

## INDUSTRIAL COMPONENT DATA

# MACX MCR-EX-TC-I 1050233 PHOENIX CONTACT Ex i temperature transducer: converts signals from thermocouples in..

Brand: PHOENIX CONTACT | Manufacturer Part Number: MACX MCR-EX-TC-I



|                 |                         |
|-----------------|-------------------------|
| Manufacturer    | PHOENIX CONTACT         |
| MPN / Reference | MACX MCR-EX-TC-I        |
| Catalog number  | 1050233                 |
| Category        | Temperature transformer |
| Minimum order   | 1 Pcs                   |
| Document ID     | EO-3DFD7921C1           |
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## Product Overview

Ex i temperature transducer: converts signals from thermocouples installed in Ex areas and mV sources and transmits a 0/4...20 mA signal to a load in the safe area. Freely programmable. 3-way isolation, screw connection, SIL.

Intrinsically Safe Temperature Converter: Transforms signals from thermocouples and mV sources installed in the Ex zone and transmits a 0/4-20 mA signal to a load in the safe zone. Free programming. 3-way separation, screw connection, SIL.

## STRUCTURED PRODUCT DATA

## Technical Specifications

No structured technical attributes are currently available. Submit an RFQ for technical review.

## Classification & Catalog Path

Catalog path PHOENIX CONTACT &gt; INTERFACE Components (IF)

## Additional Product Information

Key Commercial Data

Orderkey 1050233

Packing unit 1 pc

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GTIN 4055626663463

Weight per Piece (excluding packing) 0.000 g

Custom tariff number 85437090

Country of origin DE (Germany)

Drawings

Dimensions

Input data

Power supply

General

EMC data

Environmental Product Compliance

Note

Ambient conditions

Output data

Connection data

Safety data

Standards and Regulations

Classifications

Drawings

Block diagram

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

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Width 12.5 mm

Height 112.5 mm

Depth 114.5 mm

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Ambient temperature (operation) -40 °C ... 70 °C (Any mounting position)

Ambient temperature (storage/transport) -40 °C ... 80 °C

Maximum altitude ≤ 2000 m

Permissible humidity (operation) 5 % ... 95 % (non-condensing)

Degree of protection IP20

Noise immunity EN 61000-6-2 When being exposed to interference, there may be minimal deviations.

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Input Intrinsically safe

Sensor types that can be used (TC) B, E, J, K, N, R, S, T, L, U, C, D, A-1, A-2, A-3, M, Lr

Temperature measuring range -250 °C ... 2500 °C (Range depending on the sensor type)

Input signal range -1000 mV ... 1000 mV

Measuring range span Min. 50 K with thermocouple, 10% of the nominal span of the respective range with mV sources

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Signal output Current output

Configurable/programmable Yes

Current output signal 0 mA ... 20 mA

4 mA ... 20 m...

## REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send PHOENIX CONTACT / MACX MCR-EX-TC-I with the required quantity to [info@electricaonline.com](mailto:info@electricaonline.com) or use [electricaonline.com/request-quote](https://electricaonline.com/request-quote).

### GLOBAL OFFICES

Germany: Lise-Meitner-Straße 13, 89081 Ulm | USA: 16225 Park Ten Pl #500, Houston, TX 77084 | UAE: HDS Business Centre Tower, Cluster M, 33rd Floor, JLT, Dubai

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