

# IB IL EX-IS TEMP 4 RTD/TC-PAC - Inline terminal



2869913

<https://www.phoenixcontact.com/us/products/2869913>

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Inline intrinsically safe temperature terminal, 4 configurable input channels, complete with accessories



## Your advantages

- Fieldbus-independent diagnostics using FDT/DTM technology
- Module-based electrical isolation
- RTD inputs: Pt 100, etc.
- 2- or 3-conductor RTD sensors
- Single-channel diagnostics
- 4 configurable I/O channels
- TC inputs: J, K, E, etc.

## Commercial data

Item number	2869913
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI1E8
GTIN	4046356470179
Weight per piece (including packing)	301.2 g
Weight per piece (excluding packing)	222 g
Customs tariff number	85389099
Country of origin	US

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## Technical data

### Dimensions

Dimensional drawing	
Width	48.8 mm
Height	136.8 mm
Depth	71.5 mm

### Notes

#### Utilization restriction

CCCex note	Use in potentially explosive areas is not permitted in China.
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### Material specifications

Color	blue
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### Interfaces

#### Inline local bus

Connection method	Inline data jumper
Transmission speed	500 kbps

### Input data

#### Analog:

Voltage input signal	-15 mV ... 85 mV
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#### Analog:

Number of inputs	4
Connection method	Inline shield connector
Connection technology	2-, 3-conductor
A/D converter resolution	16 bit (15 bit + sign bit)
Sensor types (RTD) that can be used	2 and 3-wire, Pt, Ni (DIN 100, 200, 500, 1000)
Sensor types that can be used (TC)	J, K, E, R, S, T
Data formats	IB IL, S7-compatible
Linear resistance measuring range	0 Ω ... 800 Ω 0 Ω ... 5000 Ω
Protective circuit	Polarity protection, surge protection

### Product properties

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Product type	I/O component
Type	modular
	Inline

## Electrical properties

### Potentials

Power consumption	1.5 W (all channels)
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### Potentials: Communications power ( $U_L$ )

Supply voltage	5 V DC (via voltage jumper)
Current draw	max. 50 mA

### Potentials: $U_{EX}$ supply to I/O terminals

Supply voltage	28 V DC
Current draw	max. 80 mA

## Connection data

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
Stripping length	8 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C
Degree of protection	IP20
Air pressure (operation)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	10 % ... 95 % (according to DIN EN 61131-2)

## Approvals

### Ex data

ATEX	Ⓜ II 3(1)GD Ex nA [ia Ga Da] IIC T4 Gc Sira 09ATEX2339X
IECEX	Ex nA [ia Ga Da] IIC T4 Gc IECEX SIR 10.0033X
FM approval	Class I, Div. 2, Groups A, B, C, D
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

## Mounting

Mounting type	DIN rail mounting
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## Ex data

