

Temperature measuring transducer - MCR-FL-TS-LP-I-EX - 2864587

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Measurement and control temperature transducers, resistance thermometers, thermocouples, resistance-type sensors, and voltage sensors. Replacement part: 2908660 MACX MCR-EX-TS-I-OLP.

Your advantages

- Input for resistance thermometers, thermocouples, and linear mV signals, Ex ia IIC
- Configuration via software
- Can be installed in zone 1
- 2-way electrical isolation
- Output: 4 mA ... 20 mA/20 mA ... 4 mA
- Loop-powered
- 1-channel
- HART-compatible (MCR-FL-TS-LP-I-EX)



Key Commercial Data

| | |
|--------------------------------------|--------------------------------|
| Packing unit | 1 pc |
| GTIN | |
| GTIN | 4017918907266 |
| Weight per Piece (excluding packing) | 104.300 g |
| Custom tariff number | 85437090 |
| Country of origin | Germany |
| Note | Made to Order (non-returnable) |

Technical data

Dimensions

| | |
|--------|----------|
| Width | 12.5 mm |
| Height | 99 mm |
| Depth | 114.5 mm |

Ambient conditions

Temperature measuring transducer - MCR-FL-TS-LP-I-EX - 2864587

Technical data

Ambient conditions

| | |
|---------------------------------|------------------|
| Ambient temperature (operation) | -40 °C ... 55 °C |
| Degree of protection | IP20 |

Input data

| | |
|-------------------------------------|---|
| Configurable/programmable | Yes, programmable |
| 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

| | |
|--|---|
| Signal output | Current output |
| Configurable/programmable | Yes |
| Current output signal | 4 mA ... 20 mA |
| | 20 mA ... 4 mA |
| Max. current output signal | ≤ 23 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 |
| Load/output load current output | ≤ 520 Ω (At $U_V = 24 \text{ V}$; $U_{\text{supply}} = 12 \text{ V} / 0.023 \text{ A}$) |
| Configurable/programmable | no |

Power supply

| | |
|--------------------------|---------------------|
| Designation | Loop-powered |
| Supply voltage range | 12 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 ... 2.5 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 24 ... 14 |
| Torque | 0.5 Nm ... 0.6 Nm |
| pluggable | no |

General

| | |
|------------------------|--------------------|
| Step response (10-90%) | < 2 s |
| Switch-on delay | 4 s |
| Configuration | With HART protocol |