

## Inline function terminal - IB IL TEMP 2 RTD-PAC - 2861328

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Inline analog input terminal, complete with accessories (connector plug and labeling field), 2 inputs, RTD (resistance temperature detector), 2-, 3-, 4-wire connection technology

### Product description


Using these analog input terminals, it is possible to measure signals from conventional thermocouples and resistance thermometers. The terminals are configured for connection to various types of sensors. The user can configure the different sensor characteristic curves himself via process data. It is thus possible to attain the best possible adaptations in very different applications. The Inline terminals can be labeled using hinged labeling fields. The fields have insert cards that can be labeled individually to suit the application. Additionally, there is the proven ZBFM-6... Zack strip for labeling the terminal points.

### Why buy this product

- Pt, Ni, Cu, KTY sensor types according to DIN and SAMA
- Measured value acquisition with 16-bit resolution
- Channel scout for optical channel identification
- Connection of sensors in 2, 3, and 4-wire technology



### Key commercial data

Packing unit	1 pc
GTIN	 4 017918 894269
Weight per Piece (excluding packing)	67.0 g
Weight per piece (including packing)	96.0 g
Custom tariff number	85389091
Country of origin	Germany
Sales Key	O1 - Automatation Systems

### Technical data

#### Note

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

Width	12.2 mm
Height	136.8 mm

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## Technical data

### Dimensions

Depth	71.5 mm
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### 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

Weight	67 g
Note on weight specifications	with connector
Mounting type	DIN rail
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Test section	7.5 V supply (bus logics)/24 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
	24 V analog supply (analog I/O) / functional earth ground 500 V AC 50 Hz 1 min

### Interfaces

Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kBit/s
Transmission physics	Copper

### Inline potentials

Communications power $U_L$	7.5 V DC (via voltage jumper)
Current consumption from $U_L$	max. 60 mA
	typ. 43 mA
I/O supply voltage $U_{ANA}$	24 V DC
Current consumption from $U_{ANA}$	max. 18 mA
	typ. 11 mA
Power consumption	typ. 587 mW
	max. 882 mW

### Analog inputs

Number of inputs	2
Input name	Analog RTD inputs
Description of the input	Input for resistive temperature sensors
Connection method	Spring-cage connection
	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 ... 4 kΩ
Measuring principle	Successive approximation
Measured value representation	16 bits two's complement and other
A/D conversion time	typ. 120 μs (per channel)
Resolution A/D	16 bit (15 bit + sign bit)
Process data update	30 ms

## Classifications

### eCl@ss

eCl@ss 4.0	27250303
eCl@ss 4.1	27250303
eCl@ss 5.0	27250303
eCl@ss 5.1	27242601
eCl@ss 6.0	27242601
eCl@ss 7.0	27242601
eCl@ss 8.0	27242601

### ETIM

ETIM 2.0	EC001431
ETIM 3.0	EC001596
ETIM 4.0	EC001596
ETIM 5.0	EC001596

### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

## Approvals

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UL Recognized / cUL Recognized / GOST / LR / GL / BV / DNV / ABS / RINA / GL-SW / BSH / BSH / cULus Recognized / GL

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## Approvals

Ex Approvals


UL Listed / cUL Listed / ATEX / UL Listed / cUL Listed / cULus Listed


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Approvals submitted

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### Approval details

UL Recognized 

cUL Recognized 

GOST 

LR

GL

BV

DNV

ABS

RINA

GL-SW

BSH

BSH

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### Approvals

cULus Recognized 

GL

### Accessories

#### Accessories

#### Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



### Plug

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



Inline shield connector

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



Inline shield connector

### Terminal marking

Insert strip - ESL 62X10 - 0809492

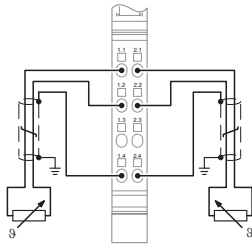
Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 10 mm



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### Drawings

Connection diagram



Dimensioned drawing

