

IB IL TEMP 4/8 RTD-PAC/CN - Inline function terminal



2692487

<https://www.phoenixcontact.com/us/products/2692487>

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Inline Modular analog input terminal, 8 inputs, RTD (resistance temperature detector), 3-conductor connection technology, complete with numbered I/O connectors

Your advantages

- Diagnostic and status indicators
- Temperature and resistance measurement in the millisecond range
- Robust inputs ideal for use in harsh industrial environments with electromagnetic interference
- The channels are parameterized independently of one another via the bus system
- Communication either via process data or parameter channel (PCP)
- Connection of sensors in 2- and 3-conductor technology
- 8 inputs for resistive temperature sensors and linear resistors up to 20 k Ω
- Measured values can be represented in three different formats
- Pt, Ni, Cu, KTY sensor types according to DIN and SAMA

Commercial data

Item number	2692487
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI143
GTIN	4046356337304
Weight per piece (including packing)	256.9 g
Weight per piece (excluding packing)	256.9 g
Customs tariff number	85389091
Country of origin	DE

Technical data

Material specifications

Color	green
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Interfaces

Inline local bus

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

System properties

Programming data

Length code (hex)	05
ID code (dec.)	223
Length code (dec)	05
Process data channel	80 bit
Input address area	10 Byte
Output address area	10 Byte
Parameter channel (PCP)	2 Byte
Register length (bus)	96 bit

Fieldbus data telegram

Required parameter data	31 Byte
Required configuration data	5 Byte

Input data

Analog:

Input name	Analog RTD inputs
Description of the input	Input for resistive temperature sensors
Number of inputs	8
Connection method	Spring-cage connection
Connection technology	2, 3-conductor
A/D conversion time	max. 10 μ s
Sensor types (RTD) that can be used	Pt, Ni, KTY, Cu sensors, linear resistors
Data formats	IB IL, IB ST, S7 compatible
Measuring principle	Successive approximation
Measured value representation	16 bits (15 bits + sign bit)
Linear resistance measuring range	0 Ω ... 400 Ω 0 Ω ... 20 k Ω
Process data update	6 ms (Up to 230 ms possible depending on operating mode)

Product properties

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Product type	I/O component
Type	modular
	Inline
Operating mode	Process data mode with 5 words/1 word PCP

Electrical properties

Potentials

Power consumption	typ. 1.24 W
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Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	typ. 75 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	typ. 28 mA

Electrical isolation/isolation of the voltage ranges

Test voltage: 7.5 V supply (bus logic)/ ± 15.5 V, ± 5 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: ± 15.5 V, ± 5 V analog supply (analog I/O)/functional ground	500 V AC, 50 Hz, 1 min

Connection data

Connection technology

Connection name	Inline connector
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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

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

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Standards and regulations

Protection class

III (IEC 61140, EN 61140, VDE 0140-1)

Mounting

Mounting type

DIN rail mounting

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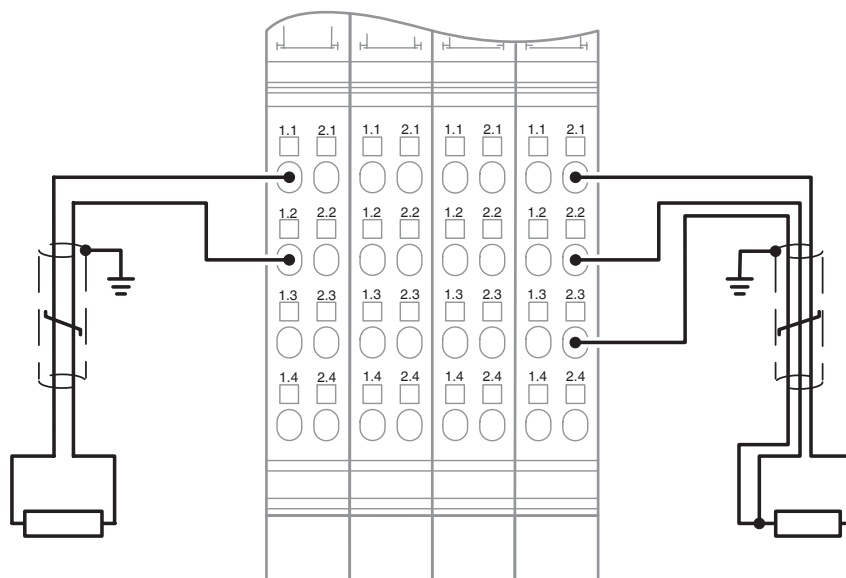
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Drawings

Dimensional drawing



Connection diagram



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Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	
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	No substance above 0.1 wt%
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