

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	2026-08-05

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 > 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. ± 2 K

Step response (0-99%) 1 s

≤ 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 ≤ 0.76 W

Power consumption ≤ 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 or use 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

Catalog-generated document. Product names, marks and specifications belong to their respective owners. Verify safety-critical, compatibility and certification requirements against the manufacturer documentation before purchase or installation.