmitter
pg. 117



K121
Loop powered isolator / universal converter
pg. 102

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