

Analog module - IB IL TEMP 4/8 RTD-PAC



2863915

<https://www.phoenixcontact.com/nz/products/2863915>

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Inline analog input terminal, complete with accessories (connector and marking field), 8 channels, RTD (resistance temperature detector), 2-, 3-conductor connection technology



Product Description

The terminal is designed for use within an Inline station. This terminal provides an 8-channel input module for resistance temperature detectors.

Your advantages

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

Commercial Data

Item number	2863915
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DNI143
Product Key	DRI143
Catalog Page	Page 141 (C-6-2019)
GTIN	4017918955410
Weight per Piece (including packing)	256.9 g
Weight per Piece (excluding packing)	190 g
Customs tariff number	85411000
Country of origin	DE

Analog module - IB IL TEMP 4/8 RTD-PAC

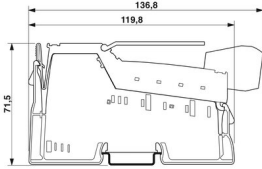


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Technical Data

Dimensions

Dimensional drawing	
Width	48.8 mm
Height	136.8 mm
Depth	71.5 mm

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

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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

Type	modular
Product type	I/O component
Scope of delivery	including Inline connectors and marking fields
Operating mode	Process data mode with 5 words/1 word PCP

Electrical properties

Maximum power dissipation for nominal condition	0.59 W
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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	max. 100 mA 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	max. 55 mA typ. 28 mA

Connection data

Connection technology

Connection name	Inline connector
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Conductor connection

Connection method	Spring-cage connection
Conductor cross section solid	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
Stripping length	8 mm

Inline connector

Connection method	Spring-cage connection
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Conductor cross section, rigid	0.08 mm ² ... 1.5 mm ²
Stripping length	8 mm

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

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

Mounting type	DIN rail mounting
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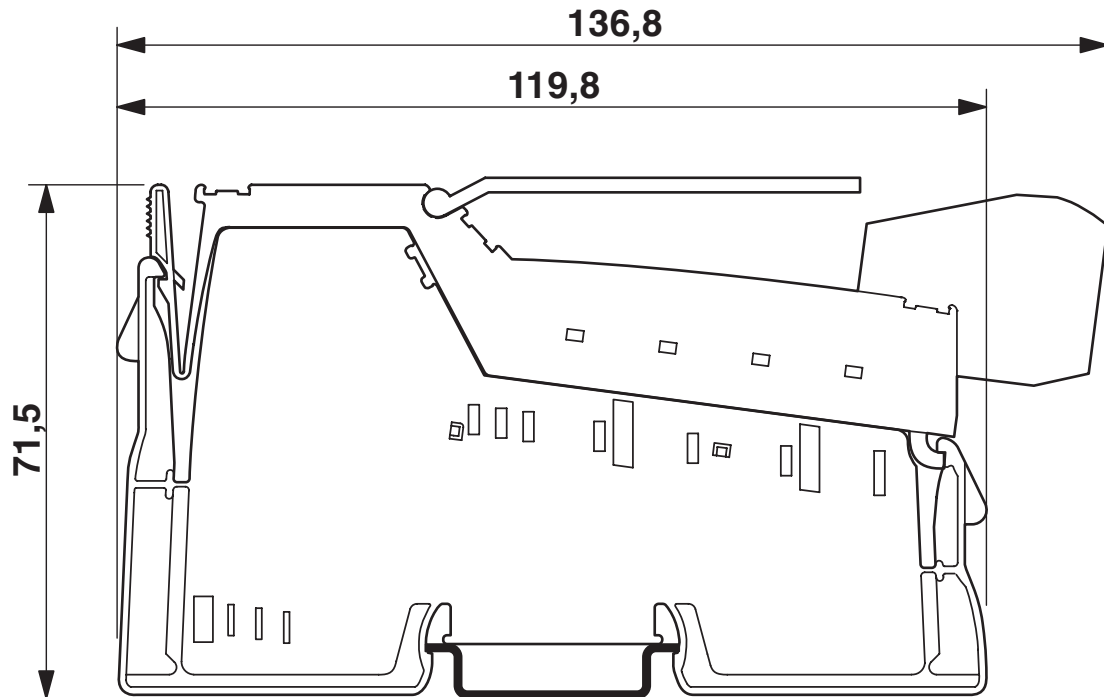


