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

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Inline, Temperature measurement terminal, Analog RTD inputs: 2, connection method: 2, 3, 4-wire, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Product Description

The terminal is designed for use within an Inline station.
It is used to acquire signals from resistive temperature sensors.
The terminal supports all common platinum and nickel sensors according to DIN EN 60751 and SAMA.
Cu10, Cu50, and Cu53 sensors as well as KTY81 and KTY84 sensors are also supported.
The measuring temperature is represented by 16-bit values in two process data words (one word per channel).

Your advantages

- Two inputs for resistive temperature sensors
- Pt, Ni, Cu, KTY sensor types according to DIN and SAMA
- Connection of sensors in 2, 3, and 4-wire technology
- The channels are parameterized independently of one another via the bus system
- Measured values can be represented in three different formats
- Measured value acquisition with 16-bit resolution

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 017918 894269
GTIN	4017918894269
Weight per Piece (excluding packing)	67.000 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

Dimensions

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Technical data

Dimensions

Width	12.2 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 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)
Air pressure (operation)	70 kPa ... 106 kPa (up to 3000 m above sea level)
	80 kPa ... 106 kPa (up to 3000 m above sea level, in ATEX Zone 2)
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	67 g
Note on weight specifications	with connector
Operating mode	Process data operation with 2 words
Diagnostics messages	Failure of the internal I/O supply I/O error message sent to the bus coupler
	Failure of or insufficient communications power U_L I/O error message sent to the bus coupler
	I/O error Error message in the process data
	User error Error message in the process data

Interfaces

Designation	Inline local bus
No. of channels	2
Connection method	Inline data jumper
Transmission speed	500 kbps

Inline potentials

Designation	Communications power (U_L)
Supply voltage	7.5 V DC (via voltage jumper)
Current consumption	typ. 43 mA
	max. 60 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. 11 mA
	max. 18 mA

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Technical data

Inline potentials

Power consumption	typ. 587 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
Connection technology	2, 3, 4-wire
Note regarding the connection technology	shielded
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 bit two's complement
A/D conversion time	typ. 120 µs (per channel)
A/D converter resolution	16 bit
Process data update	32 ms (both channels with 3-wire technology)

Electrical isolation

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.

Standards and Regulations

Connection in acc. with standard	CUL
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Drawings

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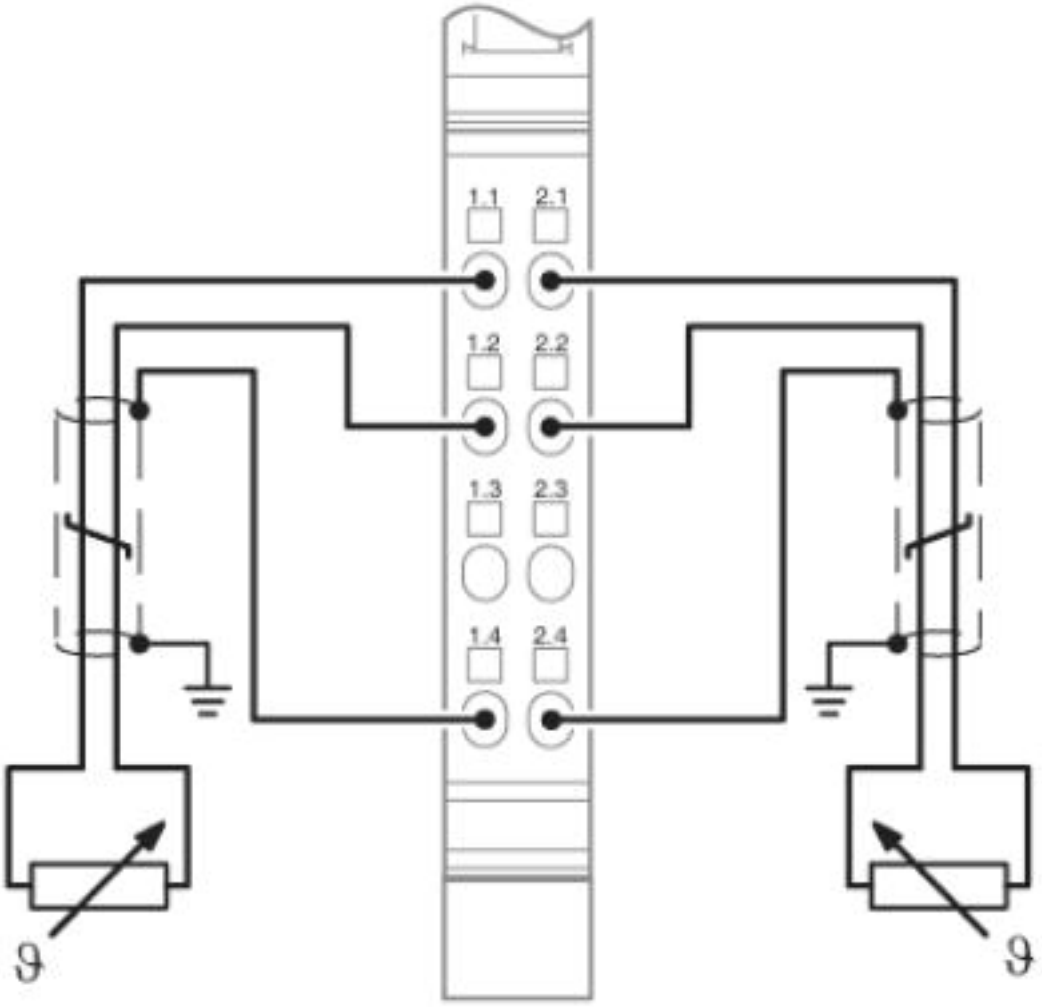
Connection diagram



