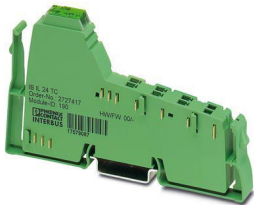


# IB IL 24 TC - Inline function terminal

2727417

<https://www.phoenixcontact.com/us/products/2727417>

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Inline thermistor terminal, without accessories, 2-conductor connection technology

## Product description

The terminal is designed for use within an Inline station. It is used to evaluate PTC thermistors according to DIN 44081 and DIN 44082. This terminal can be used to implement full motor protection.

## Commercial data

Item number	2727417
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI143
GTIN	4017918185558
Weight per piece (including packing)	65.3 g
Weight per piece (excluding packing)	65.3 g
Customs tariff number	85389091
Country of origin	DE

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## Technical data

### Product properties

Type	modular
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### System properties

#### Programming data

Length code (hex)	41
ID code (dec.)	190
Length code (dec)	65
Process data channel	4 bit
Input address area	4 bit
Output address area	0 Byte
Parameter channel (PCP)	0 Byte
Register length (bus)	4 bit

#### Fieldbus data telegram

Required parameter data	1 Byte
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### Electrical properties

#### Potentials

Power consumption	max. 12 W (For R = 12 $\Omega$ , L = 1.2 H/48 $\Omega$ )
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#### Potentials: Communications power ( $U_L$ )

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 60 mA

#### Potentials: 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 draw	max. 500 mA

#### Electrical isolation/isolation of the voltage ranges

Test voltage: 7.5 V supply (bus logics)/24 V analog supply (analog I/O)	500 V AC, 50 Hz, 1 min
Test voltage: 24 V analog supply (analog I/O)/functional ground	500 V AC, 50 Hz, 1 min
Test voltage: Thermistor / all other areas	1200 V AC, 50 Hz, 1 min

### Input data

#### Analog:

Input name	Resistance sensor
Description of the input	Input for PTC thermistor
Number of inputs	1
Connection method	Spring-cage connection

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Connection technology	2-conductor
Sensor types (RTD) that can be used	PTC thermistor according to DIN 44081 or DIN 44082
Input filter time	typ. 10 ms
Nominal value of the current sources	max. 1.2 mA (for open-circuit voltage of < 8 V DC)
Linear resistance measuring range	2.7 kΩ ... 3.5 kΩ (Shutdown range, total resistance) 50 Ω ... 2.25 kΩ (Operating range, total resistance)

## Output data

Analog:

Connection method	Spring-cage connection
Connection technology	2-conductor
Number of outputs	1
Protective circuit	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 kΩ (Total resistance for output signal HIGH)

## Connection data

Inline connector

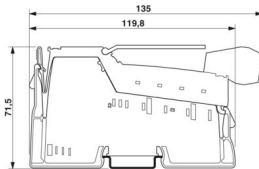
Connection method	Spring-cage connection
Conductor cross-section, rigid	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 16

## Interfaces

Inline local bus

Number of interfaces	2
Connection method	Inline data jumper
Transmission speed	500 kbps

## Dimensions

Dimensional drawing	
Width	12.2 mm
Height	135 mm
Depth	71.5 mm

## Material specifications

Color	green
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## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Degree of protection	IP20
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)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	-25 % ... 55 % (75% average, 85% seldom)
Permissible humidity (storage/transport)	-25 % ... 85 %

## Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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## Mounting

Mounting type	DIN rail mounting
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## Drawings

Dimensional drawing

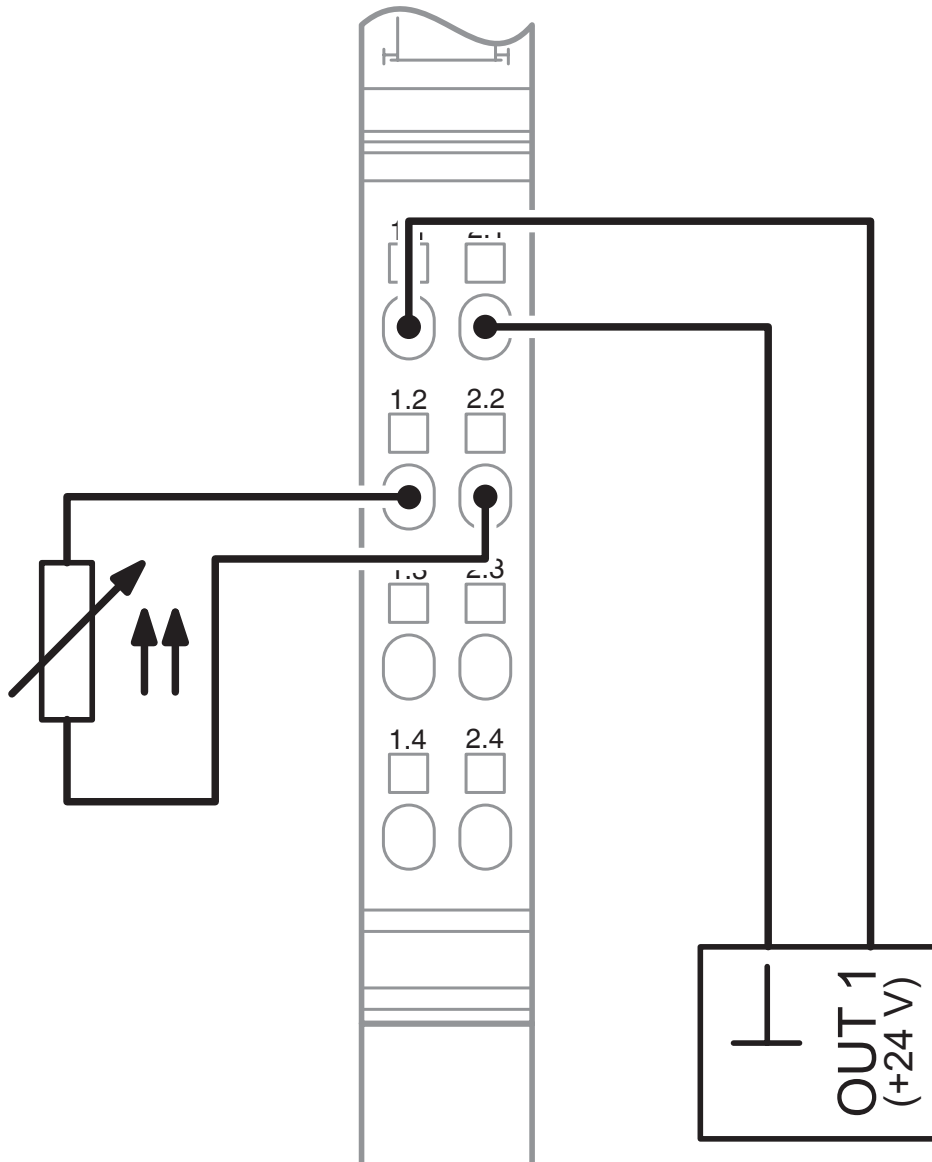


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Connection diagram



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## Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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