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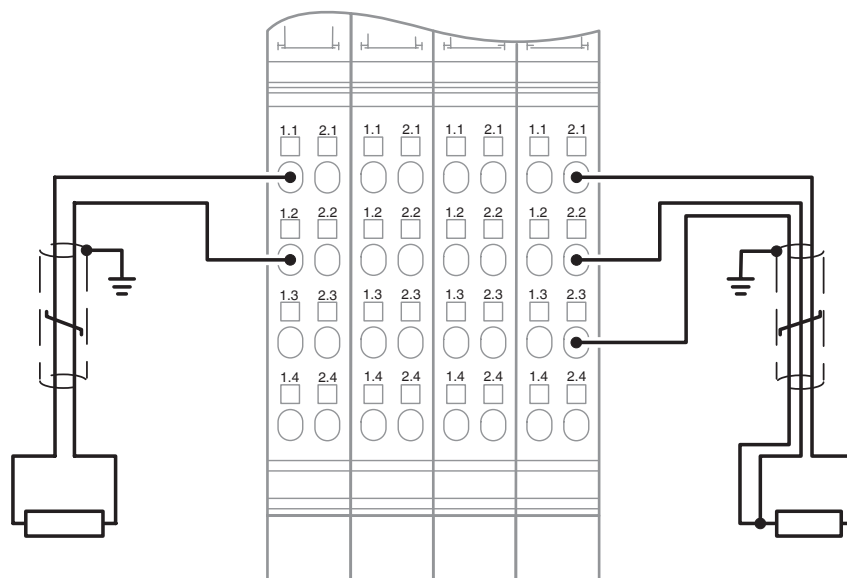
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Drawings

Dimensional drawing



Connection diagram



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Approvals



EAC

Approval ID: EAC-Zulassung



DNV GL

Approval ID: TAA00000BN



LR

Approval ID: LR22191720TA



BV

Approval ID: 21595/C0 BV



UL Listed

Approval ID: FILE E 140324



cUL Listed

Approval ID: FILE E 140324

BSH

Approval ID: 658a



RINA

Approval ID: ELE121121XG

ABS

Approval ID: 22-2226444-PDA

BSH

Approval ID: Anwenderhinweis

cULus Listed

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Classifications

ECLASS

ECLASS-9.0	27242601
ECLASS-10.0.1	27242601
ECLASS-11.0	27242601
ECLASS-12.0	27242601

ETIM

ETIM 8.0	EC001596
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UNSPSC

UNSPSC 21.0	32151600
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Environmental Product Compliance

REACH SVHC

Lead 7439-92-1

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Accessories

Inline shield connector

Inline shield connector - IB IL SCN 6-SHIELD-TWIN - 2740245

<https://www.phoenixcontact.com/nz/products/2740245>



Inline shield connector

Inline shield connector

Inline shield connector - IB IL SCN-6 SHIELD - 2726353

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Inline shield connector

Labeling field

Labeling field - IB IL FIELD 2 - 2727501

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Labeling field, width: 12.2 mm



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Labeling field

Labeling field - IB IL FIELD 8 - 2727515

<https://www.phoenixcontact.com/nz/products/2727515>

Labeling field, width: 48.8 mm



Insert strip

Insert strip - ESL 62X10 - 0809492

<https://www.phoenixcontact.com/nz/products/0809492>

Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems:
Laser printer, mounting type: insert, lettering field size: 62 x 10 mm, Number of individual labels: 72



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Insert strip

Insert strip - ESL 62X46 - 0809502

<https://www.phoenixcontact.com/nz/products/0809502>

Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems:
Laser printer, mounting type: insert, lettering field size: 62 x 46 mm, Number of
individual labels: 15



Software

Software - AX+ BASIC - 2985068

<https://www.phoenixcontact.com/nz/products/2985068>

Software CD for FDT container for integrating device DTMs (free download)



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Programming software

Programming software - AX DTM LIB - 2988065

<https://www.phoenixcontact.com/nz/products/2988065>



DTM library

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