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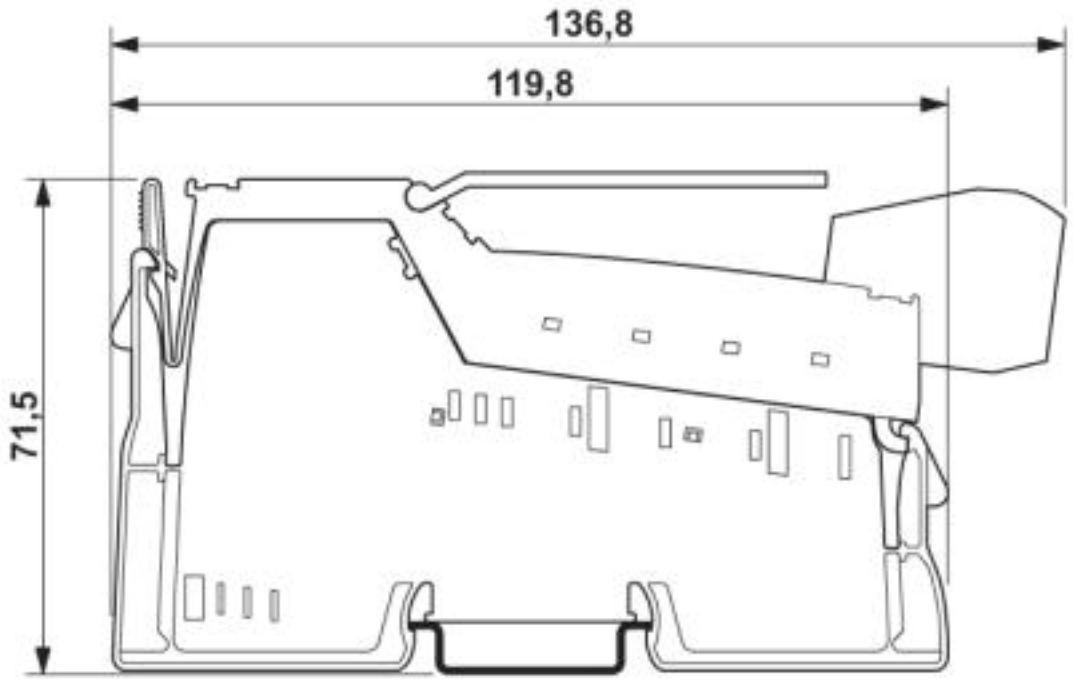
Dimensional drawing



Classifications

eCl@ss

eCl@ss 4.0	27250300
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

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Classifications

UNSPSC

UNSPSC 12.01	43201404
UNSPSC 13.2	32151602

Approvals

Approvals

Approvals

DNV GL / BSH / BV / LR / ABS / BSH / RINA / UL Recognized / EAC / UL Recognized / LR / ABS / DNV GL / BV / RINA / BSH / BSH / EAC

Ex Approvals

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

Approval details

DNV GL	https://approvalfinder.dnvgl.com/	TAA00000BN
BSH	http://www.bsh.de/de/index.jsp	658
BV	http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials	20977/B1 BV
LR	http://www.lr.org/en	08/20033
ABS	http://www.eagle.org/eagleExternalPortalWEB/	17-HG1621871-PDA
BSH	http://www.bsh.de/de/index.jsp	658
RINA	http://www.rina.org/en	ELE183315XG
UL Recognized	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324

