

2810340

https://www.phoenixcontact.com/us/products/2810340

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MCR temperature transducer, for Pt 100, 2-, 3-, 4-conductor technology; input: 0 ... 100° C, 0 ... 150° C, 0 ... 250° C, 0 ... 250° C, 0 ... 250° C, 0 ... 250° C, output signal: 0 ... 10 V

Your advantages

- · Wire-break detection
- · ZERO/SPAN adjustment
- · Temperature range can be set via DIP switches
- With electrically isolated supply voltage as an option

Commercial data

Item number	2810340
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	CK1821
Catalog page	Page 138 (C-7-2013)
Weight per piece (including packing)	137.9 g
Weight per piece (excluding packing)	137.3 g
Customs tariff number	85437090
Country of origin	DE



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Technical data

Notes

	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 %
Limit frequency (3 dB)	30 Hz
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

Signal

Temperature
Yes
Pt 100 (IEC 60751/EN 60751)
0 °C 300 °C (0 100/150/200/300)
-50 °C 250 °C (-50 50/100/150/250)
-50 °C 50 °C (fixed setting)
-50 °C 100 °C (fixed setting)
-50 °C 150 °C (fixed setting)
-50 °C 250 °C (fixed setting)
0 °C 100 °C (fixed setting)
0 °C 150 °C (fixed setting)
0 °C 200 °C (fixed setting)
0 °C 300 °C (fixed setting)
approx. 1 mA



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Connection technology	2-, 3-, 4-conductor
Connection method	Pluggable screw connection

Output data

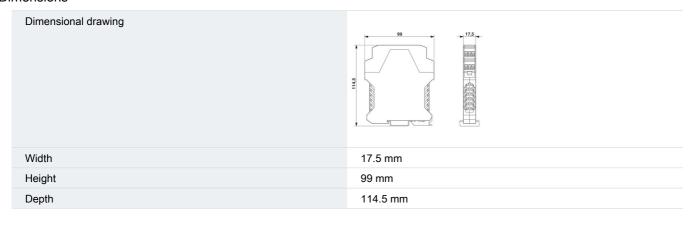
Signal: Voltage output

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	M3
Conductor cross section rigid	0.2 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 14

Dimensions



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

02		
Certificate	CE-compliant CE-compliant	



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UL, USA/Canada			
Identification		UL 508 Recognized	
Mounting			
Mounting position		any	

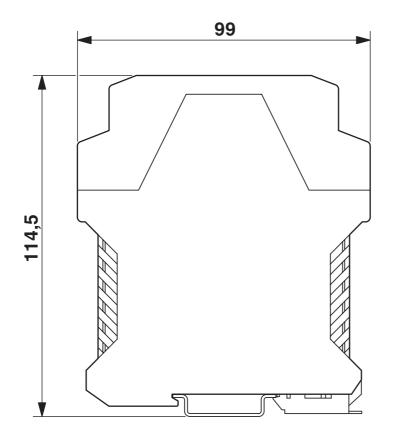


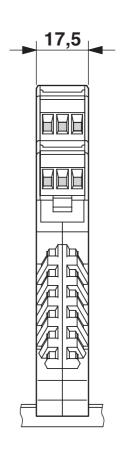
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Drawings

Dimensional drawing



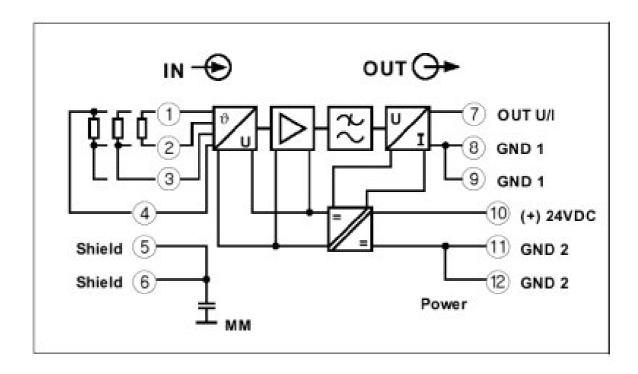




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Circuit diagram





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Classifications

ECLASS

ECLASS-11.0 27210129



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Environmental product compliance

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.)	No substance above 0.1 wt%

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