

## Inline function terminal - IB IL TEMP 4/8 RTD-PAC - 2863915

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Inline analog input terminal, complete with accessories (connector and labeling field), 8 channels, RTD (resistance temperature detector), 2, 3-wire connection method


### 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 kΩ
- Connection of sensors in 2 and 3-wire 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

### Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 955410
GTIN	4017918955410
Weight per Piece (excluding packing)	190.000 g
Custom tariff number	85389091
Country of origin	Germany

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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## Technical data

### Dimensions

Width	48.8 mm
Height	136.8 mm
Depth	71.5 mm

### Ambient conditions

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

### General

Mounting type	DIN rail
Color	green
Net weight	190 g
Operating mode	Process data mode with 5 words/1 word PCP

### Interfaces

Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kbps
Transmission physics	Copper

### Inline potentials

Designation	Communications power ( $U_L$ )
Supply voltage	7.5 V DC (via voltage jumper)
Current consumption	typ. 75 mA
	max. 100 mA
Designation	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 consumption	typ. 28 mA
	max. 55 mA
Power consumption	typ. 1.24 W

### Analog inputs

Number of inputs	8
Input name	Analog RTD inputs
Description of the input	Input for resistive temperature sensors
Connection method	Spring-cage connection
Connection technology	2, 3-conductor

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### Technical data

#### Analog inputs

Sensor types (RTD) that can be used	Pt, Ni, KTY, Cu sensors, linear resistors
Linear resistance measuring range	0 Ω ... 400 Ω
	0 Ω ... 20 kΩ
Measuring principle	Successive approximation
Measured value representation	16 bits (15 bits + sign bit)
A/D conversion time	max. 10 μs
Process data update	6 ms (Up to 230 ms possible depending on operating mode)
Data formats	IB IL, IB ST, S7 compatible

#### Electrical isolation

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

#### Standards and Regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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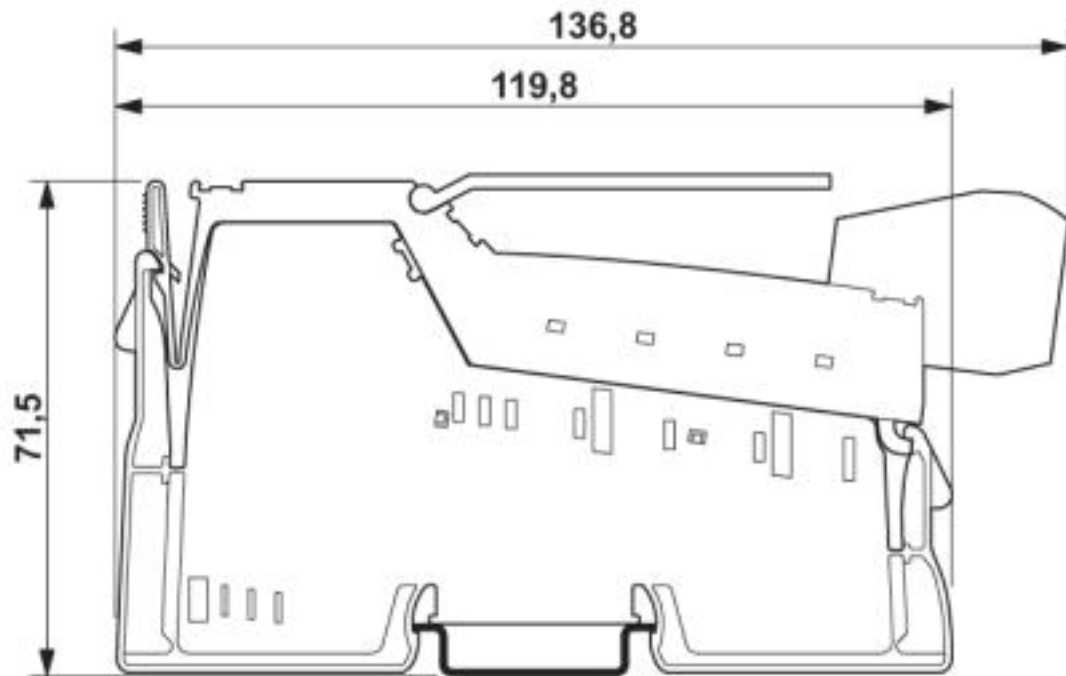
#### Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

