

Resistance thermometer measuring transducer - MCR-PT100-U - 2810340

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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...150°C, -50...150°C, -50...250°C, output signal 0...10 V

The figure shows version MCR-PT100-I-DC

Your advantages

- ☑ Open circuit detection
- ☑ ZERO/SPAN adjustment
- With electrically isolated supply voltage as an option



Key Commercial Data

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Packing unit	1 pc	
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Technical data

Note

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

Dimensions

Width	17.5 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

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

Input data

Configurable/programmable	Yes
Sensor types (RTD) that can be used	Pt 100 (IEC 60751/EN 60751)



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Technical data

Input data

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	Voltage output
Voltage output signal	0 V 10 V
Max. output voltage	15 V
Output voltage with wire break	> 11 V
Load/output load voltage output	\geq 10 k Ω

Power supply

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

Connection data

Connection method	Pluggable screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Stripping length	8 mm
Screw thread	M3

General

No. of channels	1
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
Conformance	CE-compliant
UL, USA/Canada	UL 508 Recognized

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Technical data

Standards and Regulations

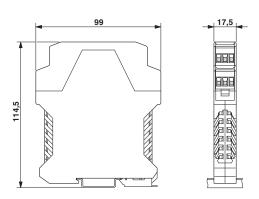
Connection in acc. with standard	CUL
Conformance	CE-compliant
UL, USA/Canada	UL 508 Recognized

Environmental Product Compliance

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

Drawings

Dimensional drawing



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