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 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.

Product Features

- 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
Weight per Piece (excluding packing)	100.0 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

Width	12.2 mm
Height	136.8 mm

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Technical data

Dimensions

Depth	71.5 mm

Ambient conditions

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

Mounting type	DIN rail
Net weight	67 g
Note on weight specifications	with connector

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

Standards and Regulations

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

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 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

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Classifications

UNSPSC

UNSPSC 13.2	43201404

Approvals

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UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

UL Recognized

cUL Recognized

cULus Recognized