

Inline function terminal - IB IL TEMP 2 UTH-PAC - 2861386

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Inline analog input terminal, complete with accessories (connector plug and labeling field), 2 inputs, TC (thermocouple), 2-wire 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

- Connection of thermocouples according to DIN EN 60584-1 and DIN 43710
- Absolute and differential temperature measurement (configurable)
- Measured value acquisition with 16-bit resolution
- Internal and external cold junction
- 15 mV to +85 mV linear input

Key commercial data

package_quantity	1
GTIN	4017918894320

Technical data

Note:

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

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Technical data

Ambient conditions

Degree of protection	IP20
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General

Weight	67 g
Note on weight specifications	With connector
Mounting type	DIN rail
Operating mode	Process data operation with 2 words
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Test section	5 V supply, incoming remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min
Test section	5 V supply, outgoing remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min
Test section	7.5 V supply (bus logics)/24 V supply (I/O) 500 V AC 50 Hz 1 min
Test section	7.5 V supply (bus logics)/24 V supply (I/O) 500 V AC 50 Hz 1 min
Test section	24 V analog supply (analog I/O) / functional earth ground 500 V AC 50 Hz 1 min
Test section	24 V supply (I/O) / functional earth ground 500 V AC 50 Hz 1 min

Interfaces

Name	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
Current consumption from U_L	typ. 43 mA
I/O supply voltage U_{ANA}	24 V DC
Current consumption from U_{ANA}	max. 18 mA
Current consumption from U_{ANA}	typ. 11 mA
Power consumption	typ. 590 mW

Analog inputs

Number of inputs	2
Input name	Analog UTH inputs
Description of the input	Inputs for thermocouples or linear voltage
Connection method	Spring-cage connection
Connection method	2-wire (shielded)
Sensor types that can be used (TC)	U, T, L, J, E, K, N, S, R, B, C, W, HK
Measuring principle	Successive approximation
Measured value representation	16 bits two's complement and other
A/D conversion time	< 120 μ s (per channel)
Resolution A/D	16 bit

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Analog inputs

Process data update	30 ms (For both channels)
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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 2.0	EC001431
ETIM 3.0	EC001596
ETIM 4.0	EC001596
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

UL Listed / cUL Listed / ATEX / cULus Listed / UL Recognized / cUL Recognized / GOST / LR / GL / BV / DNV / ABS / RINA / GL-SW / BSH / BSH / cULus Recognized / GL /

