

## INDUSTRIAL COMPONENT DATA

# MACX MCR-TC-I 1050228 PHOENIX CONTACT Temperature transducer: converts signals from thermocouples and mV

## SOU..

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



|                 |                         |
|-----------------|-------------------------|
| Manufacturer    | PHOENIX CONTACT         |
| MPN / Reference | MACX MCR-TC-I           |
| Catalog number  | 1050228                 |
| Category        | Temperature transformer |
| Minimum order   | 1 Pcs                   |
| Document ID     | EO-A791C15579           |
| Generated       | 2026-08-04              |

## Product Overview

Temperature transducer: converts signals from thermocouples and mV sources into 0/4...20 mA signals. Freely programmable, 3-way electrical isolation, screw connection, SIL.

Temperature converter: transforms signals from thermocouples and mV sources into 0/4-20 mA signals. Free programming, 3-way galvanic 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

Technical dataNotesUtilization restriction

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

Product propertiesProduct type Temperature transmitter

Product family MACX Analog

Application Temperature

No. of channels 1

Type Signal conditioners with SIL functional safety

Configuration Software

Data management status

Article revision 06

Insulation characteristics: GB Standard

Overvoltage category II

Pollution degree 2

Electrical properties Electrical isolation 3-way isolation

Cold point error, max.  $\pm 2$  K

Step response (0-99%) 1 s

$\leq 1.7$  s

Temperature coefficient, typical 0.01 %/K

Transmission error, typical 0.1 % (For full identification of transmission errors, see the data sheet)

Electrical isolation Input/output/power supply

Rated insulation voltage 300 Vrms

Test voltage 2.5 kV AC (50 Hz, 60 s)

Insulation Safe isolation in accordance with IEC/EN 61010-1

Electrical isolation Input/output

Electrical isolation 375 V (Peak value in accordance with IEC/EN 60079-11)

Electrical isolation Input/power supply

Electrical isolation 375 V (Peak value in accordance with IEC/EN 60079-11)

Supply

Nominal supply voltage 24 V DC

Supply voltage range 19.2 V DC ... 30 V DC (24 V DC, -20 % ... +25 %)

Max. current consumption < 40 mA (24 V DC)

Power dissipation  $\leq 0.76$  W

Power consumption  $\leq 1$  W

Input data Signal

Number of inputs 1

Input signal Temperature

Voltage

Measurement

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

Tempe...

## REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send PHOENIX CONTACT / MACX MCR-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

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