

Inline function terminal - IB IL 24 TC-PAC - 2861360

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Inline thermistor terminal block, complete with accessories (connector and labeling field), 2-wire connection method

Your advantages

- Connection for a thermistor
- Integrated switching output
- Maximum permissible load current: 500 mA
- Diagnostic and status indicators

Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4017918894306
Weight per Piece (excluding packing)	88.760 g
Custom tariff number	85389099
Country of origin	Germany

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	119.8 mm
Depth	71.5 mm

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Technical data

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	-25 % ... 55 % (75% average, 85% seldom)
Permissible humidity (storage/transport)	-25 % ... 85 %
Air pressure (operation)	80 kPa ... 106 kPa (up to 2000 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
Color	green
Net weight	50 g
Note on weight specifications	without plug

Interfaces

Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kbps
Transmission physics	Copper

Inline potentials

Designation	Communications power (U_L)
Supply voltage	7.5 V DC (via voltage jumper)
Current consumption	max. 60 mA
Designation	Segment circuit supply (U_S)
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	max. 500 mA
Power consumption	max. 12 W (For $R = 12 \Omega$, $L = 1.2 \text{ H}/48 \Omega$)

Analog inputs

Number of inputs	1
Input name	Resistance sensor
Description of the input	Input for PTC thermistor
Connection method	Spring-cage connection
Connection technology	2-wire
Sensor types (RTD) that can be used	PTC thermistor according to DIN 44081 or DIN 44082
Linear resistance measuring range	2.7 k Ω ... 3.5 k Ω (Shutdown range, total resistance)
	50 Ω ... 2.25 k Ω (Operating range, total resistance)

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Technical data

Analog inputs

Nominal value of the current sources	max. 1.2 mA (For non-load voltage of < 8 V DC)
Input filter time	typ. 10 ms

Analog outputs

Number of outputs	1
Connection method	Spring-cage connection
Connection technology	2-wire
Type of protection	Short-circuit and overload proof
Current output signal	500 mA (per output)
Voltage output signal	24 V DC ($U_S - 1$ V)
Load/output load voltage output	< 2.7 k Ω (Total resistance for output signal HIGH)

Electrical isolation

Test section	5 V supply, incoming remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min.
	5 V supply, outgoing remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min.
	7.5 V supply (bus logics)/24 V analog supply (analog I/O) 500 V AC 50 Hz 1 min.
	24 V analog supply (analog I/O) / functional earth ground 500 V AC 50 Hz 1 min.
	Thermistor / all other areas 1200 V AC 50 Hz 1 min.

Standards and Regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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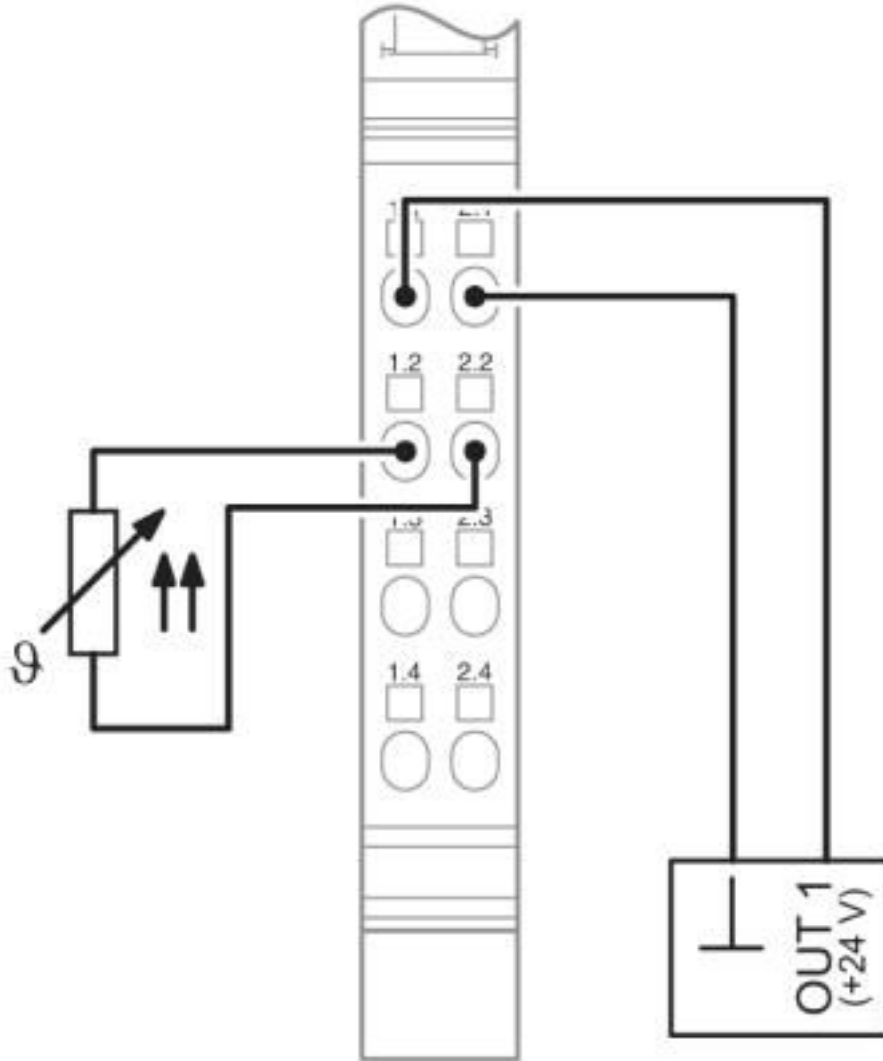
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