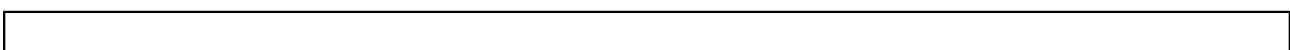
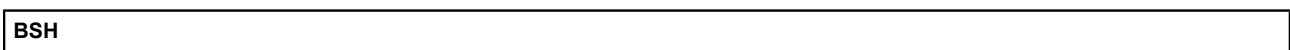
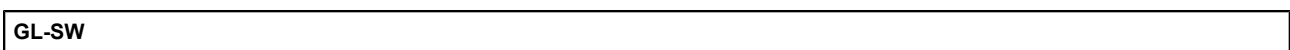
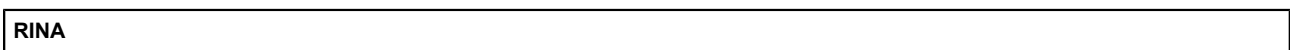
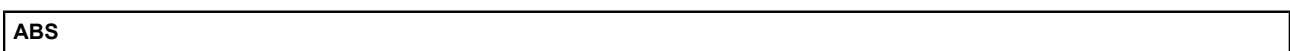
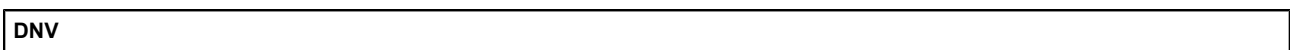
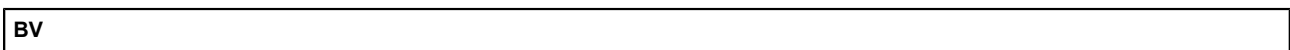
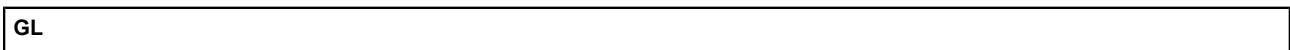
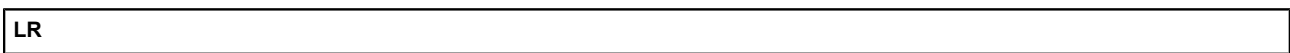
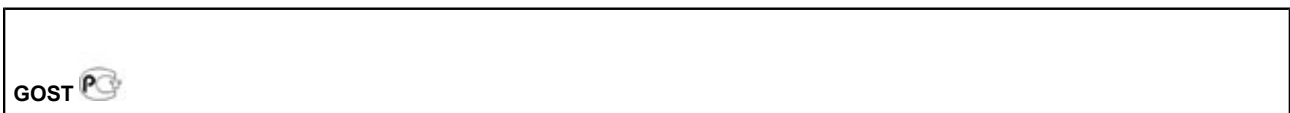
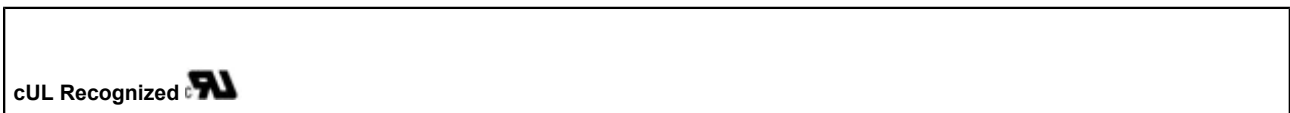
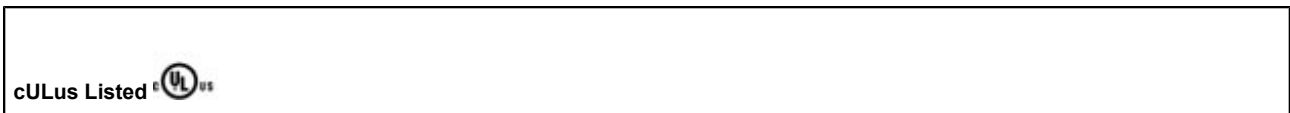
Approval details