### Drawings

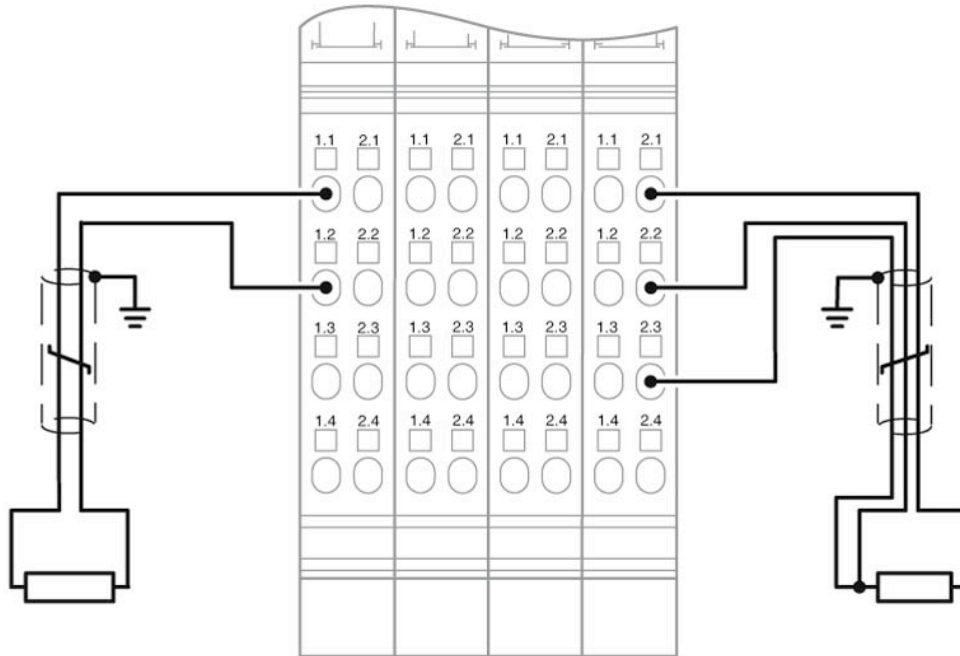
# Inline function terminal - IB IL TEMP 4/8 RTD-PAC - 2863915

Dimensional drawing



# Inline function terminal - IB IL TEMP 4/8 RTD-PAC - 2863915

Connection diagram



## Classifications

eCl@ss

eCl@ss 4.0	27250300
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## Classifications

### eCl@ss

eCl@ss 4.1	27250300
eCl@ss 5.0	27250300
eCl@ss 5.1	27242600
eCl@ss 6.0	27242600
eCl@ss 7.0	27242601
eCl@ss 8.0	27242601
eCl@ss 9.0	27242601

### ETIM

ETIM 2.0	EC001431
ETIM 3.0	EC001596
ETIM 4.0	EC001596
ETIM 5.0	EC001596
ETIM 6.0	EC001596
ETIM 7.0	EC001596

### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

## Approvals

### Approvals

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#### Approvals

DNV GL / BSH / BV / LR / ABS / BSH / RINA / UL Listed / cUL Listed / EAC / cULus Listed

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#### Ex Approvals

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### Approval details

# Inline function terminal - IB IL TEMP 4/8 RTD-PAC - 2863915

## Approvals

DNV GL		<a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a>	TAA00000BN
BSH		<a href="http://www.bsh.de/de/index.jsp">http://www.bsh.de/de/index.jsp</a>	Anwenderhinweis
BV		<a href="http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials">http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials</a>	21595/B0 BV
LR		<a href="http://www.lr.org/en">http://www.lr.org/en</a>	08/20033
ABS		<a href="http://www.eagle.org/eagleExternalPortalWEB/">http://www.eagle.org/eagleExternalPortalWEB/</a>	17-HG1621871-PDA
BSH		<a href="http://www.bsh.de/de/index.jsp">http://www.bsh.de/de/index.jsp</a>	658
RINA		<a href="http://www.rina.org/en">http://www.rina.org/en</a>	ELE335818XG
UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140324
cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 140324
EAC			EAC-Zulassung
cULus Listed			

## Accessories

Accessories

Device parameterization

## Inline function terminal - IB IL TEMP 4/8 RTD-PAC - 2863915

### Accessories

Software - AX+ BASIC - 2985068



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

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### Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



Labeling field - IB IL FIELD 8 - 2727515

Labeling field, width: 48.8 mm



### Plug

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



Inline shield connector

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



Inline shield connector

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### Programming



## Inline function terminal - IB IL TEMP 4/8 RTD-PAC - 2863915

### Accessories

Software - AX DTM LIB - 2988065



DTM library

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### Terminal marking

Insert strip - ESL 62X10 - 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 - ESL 62X46 - 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: 120

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