Temperature measuring transducer - MCR-SL-PT100-LP-I - 2864558

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MCR temperature transducers: programmable loop-powered temperature transducers for Pt 100 resistance thermometers

Product Features

- Freely programmable via MCR/PI-CONF-WIN
- Two-wire transmitter for Pt 100 resistance thermometers

Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	106.4 g
Custom tariff number	85437090
Country of origin	Germany

Technical data

Dimensions

Width	12.5 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Degree of protection	IP20

Input data

Configurable/programmable	Yes, programmable
Sensor types (RTD) that can be used	Pt 100 ; minimum measurement range 10 K
Connection method	2, 3, 4-wire

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Output data

Output name	Current output
Current output signal	4 mA ... 20 mA
	20 mA ... 4 mA
Output current with wire break	≤ 3.6 mA or ≥ 21 mA (adjustable)
Output current with short-circuit	≤ 3.6 mA or ≥ 21 mA (adjustable)
Output current range with overrange/underrange	≤ 20.5 mA / ≥ 3.8 mA (linear increase/decrease)
Load/output load current output	Max (V_{supply} -12 V) / 0.023 A (current output)

Power supply

Designation	Loop-powered
Supply voltage range	12 V DC ... 35 V DC
Max. current consumption	< 3.5 mA

Connection data

Connection method	Pluggable screw connection
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	24
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Stripping length	8 mm
Screw thread	M3

General

Transmission error resistance thermometer	0.2 K
Step response (10-90%)	< 2 s
Switch-on delay	4 s
Test voltage input/output	2 kV (50 Hz, 1 min.)
Noise emission	EN 61326-1 (IEC 61326) and NAMUR NE 21
Noise immunity	EN 61326-1 (IEC 61326) and NAMUR NE 21
Color	green
Housing material	Polyamide PA non-reinforced
Mounting position	any
Configuration	Using MCR-PI-CONF-WIN configuration software package
Conformance	CE-compliant
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

Standards and Regulations

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Standards and Regulations

Noise emission	EN 61326-1 (IEC 61326) and NAMUR NE 21
Noise immunity	EN 61326-1 (IEC 61326) and NAMUR NE 21
Connection in acc. with standard	CUL
Conformance	CE-compliant
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

Classifications

eCl@ss

eCl@ss 4.0	27200206
eCl@ss 4.1	27200206
eCl@ss 5.0	27200206
eCl@ss 5.1	27200206
eCl@ss 6.0	27200206
eCl@ss 7.0	27200206
eCl@ss 8.0	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

Approvals

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UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

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Approvals

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details

UL Recognized

cUL Recognized

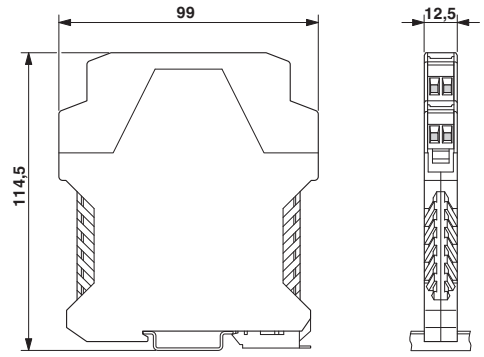
EAC

EAC

cULus Recognized

Drawings

Dimensional drawing



Circuit diagram