

IB IL 24 TC-PAC - Analog module



2861360

<https://www.phoenixcontact.com/us/products/2861360>

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Inline thermistor terminal, complete with accessories (connector and marking field), 2-conductor connection technology



Your advantages

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

Commercial data

Item number	2861360
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01
Product key	DRI143
Catalog page	Page 141 (C-6-2019)
GTIN	4017918894306
Weight per piece (including packing)	95.1 g
Weight per piece (excluding packing)	50 g
Customs tariff number	85389099
Country of origin	DE

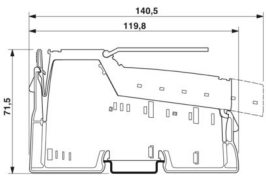
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Technical data

Dimensions

Dimensional drawing	
Width	12.2 mm
Height	119.8 mm
Depth	71.5 mm

Interfaces

Inline local bus

Connection method	Inline data jumper
Transmission speed	500 kbps
Transmission physics	Copper

System properties

Module

ID code (dec.)	190
ID code (hex)	BE
Length code (hex)	41
Length code (dec)	65
Process data channel	4 bit
Input address area	4 bit
Output address area	0 Byte
Register length	4 bit
Required parameter data	1 Byte
Required configuration data	4 Byte

Input data

Analog

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

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Nominal value of the current sources	max. 1.2 mA (For non-load voltage of < 8 V DC)
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)

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 k Ω (Total resistance for output signal HIGH)

Product properties

Type	modular
Product type	I/O component
Product family	Inline

Electrical properties

Potentials

Power consumption	max. 12 W (For R = 12 Ω , L = 1.2 H/48 Ω)
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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: 5 V supply, incoming remote bus/7.5 V supply (bus logics)	500 V AC, 50 Hz, 1 min.
Test voltage: 5 V supply, outgoing remote bus/7.5 V supply (bus logics)	500 V AC, 50 Hz, 1 min.
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.

Connection data

Connection technology

Connection name	Inline connector
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Conductor connection

Connection method	Spring-cage connection
Conductor cross section rigid	0.08 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.08 mm ² ... 1.5 mm ²
Conductor cross section AWG	28 ... 16
Stripping length	8 mm

Inline connector

Connection method	Spring-cage connection
Conductor cross section, rigid	0.08 mm ² ... 1.5 mm ²
Conductor cross section, flexible	0.08 mm ² ... 1.5 mm ²
Conductor cross section AWG	28 ... 16
Stripping length	8 mm

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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Classifications

ECLASS

ECLASS-11.0	27242601
ECLASS-12.0	27242601
ECLASS-13.0	27242601

ETIM

ETIM 9.0	EC001596
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UNSPSC

UNSPSC 21.0	32151600
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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