IB IL 24 TC-PAC - Analog module

2861360

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Inline thermistor terminal, complete with accessories (connector and marking field), 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.

Your advantages

- Connection for a thermistor
- Integrated switching output
- Maximum permissible load current: 500 mA

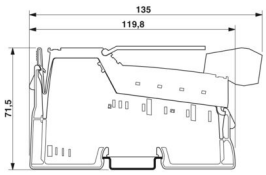
Commercial data

Item number	2861360
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR01

Product key	DRI143
GTIN	4017918894306
Weight per piece (including packing)	83 g
Weight per piece (excluding packing)	50 g
Customs tariff number	85389099
Country of origin	DE

Technical data

Dimensions

Dimensional drawing	
Width	12.2 mm
Height	135 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

Notes

Note on application	Only for industrial use
Note on application	As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA.

Mounting

Mounting type	DIN rail mounting

Material specifications

Color (Housing)	green (RAL 6021)

Interfaces

Inline local bus

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

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 (PROFIBUS)

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
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:

Output name	Switching output
Connection method	Spring-cage connection
Connection technology	2-conductor
Number of outputs	1
Protective circuit	Short-circuit protection
Current output signal	500 mA
Voltage output signal	24 V DC (U_S - 1 V)
Load/output load voltage output	< 2.7 kΩ (Total resistance for output signal HIGH)
	> 3.5 kΩ ()

Product properties

Product type	I/O component
Product family	Inline
Type	modular
Installation location	Control cabinet
Scope of supply	including Inline connector and labeling field
Operating mode	Process data operation with 4 bits
Special properties	The product is being prepared for compliance with the Cyber Resilience Act (CRA)

Insulation characteristics

Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)

Electrical properties

Maximum power dissipation for nominal condition	0.6 W

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 supply (I/O)	500 V AC, 50 Hz, 1 min
Test voltage: 24 V supply (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

Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm² ... 1.5 mm²
Conductor cross-section, flexible	0.08 mm² ... 1.5 mm²
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)	70 kPa ... 106 kPa (up to 3000 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)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)

Mechanical test

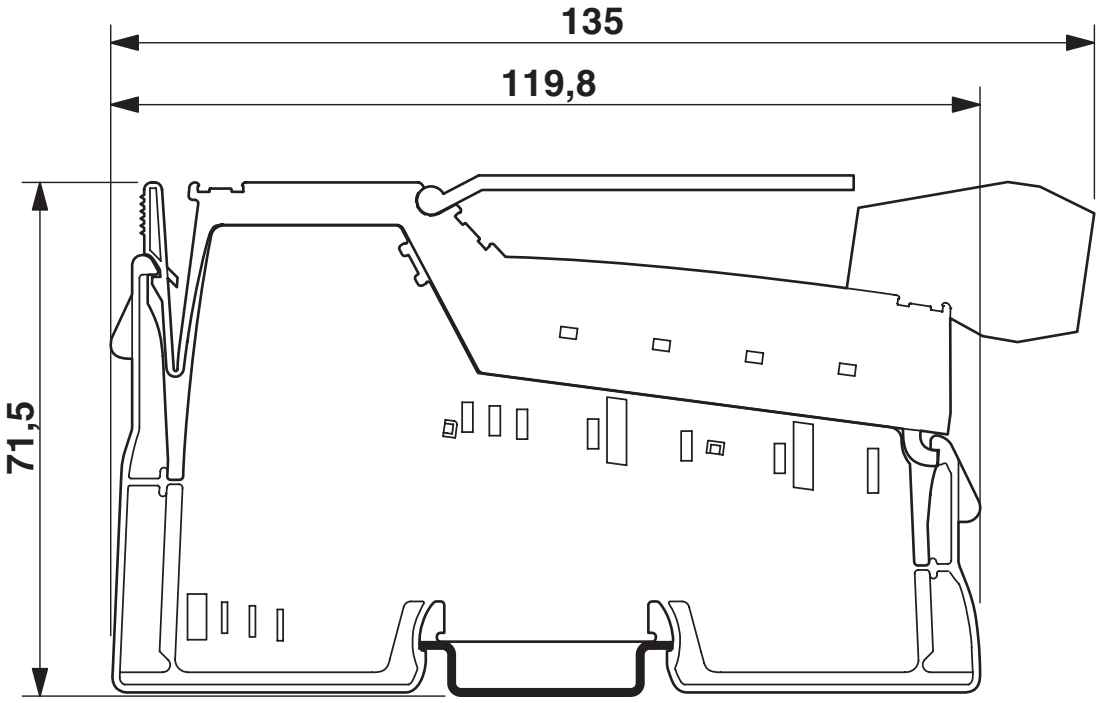
Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	5g
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	25g

