

MCR-FL-T-LP-I

Order No.: 2864561



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2864561>

MCR temperature measuring transducer: programmable, loop-powered, for resistance thermometers, thermocouples, resistance-type sensors and voltage sensors.



Commercial data

GTIN (EAN)	
sales group	H513
Pack	1 pcs.
Customs tariff	85437090
Catalog page information	Page 374 (IF-2009)

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Technical data

Input data

Configurable/programmable	Yes, programmable
Sensor types (RTD) that can be used	Pt, Ni (100, 500, 1000); minimum measurement range 10 K
Sensor types that can be used (TC)	B, C, D, E, J, K, L, N, R, S, T, U; minimum measurement range 50 K/500 K
Linear resistance measuring range	(Resistance-type sensor from 10 Ω to 400 Ω and from 10 Ω to 2000 Ω ; minimum measurement range 10 Ω /100 Ω)
Connection method	2, 3, 4-wire

Output data

Output name	Current output
Current output signal	4 mA ... 20 mA
	20 mA ... 4 mA
Output current with wire break	$\leq 3.6 \text{ mA}$ or $\geq 21 \text{ mA}$ (adjustable)
Output current with short-circuit	$\leq 3.6 \text{ mA}$ or $\geq 21 \text{ mA}$ (adjustable, not for thermocouples)
Output current range with overrange/underrange	$\leq 20.5 \text{ mA}$ / $\geq 3.8 \text{ mA}$ (linear increase/decrease)
Load/output load current output	(Max ($V_{\text{supply}} - 12 \text{ V}$) / 0.023 A (current output))

Power supply

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

Connection data

Type of connection	Pluggable screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14
Stripping length	8 mm
Screw thread	M3

General data

Width	12.5 mm
Height	99 mm
Depth	114.5 mm
Step response (10-90%)	< 2 s
Pickup delay	4 s
Ambient temperature (operation)	-40 °C ... 85 °C
Degree of protection	IP20
Test voltage input/output	2 kV (50 Hz, 1 min.)
Noise emission	EN 61 326-1 (IEC 1326) and NAMUR EN 21
Noise immunity	EN 61 326-1 (IEC 1326) and NAMUR EN 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

Certificates / Approvals



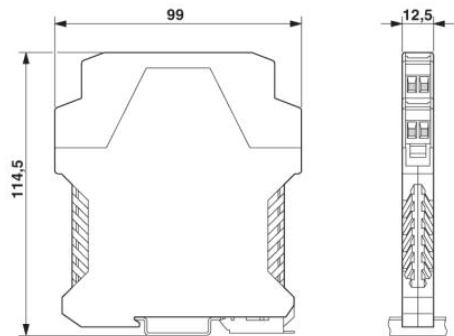
Certification	CUL, GOST, UL
Certification Ex:	CUL-EX LIS, UL-EX LIS

Accessories

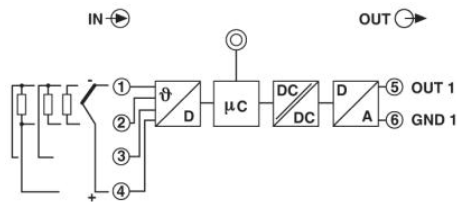
Item	Designation	Description
Cable/conductor		
2881078	CM-KBL-RS232/USB	Connecting cable D-9-SUB to USB, with adapter D-9-SUB to D-25-SUB.
2864590	MCR-PAC-T	Software adapter cable, 2.4 m for programming MCR-...-LP-...- and MCR-...-HT-... modules
General		
2814799	MCR/PI-CONF-WIN	PI/MCR configuration software, for programming the PI/Ex-RTD..., PI/Ex-THC..., MCR-T-..., MCR-PSP-..., MCR-f... and MCR-s...modules

Diagrams/Drawings

Dimensioned drawing



Circuit diagram



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