

INDUSTRIAL COMPONENT DATA

MACX MCR-SL-2I-2I-ILP-SP 2905281 PHOENIX CONTACT

Loop-powered isolators

Brand: PHOENIX CONTACT | Manufacturer Part Number: MACX MCR-SL-2I-2I-ILP-SP



Manufacturer	PHOENIX CONTACT
MPN / Reference	MACX MCR-SL-2I-2I-ILP-SP
Catalog number	2905281
Category	Isolation amplifier
Minimum order	1 Pcs
Document ID	EO-B5A33DE3D6
Generated	2026-07-29

Product Overview

Loop-powered isolators

2-way splitter powered by 2-channel input loop with plug-in connection technology for galvanic separation of analog signals. Input signal = output signal: 0(4) mA ... 20 mA. Push-in connection technology.

2-channel input loop-powered 2-way isolator with plug-in connection technology for the electrical isolation of analog signals. Input signal = output signal: 0(4) mA ... 20 mA. Push-in connection technology.

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 dataProduct propertiesProduct type Signal conditioner

Product family MACX Analog

No. of channels 2

Type Signal conditioners with SIL functional safety

Data management status

Article revision 04

Insulation characteristics

Overvoltage category II

Pollution degree 2

Electrical propertiesElectrical isolation 2-way isolation

Signal transmission behavior In = Out

Maximum temperature coefficient $\leq 0.002\text{ \%}/\text{K}$ (of measured value / 100 ? load)

Transmission error, typical 0.08 % (of final value)

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

Supply

Supply voltage range loop-powered, no external supply necessary

Input dataSignal: Current

Number of inputs 2

Configurable/programmable no

Max. voltage input signal $< 30.5\text{ V}$

Current input signal 0 mA ... 20 mA

4 mA ... 20 mA

Input voltage limitation 30.5 V

Voltage dissipation 2.9 W (I = 20 mA)

Step response (10-90%) 5 ms (500 ? load)

Additional error, load-dependent 0.022 % (of measured value / 100 ? load)

Response current approx. 50 μA

Output dataSignal: Current

Number of outputs 2

Configurable/programmable no

Max. voltage output signal 27.5 V

Current output signal 0 mA ... 20 mA

4 mA ... 20 mA

Load/output load current output $\leq 1375\text{ ?}$ (I = 20 mA)

Residual ripple $< 10\text{ mVrms}$ (500 ? load)

Connection dataConnection method Push-in connection

Stripping length 8 mm

Conductor cross section rigid 0.2 mm² ... 1.5 mm²

REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send PHOENIX CONTACT / MACX MCR-SL-2I-2I-ILP-SP 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.