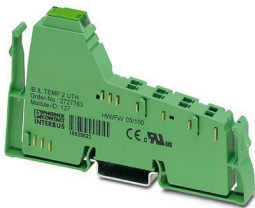


IB IL TEMP 2 UTH - Inline function terminal

2727763

<https://www.phoenixcontact.com/us/products/2727763>

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Inline analog input terminal, without accessories, 2 inputs, TC (thermocouple), 2-conductor connection technology

Product description

The terminal is designed for use within an Inline station. This terminal can be used to acquire signals from standard thermocouples. It supports 13 different types of thermocouples according to DIN EN 60584-1 and DIN 43710, as well as a linear voltage input of -15 mV to +85 mV.

Commercial data

Item number	2727763
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRI143
GTIN	4017918168230
Weight per piece (including packing)	76.2 g
Weight per piece (excluding packing)	76.2 g
Customs tariff number	85389091
Country of origin	DE

Technical data

Product properties

Type	modular
	Inline
Operating mode	Process data operation with 2 words

System properties

Programming data

Length code (hex)	02
ID code (dec.)	127
Length code (dec)	02
Process data channel	32 bit
Input address area	4 Byte
Output address area	4 Byte
Parameter channel (PCP)	0 Byte
Register length (bus)	32 bit

Fieldbus data telegram

Required parameter data	6 Byte
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Electrical properties

Potentials

Power consumption	typ. 590 mW
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Potentials: Communications power (U_L)

Supply voltage	7.5 V DC (via voltage jumper)
Current draw	max. 60 mA
	typ. 43 mA

Potentials: Supply of analog modules (U_{ANA})

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. 18 mA
	typ. 11 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: 7.5 V supply (bus logics)/24 V supply (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

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

Analog:

Input name	Analog UTH inputs
Description of the input	Inputs for thermocouples or linear voltage
Number of inputs	2 (typ. ± 0.60 °C)
Connection method	Spring-cage connection
Connection technology	2-conductor (shielded)
A/D conversion time	< 120 μ s (per channel)
A/D converter resolution	16 bit
Sensor types that can be used (TC)	U, T, L, J, E, K, N, S, R, B, C, W, HK
Measuring principle	Successive approximation
Measured value representation	16 bits two's complement and other
Process data update	max. 30 ms (For both channels)

Connection data

Inline connector

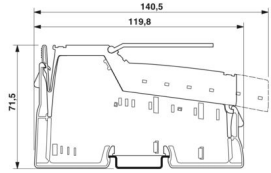
Connection method	Spring-cage connection
Conductor cross-section, rigid	0.08 mm ² ... 1.5 mm ²
Conductor cross-section, flexible	0.08 mm ² ... 1.5 mm ²
Conductor cross-section AWG	28 ... 16

Interfaces

Inline local bus

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

Dimensions

Dimensional drawing	
Width	12.2 mm
Height	119.8 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)	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 % (according to DIN EN 61131-2)
Permissible humidity (storage/transport)	10 % ... 95 % (according to DIN EN 61131-2)

Mounting

Mounting type	DIN rail mounting
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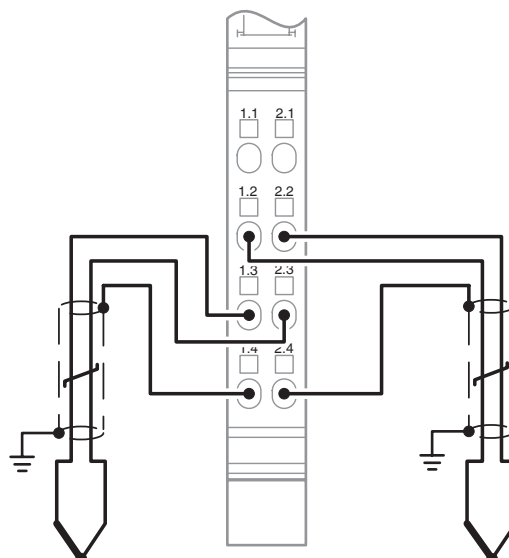
<https://www.phoenixcontact.com/us/products/2727763>

Drawings

Dimensional drawing



Connection diagram



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Environmental product compliance

EU REACH SVHC

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