

2810337

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MCR temperature transducer, for Pt 100, 2-, 3-, 4-conductor technology; input: $0 \dots 100^{\circ}$ C, $0 \dots 150^{\circ}$ C, $0 \dots 200^{\circ}$ C, $0 \dots 300^{\circ}$ C, $-50 \dots +50^{\circ}$ C, $-50 \dots 100^{\circ}$ C, $-50 \dots 150^{\circ}$ C, $-50 \dots 250^{\circ}$ C, output signal: $0(4) \dots 20$ mA, electrically isolated auxiliary power

Your advantages

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

Commercial data

Item number	2810337
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	DK1XXX
Weight per piece (including packing)	141.1 g
Weight per piece (excluding packing)	140.4 g
Customs tariff number	85437090
Country of origin	DE



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Technical data

Notes

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EMC note	EMC: class A product, see manufacturer's declaration in the
	download area

Product properties

Product type	Temperature transmitter
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Electrical properties

Alignment span	± 5 %
Alignment zero	± 5 %
Limit frequency (3 dB)	30 Hz
Maximum power dissipation for nominal condition	1.76 mW
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	60 mA

Input data

Signal

Input signal	Temperature
Measurement	
Configurable/programmable	Yes
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)
Temperature measuring range: Pt 100	-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)
Sensor input current	approx. 1 mA



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

Output data

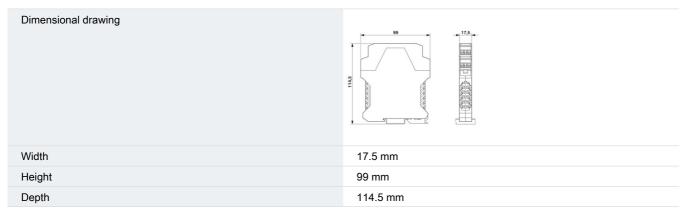
Signal: Current output

Current output signal	4 mA 20 mA
	0 mA 20 mA
Max. current output signal	30 mA
Output current with wire break	> 22 mA
Load/output load current output	≤ 500 Ω

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



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	Certificate	CE-compliant CE-compliant
L	IL, USA/Canada	
	Identification	UL 508 Recognized
Mounting		
	Mounting position	any

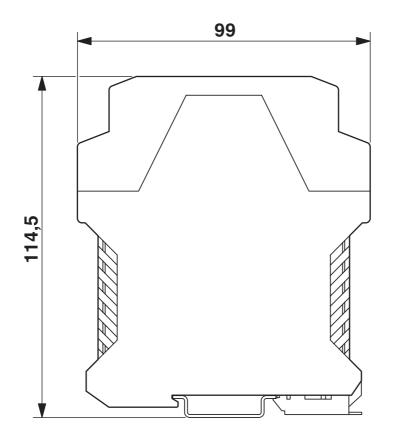


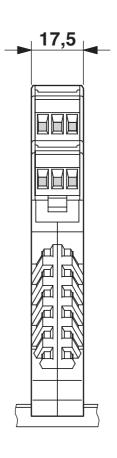
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Drawings

Dimensional drawing



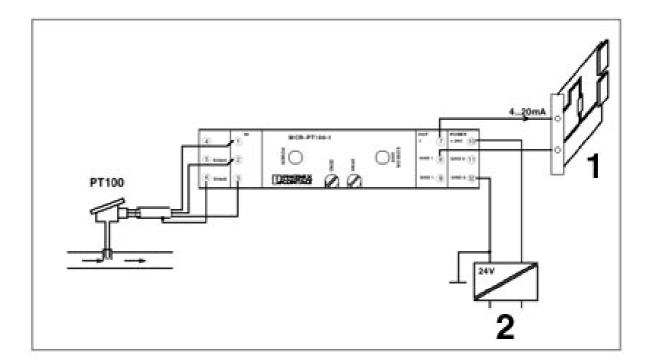




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Application drawing



Application example: temperature measurement in 3-conductor technology

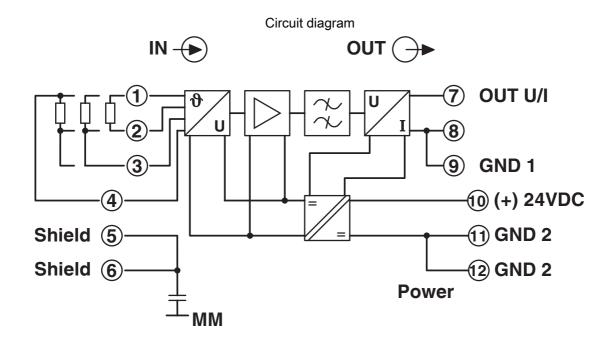
1 = controller

2 = mains voltage



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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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