UL Listed 

cUL Listed 
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approvals



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accessories

Plug

IB IL SCN 6-SHIELD-TWIN - 2740245



IB IL SCN-6 SHIELD - 2726353



Labeling panel

IB IL FIELD 2 - 2727501



Terminal marking

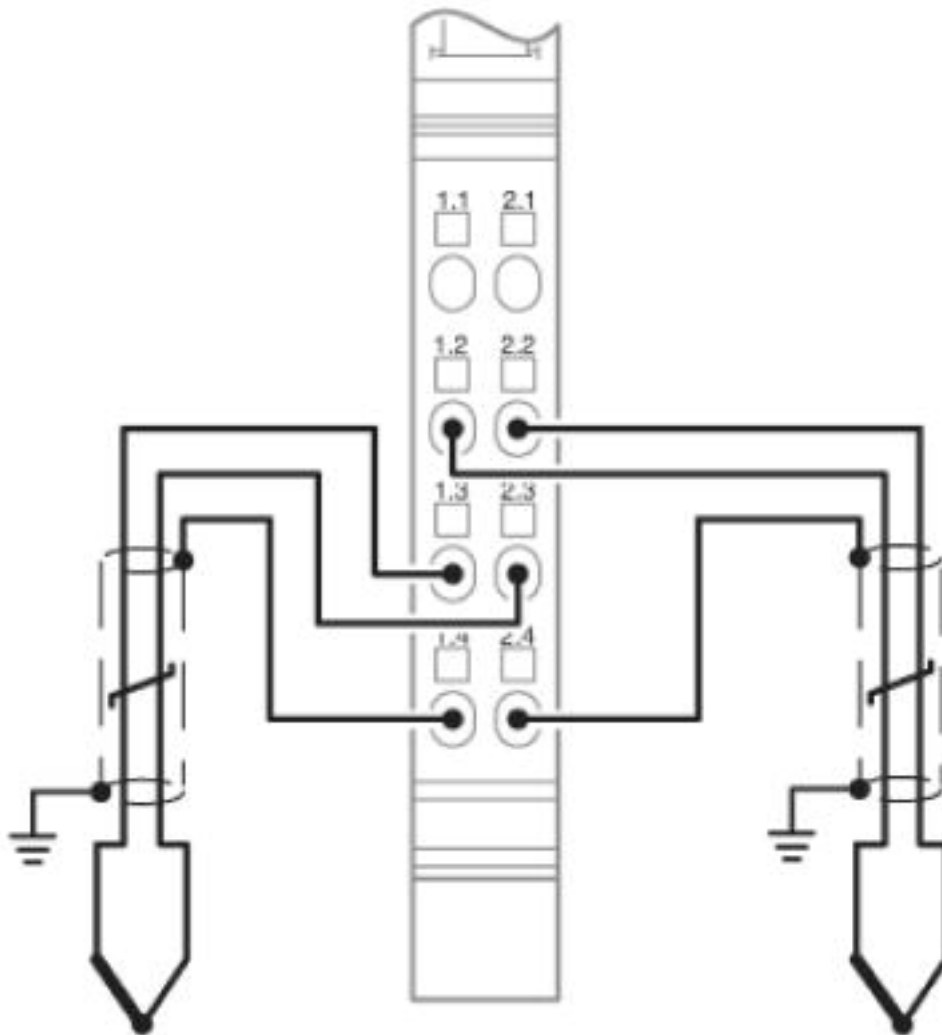
ESL 62X10 - 0809492



Drawings

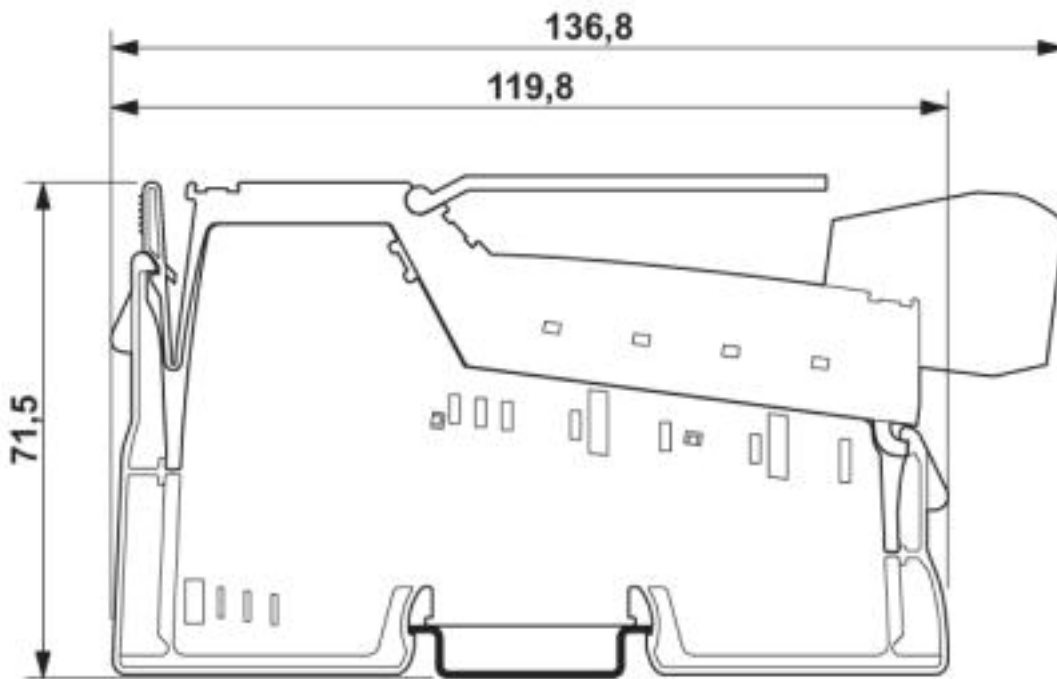
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Connection diagram



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Dimensioned drawing



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