Standards and regulations

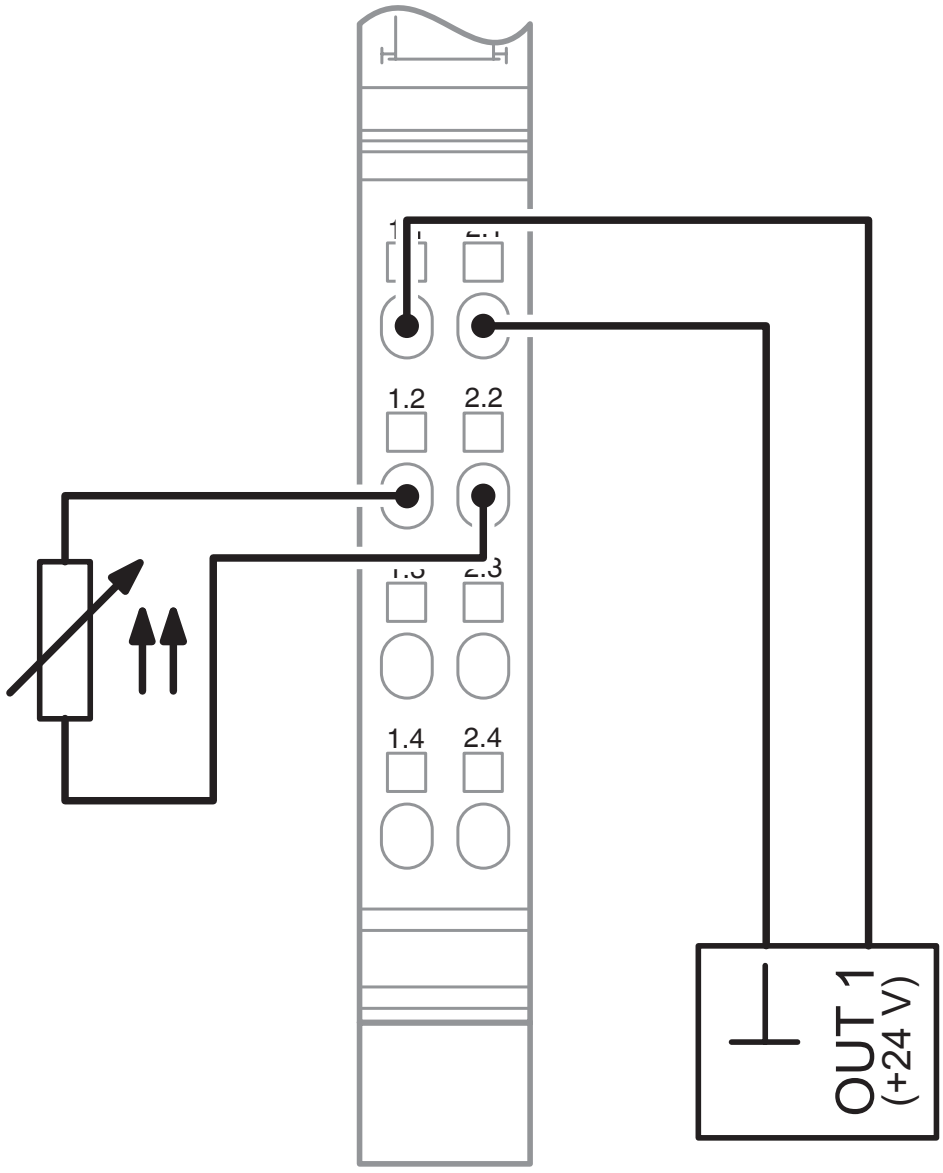
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Drawings

Dimensional drawing



Connection diagram



Connection example

Classifications

ECLASS

ECLASS-13.0	27242601
ECLASS-15.0	27242601

ETIM

ETIM 10.0	EC001596

UNSPSC

UNSPSC 21.0	32151600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	fd9be18a-16a8-4c03-b96c-8d8294d6c25b

EF3.1 Climate Change

CO2e kg	2.516 kg CO2e

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