

2861386

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Inline, Temperature measurement terminal, Analog UTH inputs: 2 (Thermocouples or linear voltage), connection technology: 2-conductor, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Product description

The terminal is designed for use within an Inline station. This terminal can be used to acquire signals from standard thermocouples. It supports 13 different types of thermocouples according to DIN EN 60584-1 and DIN 43710, as well as a linear voltage input of -15 mV to +85 mV.

Your advantages

- · 2 differential inputs for thermocouples or linear voltage
- 1 input for an external cold junction, Pt 1000 or Ni 1000
- The channels are parameterized independently of one another via the bus system
- · Internal detection and compensation of cold junction temperature (can be parameterized)
- Absolute and differential temperature measurement (can be parameterized)
- Pt 1000 sensor in the vicinity of the connection terminal blocks of the thermocouple inputs for internal measurement of the cold junction temperature
- Measured values can be represented in three different formats

Commercial data

Item number	2861386
Packing unit	1 pc
Sales key	DR01
Product key	DRI143
Catalog page	Page 140 (C-6-2019)
GTIN	4017918894320
Weight per piece (including packing)	100.6 g
Weight per piece (excluding packing)	67 g
Customs tariff number	85389099
Country of origin	DE



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Technical data

Dimensions

Dimensional drawing	136,8 119,8
Width	12.2 mm
Height	136.8 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

Notes

Utilization restriction

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Interfaces

Inline local bus

Number of interfaces	2
Connection method	Inline data jumper
Transmission speed	500 kbps

System properties

Module

ID code (dec.)	127
ID code (hex)	7F
Length code (hex)	02
Length code (dec)	02
Process data channel	32 bit
Input address area	4 Byte
Output address area	4 Byte
Register length	32 bit
Required parameter data	6 Byte
Required configuration data	4 Byte

Input data

Analog

Input name	Analog UTH inputs
Description of the input	Inputs for thermocouples or linear voltage



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Number of inputs		2 (Thermocouples or linear voltage)
Connection method		Inline connector
Connection technology		2-conductor
Note regarding the connection techno	ology	Shielded compensating line for TC with encapsulated sensors
A/D conversion time		typ. 120 μs (per channel)
Sensor types that can be used (TC)		U, T, L, J, E, K, N, S, R, B, C, W, HK
Measuring principle		Successive approximation
Measured value representation		16 bits (15 bits + sign bit)
Process data update		max. 30 ms (For both channels)
Protective circuit		Surge protection (TC channels); up to ±40 V
roduct properties		
Туре		modular
Product type		I/O component
Product family		Inline
Scope of delivery		including Inline connector and labeling field
Operating mode		Process data operation with 2 words
Diagnostics messages		Failure of the internal I/O supply I/O error message sent to the bus coupler
	Failure of or insufficient communications power U _L I/O error message sent to the bus coupler	
		I/O error Error message in the process data
	User error Error message in the process data	
Insulation characteristics		
Overvoltage category		II (IEC 60664-1, EN 60664-1)
Pollution degree		2 (IEC 60664-1, EN 60664-1)
lectrical properties		
Maximum power dissipation for nomin	nal condition	0.59 W
Potentials		
Power consumption		typ. 587 mW
		max. 882 mW
Potentials: Communications power (U _L)		
Supply voltage		7.5 V DC (via voltage jumper)
Current draw		max. 60 mA
		typ. 43 mA
	_{ana})	
Potentials: Supply of analog modules (U		24 V/DC (via valtaga iumnar)
Potentials: Supply of analog modules (U Supply voltage		24 V DC (via voltage jumper)
		19.2 V DC 30 V DC (including all tolerances, including ripple)
Supply voltage		



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Test voltage: 7.5 V supply (bus logics)/24 V analog supply (analog I/O)	500 V AC, 50 Hz, 1 min.
Test voltage: 7.5 V supply (bus logic)/functional ground	500 V AC, 50 Hz, 1 min.
Test voltage: 24 V analog supply (analog I/O)/functional ground	500 V AC, 50 Hz, 1 min.

Connection data

Connection technology

Connection name	Inline connector
Conductor connection	
Connection method	Spring-cage connection
Conductor cross section rigid	0.08 mm² 1.5 mm²
Conductor cross section flexible	0.08 mm² 1.5 mm²
Conductor cross section AWG	28 16
Stripping length	8 mm
Inline connector	
Connection method	Spring-cage connection
Conductor cross section, rigid	0.08 mm² 1.5 mm²
Conductor cross section, flexible	0.08 mm² 1.5 mm²

28 ... 16

8 mm

Environmental and real-life conditions

Conductor cross section AWG

Ambient conditions

Stripping length

-25 °C 55 °C
-23 0 33 0
IP20
70 kPa 106 kPa (up to 3000 m above sea level)
70 kPa 106 kPa (up to 3000 m above sea level)
-25 °C 85 °C
10 % 95 % (non-condensing)
10 % 95 % (non-condensing)
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Standards and regulations

Protection class III (IEC 61140, EN 61140, VDE 0140-1)	Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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Mounting

Mounting type	DIN rail mounting



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