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Approvals

EAC		EAC-Zulassung
UL Recognized	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
LR	http://www.lr.org/en	08/20033
ABS	http://www.eagle.org/eagleExternalPortalWEB/	17-HG1621871-PDA
DNV GL	https://approvalfinder.dnvgl.com/	TAA00000BN
BV	http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials	20977/B1 BV
RINA	http://www.rina.org/en	ELE183315XG
BSH	http://www.bsh.de/de/index.jsp	Anwenderhinweis
BSH	http://www.bsh.de/de/index.jsp	Anwenderhinweis
EAC		EAC-Zulassung

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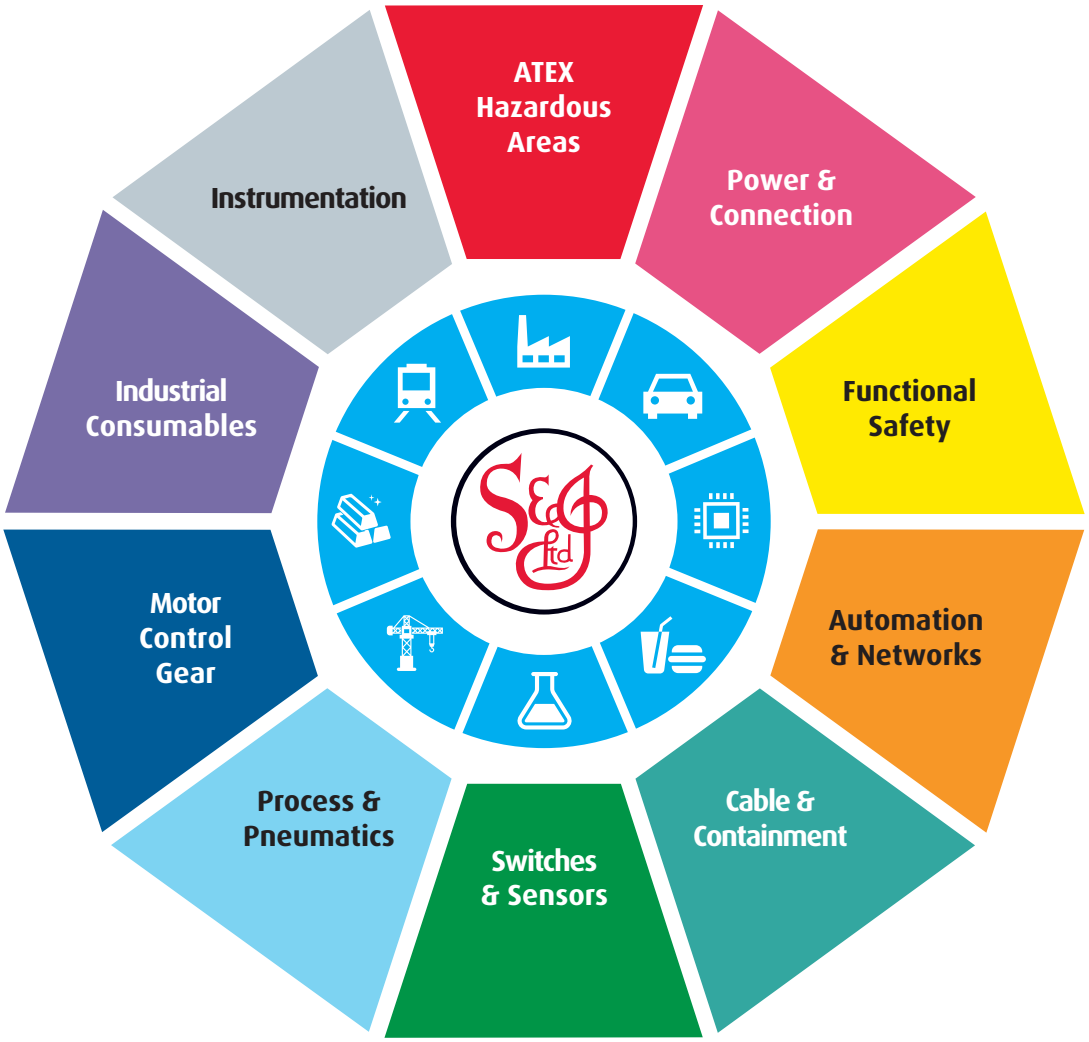

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