Inline function terminal - IB IL TEMP 2 RTD-XC-PAC - 2701217

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Inline analog input terminal, extreme conditions version, complete with accessories (connector plug and labeling field), 2 inputs, RTD (resistance temperature detector), 2, 3, 4-conductor 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
- Can be used under extreme ambient conditions
- Extended temperature range of -40°C ... +70°C (see “Tested successfully: use under extreme ambient conditions” in the data sheet)
- Coated PCBs

Key commercial data

Packing unit	1 pc
GTIN	4 046356 728829
Weight per Piece (excluding packing)	67.0 g
Custom tariff number	85389091
Country of origin	Germany
Note	Made to Order (non-returnable)

Technical data

Note

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

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
	-40 °C ... 70 °C (See “Tested successfully: use under extreme ambient conditions” in the data sheet.)

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Technical data

Ambient conditions

Ambient temperature (storage/transport)	-40 °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
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

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Technical data

Analog inputs

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

ETIM

ETIM 3.0	EC001596
ETIM 4.0	EC001599
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

Approvals

Approvals

UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approvals submitted

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Approvals

Approval details

UL Recognized

cUL Recognized

cULus Recognized

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

Inline function terminal - IB IL TEMP 2 RTD-XC-PAC - 2701217

Accessories

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