

## 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	 4 017918 894306
GTIN	4017918894306
Weight per Piece (excluding packing)	50.000 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
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#### Dimensions

Width	12.2 mm
Height	119.8 mm
Depth	71.5 mm

#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C

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## Technical data

### Ambient conditions

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 $\Omega$ ... 3.5 k $\Omega$ (Shutdown range, total resistance)
	50 $\Omega$ ... 2.25 k $\Omega$ (Operating range, total resistance)
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

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### Technical data

#### Analog outputs

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 $\Omega$ (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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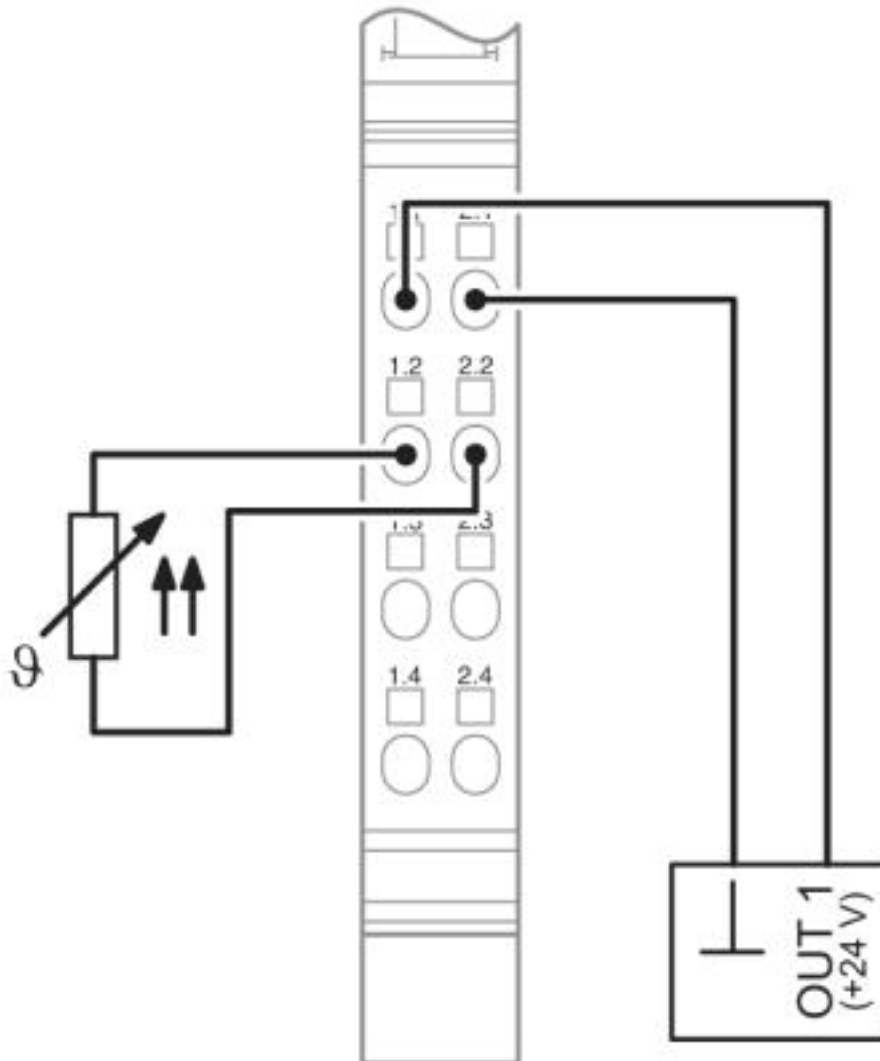
#### Environmental Product Compliance

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

### Drawings

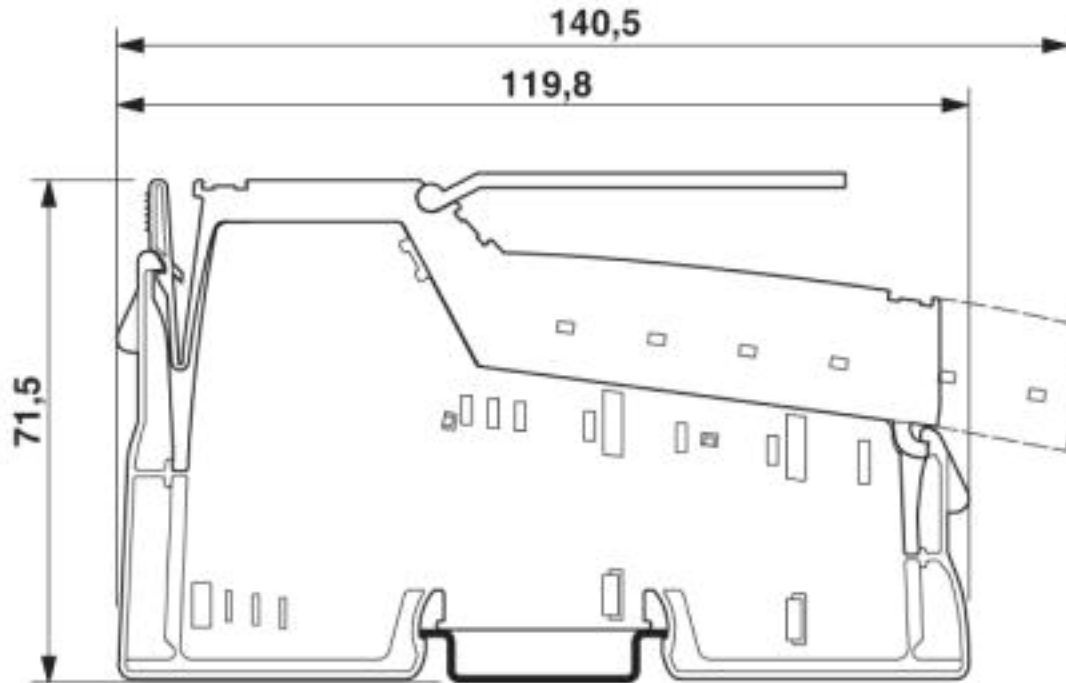
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Connection diagram



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

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
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

## Approvals

### Approvals

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Approvals

EAC

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Ex Approvals

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### 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

