

2810418

https://www.phoenixcontact.com/us/products/2810418

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Pt 100 temperature transducer, configurable via DIP switch, selection between 2, 3, 4-conductor technology; input: 0...100 °C, 0...150 °C, 0...200 °C, 0...300 °C, -50...+50 °C, -50...100 °C, -50... 150 °C, -50...250 °C, output signal 0...10 V

Commercial data

Item number	2810418
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C401
Product key	CK1821
GTIN	4017918118280
Weight per piece (including packing)	139.9 g
Weight per piece (excluding packing)	117.9 g
Customs tariff number	85437090
Country of origin	DE



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Technical data

Notes

Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area
Product properties	
Product type	Temperature transmitter
No. of channels	1
Electrical properties	
Alignment span	± 5 %
Alignment zero	± 5 %
Test voltage power supply/signal	750 V AC (50 Hz, 60 s)
Step response (10-90%)	11 ms
Maximum temperature coefficient	≤ 0.02 %/K
Maximum transmission error	≤ 0.4 % (of final value)
Supply	
Supply voltage range	20 V DC 30 V DC
Max. current consumption	20 mA

Input data

Configurable/programmable	Yes, unconfigured
Sensor types (RTD) that can be used	Pt 100 (IEC 60751/EN 60751)
Temperature measuring range	0 °C 300 °C (0 100/150/200/300)
	-50 °C 250 °C (-50 50/100/150/250)
Sensor type:	-50 °C 50 °C
	-50 °C 100 °C
	-50 °C 150 °C
	-50 °C 250 °C
	0 °C 100 °C
	0 °C 150 °C
	0 °C 200 °C
	0 °C 300 °C
Sensor input current	approx. 1 mA
Connection technology	2-, 3-, 4-conductor
Connection method	Pluggable screw connection



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Signal: Voltage output

Configurable/programmable	Yes, unconfigured
Voltage output signal	0 V 10 V
Max. voltage output signal	15 V
Output voltage with wire break	> 11 V
Load/output load voltage output	≥ 10 kΩ

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	М3
Conductor cross section rigid	0.2 mm ² 2.5 mm ²
Conductor cross section flexible	0.2 mm ² 2.5 mm ²
Conductor cross section AWG	24 14

Dimensions

Dimensional drawing	
Width	17.5 mm
Height	99 mm
Depth	114.5 mm

Material specifications

Color	green (RAL 6021)
Housing material	Polyamide PA non-reinforced

Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP20
Ambient temperature (operation)	-20 °C 65 °C

Approvals

CE	
Certificate	CE-compliant
UL, USA/Canada	
Identification	cULus



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Mounting

Mounting position

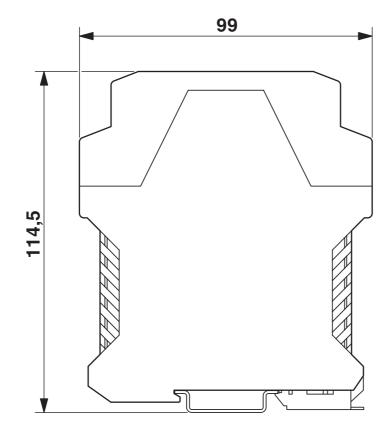
any



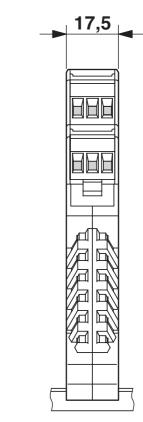
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Drawings



Dimensional drawing







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Classifications

ECLASS

ECLASS-11.0

27210129



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Environmental product compliance

China	RoHS

Environmentally Friendly Use Period = 50 years For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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