

Resistance thermometer measuring transducer - MCR-PT100-I - 2810353

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MCR temperature transducer for Pt 100, 2, 3 or 4-wire system, 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(4)...20 mA

The figure shows version MCR-PT100-I-DC

Your advantages

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



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4017918101398
Weight per Piece (excluding packing)	138.500 g
Custom tariff number	85437090
Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	17.5 mm
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Dimensions

Height	99 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 65 °C
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Input data

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

Output data

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

Power supply

Supply voltage range	20 V DC ... 30 V DC
Max. current consumption	45 mA

General

Maximum transmission error	≤ 0.4 % (of final value)
Maximum temperature coefficient	≤ 0.02 %/K
Limit frequency (3 dB)	30 Hz
Alignment zero	± 5 %
Alignment span	± 5 %
Step response (10-90%)	11 ms
Test voltage power supply/signal	750 V AC (50 Hz, 1 min.)
Color	green
Housing material	Polyamide PA non-reinforced
Mounting position	any

Standards and Regulations

Connection in acc. with standard	CUL
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Standards and Regulations

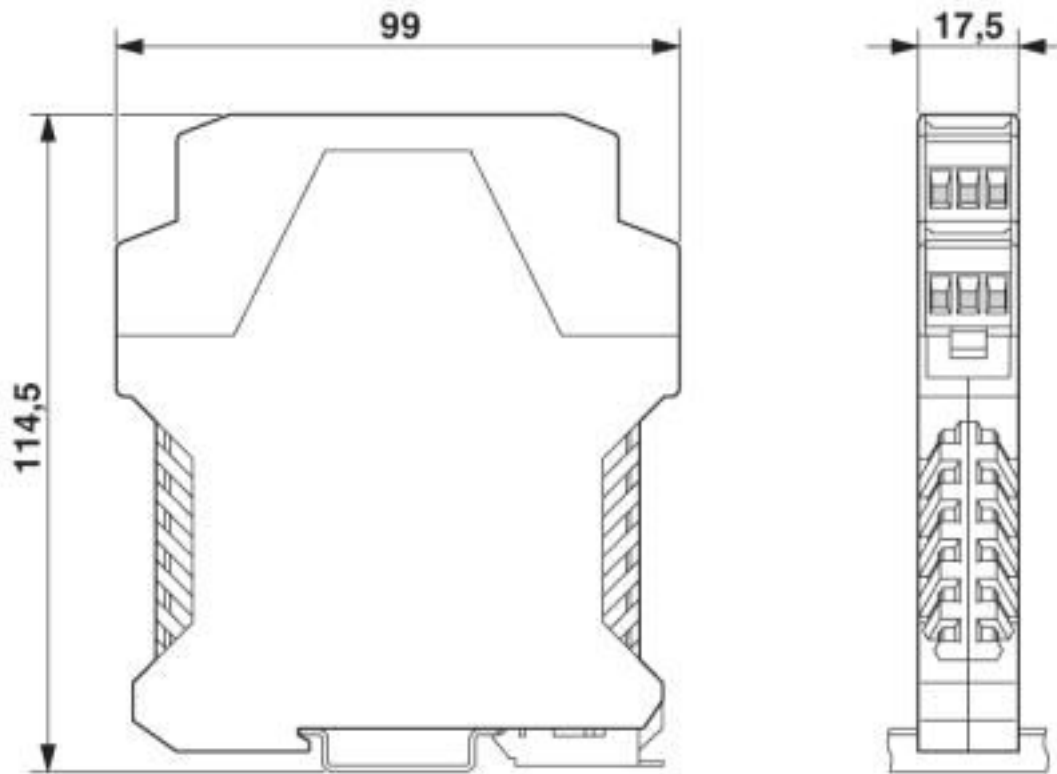
Conformance	CE-compliant
UL, USA/Canada	UL 508 Recognized

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Dimensional drawing



Classifications

eCl@ss

eCl@ss 4.0	27200206
eCl@ss 4.1	27200206
eCl@ss 5.0	27200206

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Classifications

eCl@ss

eCl@ss 5.1	27200206
eCl@ss 6.0	27200206
eCl@ss 7.0	27200206
eCl@ss 8.0	27371503
eCl@ss 9.0	27371503

ETIM

ETIM 2.0	EC001446
ETIM 3.0	EC001446
ETIM 4.0	EC001446
ETIM 5.0	EC002568

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008