

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

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

Why buy this product

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

Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 894306

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
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

Net weight	50 g
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Technical data

General

Note on weight specifications	Without plug
Mounting type	DIN rail

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
Segment circuit supply U_S	24 V DC
Current consumption from U_S	max. 500 mA
I/O supply voltage U_{ANA}	24 V DC
Current consumption from U_{ANA}	0 A DC
	0 A DC
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
	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)
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
	2-wire
Type of protection	Short-circuit and overload proof
Current output signal	500 mA (per output)
Voltage output signal	24 V DC ($U_S - 1 \text{ V}$)
Load/output load voltage output	< 2.7 k Ω (Total resistance for output signal HIGH)

Standards and Regulations

Test section	5 V supply, incoming remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min.
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Standards and Regulations

	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.
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 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

Approvals

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EAC

Ex Approvals

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Approvals

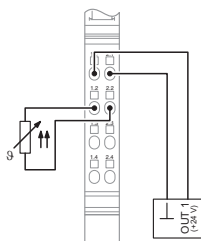
Approvals submitted

Approval details

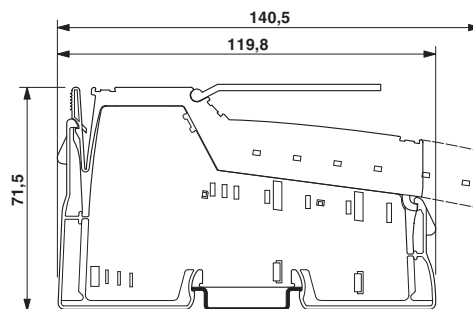
EAC

Drawings

Connection diagram



Dimensional drawing



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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>