

Head-mounted transducer - MCR-FL-HT-T-I-EX - 2864532

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MCR head-mounted temperature transducers, programmable, intrinsically safe, for resistance thermometers, thermocouples, resistance-type sensors and voltage sensors. For Pt 100 resistance thermometers

Your advantages

- Input for resistance thermometers, thermocouples, and linear mV signals, Ex ia IIC
- Configuration via software
- Can be installed in zone 0
- 2-way electrical isolation
- Loop-powered
- 1-channel
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Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4017918893231
Weight per Piece (excluding packing)	82.300 g
Custom tariff number	85437090
Country of origin	Germany
Note	Made to Order (non-returnable)

Technical data

Ambient conditions

Ambient temperature (operation)	-40 °C ... 55 °C
Degree of protection	IP00
	IP66 (Installed in the connection head)

Input data

Configurable/programmable	Yes, programmable
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Technical data

Input data

Sensor types (RTD) that can be used	Pt, Ni (100, 500, 1000); min. measurement range 10 K
Sensor types that can be used (TC)	B, C, D, E, J, K, L, N, R, S, T, U; min. measurement range 50 K/500 K
Connection technology	2, 3, 4-wire
Input signal range	10 Ω ... 400 Ω (min. measurement range 10 Ω)
	10 Ω ... 2000 Ω (min. measurement range 100 Ω)
	-10 mV ... 100 mV (min. measurement range 5 mV)

Output data

Configurable/programmable	Yes, programmable
Current output signal	4 mA ... 20 mA
	20 mA ... 4 mA
Max. current output signal	≤ 25 mA
Output current with short-circuit	≤ 3.6 mA or ≥ 21 mA (adjustable, not for thermocouples)
Output current with wire break	≤ 3.6 mA or ≥ 21 mA (adjustable)
Output current range with overrange/underrange	3.8 mA ... 20.5 mA (linear increase/decrease)
Load/output load current output	≤ 720 Ω (For $U_V = 24\text{ V}$; $U_{\text{supply}} = 8\text{ V} / 0.025\text{ A}$)
Configurable/programmable	no

Power supply

Designation	Loop-powered
Supply voltage range	8 V DC ... 30 V DC
Max. current consumption	< 3.5 mA

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.2 mm ² ... 1.75 mm ²
Conductor cross section flexible	0.2 mm ² ... 1.75 mm ²
Conductor cross section AWG	24 ... 15
Torque	0.5 Nm ... 0.6 Nm
pluggable	no

General

Step response (10-90%)	< 2 s
Switch-on delay	6 s
Configuration	Using MCR-PI-CONF-WIN configuration software package
Standards/regulations	NAMUR recommendation NE 21
Housing material	Polycarbonate, PC
Color	green
Line monitoring	NE 43
Conformance	CE-compliant
ATEX	# II 1 G Ex ia IIC T6/T5/T4