

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 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

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

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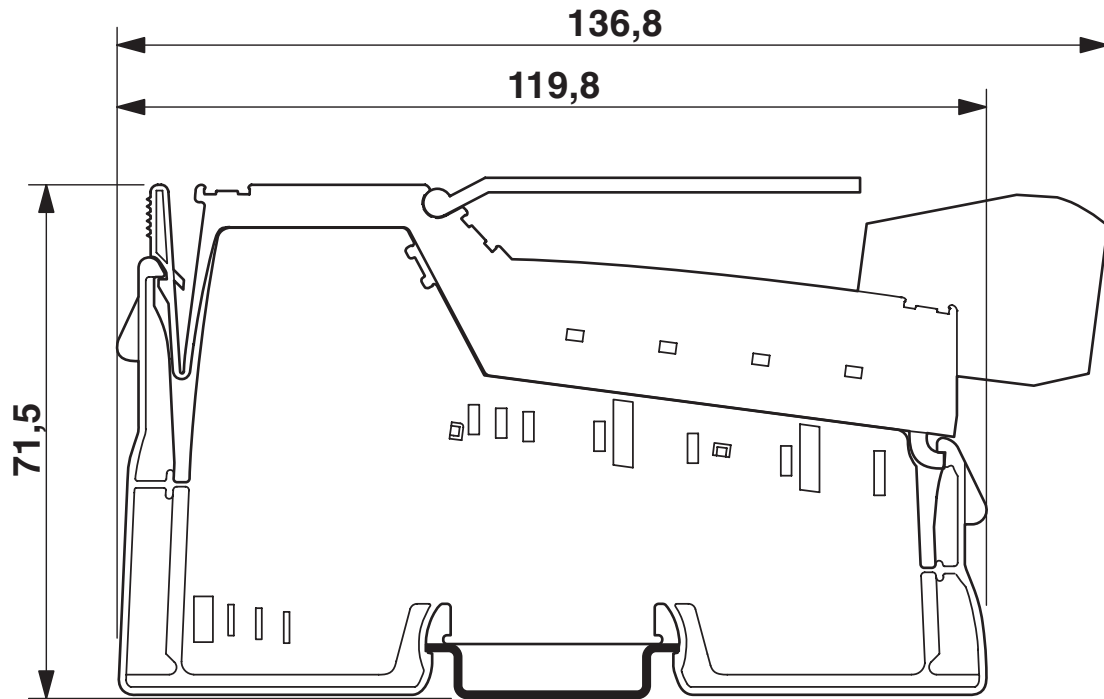
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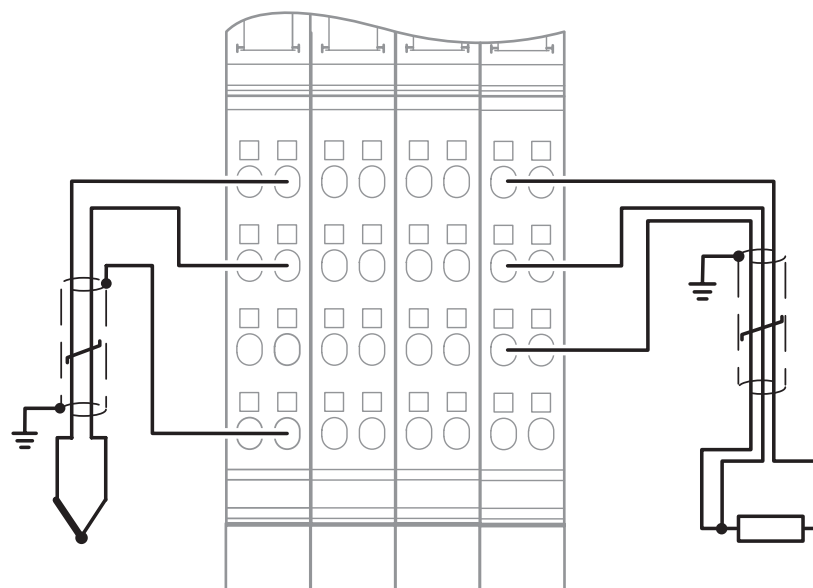
Max. output voltage U_o	max. 5.88 V DC
Max. output current I_o	max. 95 mA
Max. output power P_o	max. 139 mW
IIC (A, B): Max. external inductivity L_o / Max. external capacitance C_o	0.984 mH / 42 μ F
IIB, [IIIC, IIIB] (C, E, F, G): Max. external inductivity L_o / Max. external capacitance C_o	2.9 mH / 999 μ F
IIA (D): Max. external inductivity L_o / Max. external capacitance C_o	7.8 mH / 999 μ 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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com