

2861328

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Inline, Temperature measurement terminal, Analog RTD inputs: 2, connection technology: 2-, 3-, 4-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. It is used to acquire signals from resistive temperature sensors. The terminal supports all common platinum and nickel sensors according to DIN EN 60751 and SAMA. Cu10, Cu50, and Cu53 sensors as well as KTY81 and KTY84 sensors are also supported. The measuring temperature is represented by 16-bit values in two process data words (one word per channel).

### Your advantages

- · 2 inputs for resistive temperature sensors
- · Pt, Ni, Cu, KTY sensor types according to DIN and SAMA
- · Connection of sensors in 2-, 3-, and 4-conductor technology
- The channels are parameterized independently of one another via the bus system
- · Measured values can be represented in three different formats
- · Measured value acquisition with a resolution of 16 bits

### Commercial data

Item number	2861328
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRI143
Product key	DRI143
Catalog page	Page 141 (C-6-2019)
GTIN	4017918894269
Weight per piece (including packing)	96 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	196.8 119,8
Width	12.2 mm
Height	136.8 mm
Depth	71.5 mm

#### Notes

#### Note on application

The straight	
Note on application	Only for industrial use
Utilization restriction	
CCCex note	Use in potentially explosive areas is not permitted in China.

#### 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



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Input name	Analog RTD inputs
Description of the input	Input for resistive temperature sensors
Number of inputs	2
Connection method	Spring-cage connection
Connection technology	2-, 3-, 4-conductor
Note regarding the connection technology	shielded
A/D conversion time	typ. 120 µs (per channel)
A/D converter resolution	16 bit
Sensor types (RTD) that can be used	Pt, Ni, KTY, Cu sensors, linear resistors
Measuring principle	Successive approximation
Measured value representation	16 bit two's complement
Linear resistance measuring range	0 Ω 400 Ω
	0 Ω 4 kΩ
Process data update	32 ms (both channels use 3-conductor technology)
	20 ms (one channel in 2-conductor technology and one channel in 4-conductor technology)
	20 ms (both channels in 2-conductor technology)
roduct properties	
Product type	I/O component
Product family	Inline
Туре	modular
Scope of supply	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 <sub>L</sub> 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)
ectrical properties	
Maximum power dissipation for nominal condition	0.9 W
Potentials: Communications power (U <sub>L</sub> )	
Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 60 mA
	typ. 43 mA
Potentials: Supply of analog modules (U <sub>ANA</sub> )	
Supply voltage	24 V DC (via voltage jumper)
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
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Mounting

Mounting type

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Current draw	max. 18 mA
	typ. 11 mA
Electrical isolation/isolation of the voltage ranges	
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
Life and the second of the sec	
Inline connector	Continue and a continue
Connection method	Spring-cage connection  0.08 mm² 1.5 mm²
Conductor cross section, rigid	0.08 mm² 1.5 mm²
Conductor cross section, flexible  Conductor cross section AWG	28 16
Stripping length	8 mm
invironmental and real-life conditions  Ambient conditions	
Ambient temperature (operation)	-25 °C 55 °C
Degree of protection	IP20
Air pressure (operation)	70 kPa 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa 106 kPa (up to 3000 m above sea level)
Ambient temperature (storage/transport)	-25 °C 85 °C
Permissible humidity (operation)	10 % 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % 95 % (non-condensing)
Standards and regulations	
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
Acustina	

DIN rail mounting

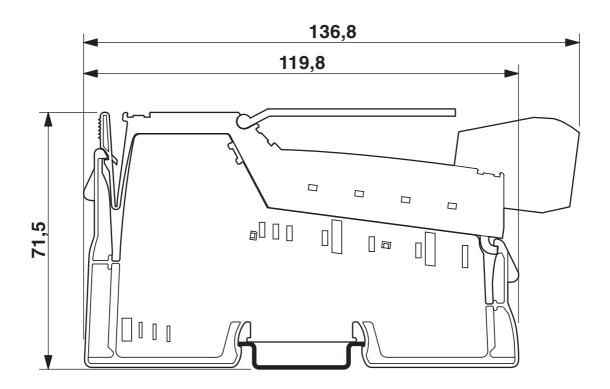


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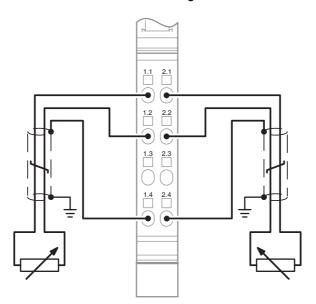
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## Drawings

### Dimensional drawing



## Connection diagram





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## **Approvals**

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**DNV GL** 

Approval ID: TAA00000BN



BV

Approval ID: 20977/C0 BV



Approval ID: 658a



RINA

Approval ID: ELE121121XG



Approval ID: 22-2226444-PDA



cULus Recognized

Approval ID: E140324



LR

Approval ID: LR23398855TA



**cUL Listed** 

Approval ID: E256199



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Approval ID: E256199



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Approval ID: E199827



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## Classifications

	ECLASS-13.0	27242601
ΕΊ	ГІМ	
	ETIM 9.0	EC001596
UNSPSC		
	UNSPSC 21.0	32151600



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## Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	14d2f97e-cfd0-4f19-a29a-b4435b4dfc30
EF3.0 Climate Change	
CO2e kg	8.251 kg CO2e

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