

# 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 $\Omega$
- 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

#### Module

ID code (dec.)	223
ID code (hex)	DF
Length code (hex)	05
Length code (dec)	05
Process data channel	80 bit
Input address area	10 Byte
Output address area	10 Byte
Register length	96 bit
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 $\mu$ 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 $\Omega$ ... 400 $\Omega$ 0 $\Omega$ ... 20 k $\Omega$
Process data update	6 ms (Up to 230 ms possible depending on operating mode)

### Product properties

Product type	I/O component
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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)/ $\pm 15.5$ V, $\pm 5$ 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: $\pm 15.5$ V, $\pm 5$ 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 <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
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)

## Standards and regulations

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Protection class

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

## Mounting

Mounting type

DIN rail mounting

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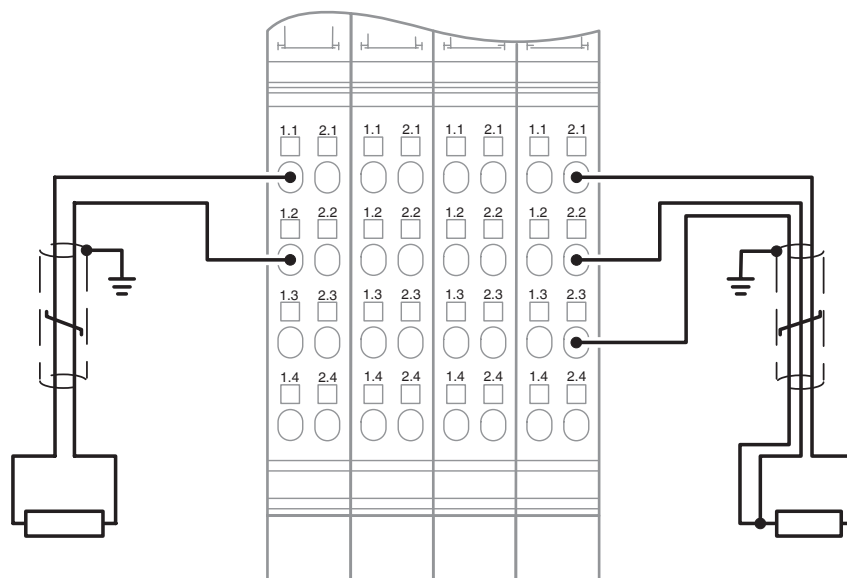
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## Drawings

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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