### Safety data

# IB IL EX-IS TEMP 4 RTD/TC-PAC - Inline terminal



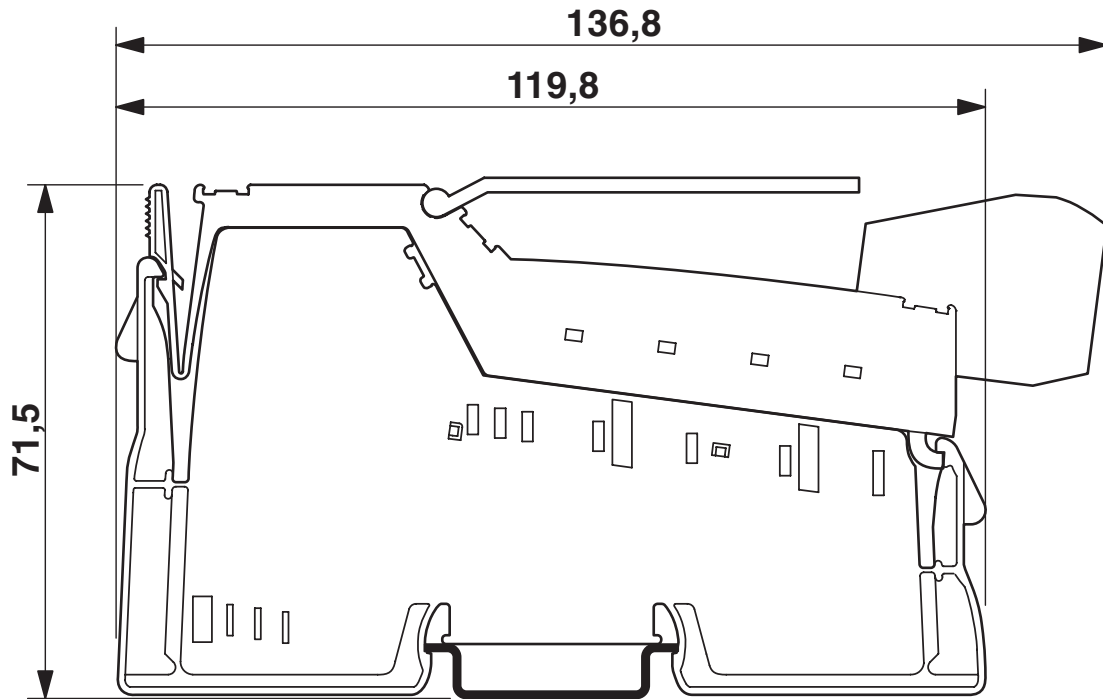
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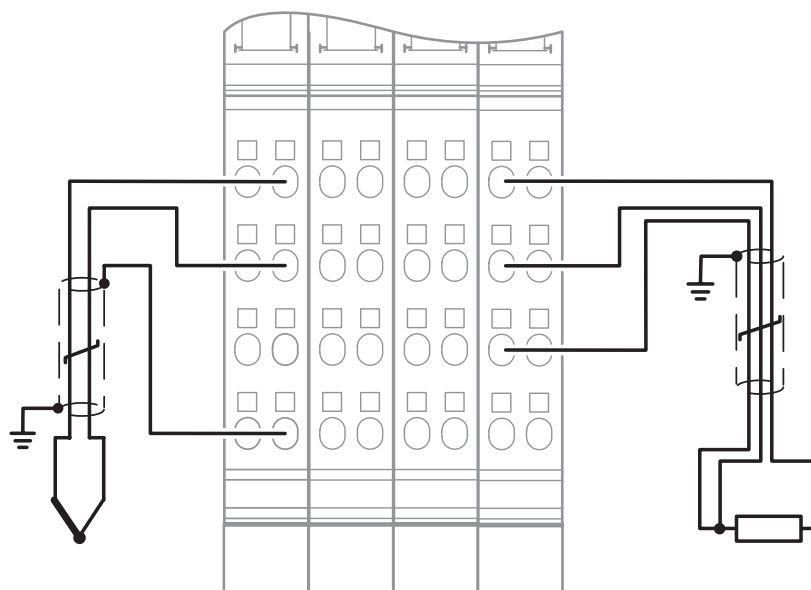
Max. output voltage $U_o$	max. 5.88 V DC
Max. output current $I_o$	max. 95 mA
Max. output power $P_o$	max. 139 mW
IIC (A, B): Max. external inductivity $L_o$ / Max. external capacitance $C_o$	0.984 mH / 42 $\mu$ F
IIB, [IIIC, IIIB] (C, E, F, G): Max. external inductivity $L_o$ / Max. external capacitance $C_o$	2.9 mH / 999 $\mu$ F
IIA (D): Max. external inductivity $L_o$ / Max. external capacitance $C_o$	7.8 mH / 999 $\mu$ F

Drawings

Dimensional drawing



Connection diagram



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## Approvals

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**ATEX**

Approval ID: Sira 09ATEX2339X

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## Classifications

### UNSPSC

UNSPSC 21.0	32151600
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## Environmental product compliance

### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

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