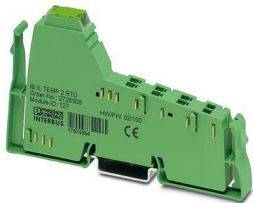


IB IL TEMP 2 RTD - Inline function terminal

2726308

<https://www.phoenixcontact.com/us/products/2726308>

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Inline analog input terminal; without accessories; 2 inputs; RTD (resistance temperature detector); 2-, 3-, 4-conductor connection technology

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).

Commercial data

Item number	2726308
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI143
GTIN	4017918168148
Weight per piece (including packing)	69.9 g
Weight per piece (excluding packing)	69.9 g
Customs tariff number	85389091
Country of origin	DE

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Technical data

Product properties

Type	modular
	Inline

System properties

Module

ID code (dec.)	127
ID code (hex)	2F
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

Electrical properties

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

Potentials: Supply of analog modules (U_{ANA})

Supply voltage	24 V DC (via voltage jumper)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
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

Input data

Analog:

Input name	Analog RTD inputs
Number of inputs	2 (typ. ± 0.50 °C)

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Connection method	Spring-cage connection
Connection technology	2, 3-conductor
A/D conversion time	typ. 120 μ s (per channel)
A/D converter resolution	16 bit (15 bit + sign bit)
Sensor types (RTD) that can be used	Pt, Ni, Cu, KTY, linear resistors
Measuring principle	Successive approximation
Measured value representation	16 bits two's complement and other
Linear resistance measuring range	0 Ω ... 400 Ω 0 Ω ... 4 k Ω
Process data update	30 ms

Connection data

Inline connector

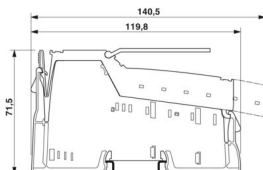
Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm ² ... 1.5 mm ²
Conductor cross-section, flexible	0.08 mm ² ... 1.5 mm ²
Conductor cross-section AWG	28 ... 16

Interfaces

Inline local bus

Connection method	Inline data jumper
Transmission speed	500 kbps
Transmission physics	Copper

Dimensions

Dimensional drawing	
Width	12.2 mm
Height	119.8 mm
Depth	71.5 mm

Material specifications

Color	green
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Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Degree of protection	IP20

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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 % (according to DIN EN 61131-2)
Permissible humidity (storage/transport)	10 % ... 95 % (according to DIN EN 61131-2)

Standards and regulations

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

Mounting type	DIN rail mounting
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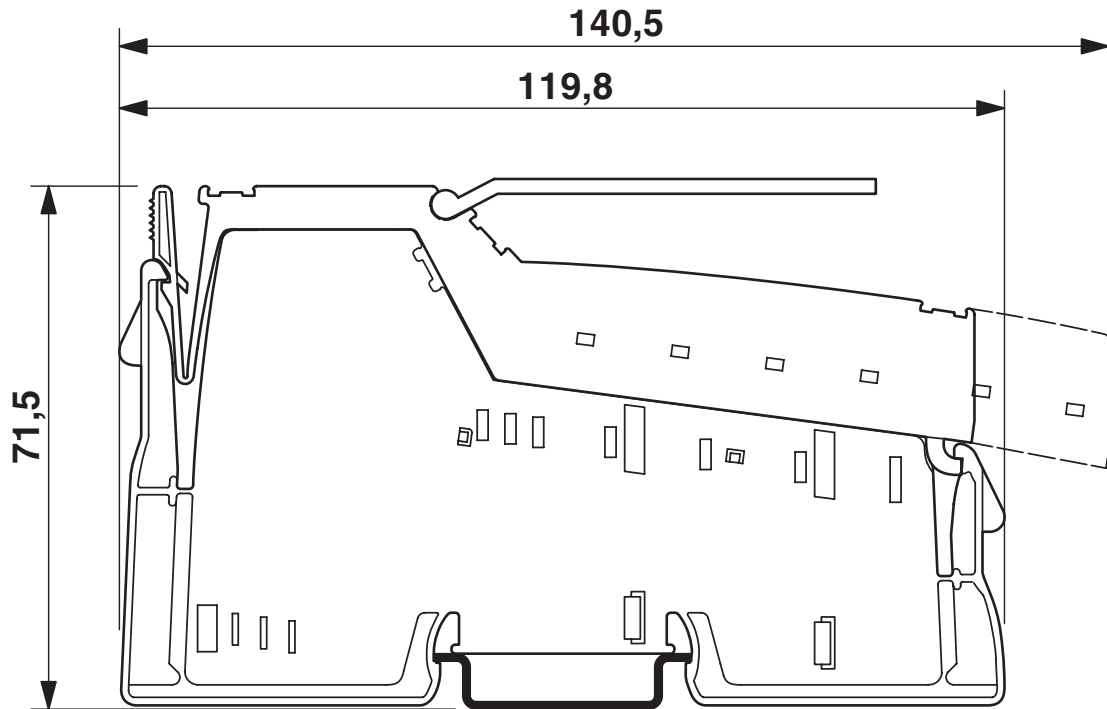
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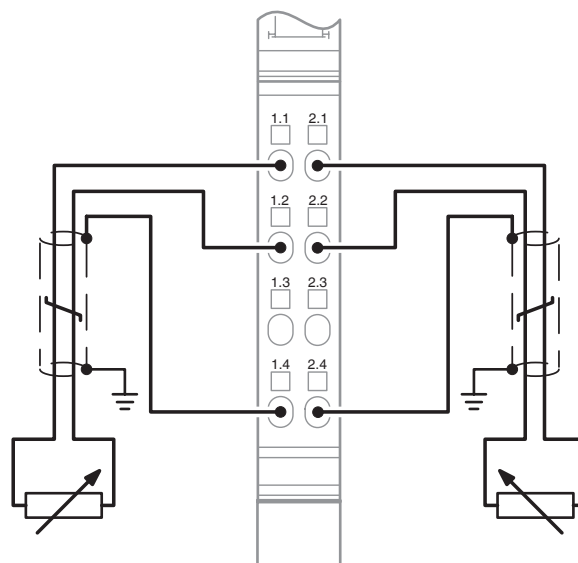
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Drawings

Dimensional drawing



Connection diagram



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Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com