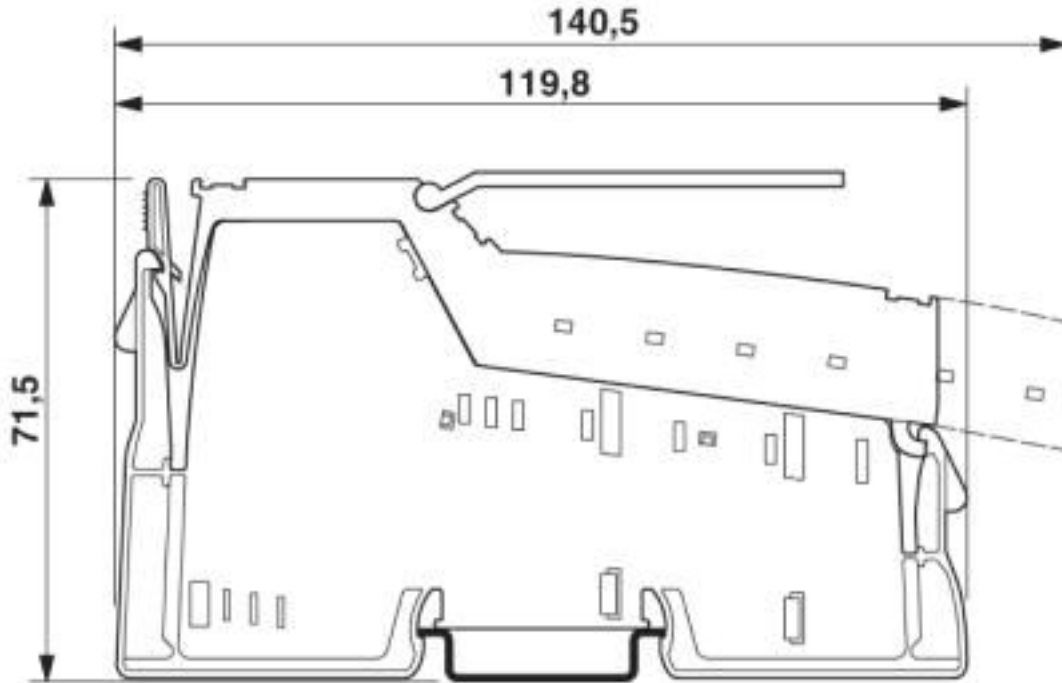
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Connection diagram



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Dimensional drawing



Classifications

eCl@ss

eCl@ss 10.0.1	27242601
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

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Classifications

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC		EAC-Zulassung
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Accessories

Accessories

Terminal marking

Insert strip - ESL 62X10 - 0809492



Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems: Laser printer, mounting type: insert, lettering field size: 62 x 10 mm, Number of individual labels: 72

