INDUSTRIAL COMPONENT DATA

MACX MCR-EX-SL-RPSSI-I-UP-SP 2924029 PHOENIX CONTACT Power/input isolating amplifier

Brand: PHOENIX CONTACT | Manufacturer Part Number: MACX MCR-EX-SL-RPSSI-I-UP-SP



Manufacturer	PHOENIX CONTACT
MPN / Reference	MACX MCR-EX-SL-RPSSI-I-UP-SP
Catalog number	2924029
Category	Isolation amplifier
Minimum order	1 Pcs
Document ID	EO-84253B1AEB
Generated	2026-11-18

Product Overview

Power/input isolating amplifier
Intrinsically safe input and power signal conditioner with HART transparency. Transmits 0/4 signals ... 20 mA powered or active from the Ex zone to a load (active or passive) in the safe zone. SIL 2 (1oo1) / SIL 3 (1oo2), wide range power.
Ex i repeater power supply and input signal conditioner, HART-transparent. Transmits supplied or active 0/4 … 20 mA signals from the Ex area to a load (active or passive) in the safe area. SIL 2 (1oo1) / SIL 3 (1oo2), wide-range supply.

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 Repeater power supply
Product family MACX Analog
Application Analog IN
No. of channels 1
Type Ex i signal conditioners with SIL functional safety
Configuration DIP switches
Data management status
Article revision 14
Electrical propertiesElectrical isolation 3-way isolation
Electrical isolation between input and output yes
Step response (10-90%) < 600 µs (for 4 mA ... 20 mA step)

Maximum temperature coefficient < 0.01 %/K
Maximum transmission error < 0.1 % (of final value)
Transmission error, typical < 0.05 % (of final value)
Electrical isolation
Test voltage 2.5 kV AC (50 Hz, 60 s)
Overvoltage category II
Pollution degree 2
Electrical isolation Input/output/power supply IEC/EN 61010-1
Standards/regulations IEC/EN 61010-1
Rated insulation voltage 300 Vrms
Insulation Safe isolation
Electrical isolation Input/output IEC/EN 60079-11
Standards/regulations IEC/EN 60079-11
Rated insulation voltage 265 Vrms
Electrical isolation Input/power supply IEC/EN 60079-11
Standards/regulations IEC/EN 60079-11
Rated insulation voltage 265 Vrms
Electrical isolation Output/supply IEC/EN 60079-7
Standards/regulations IEC/EN 60079-7
Rated insulation voltage 265 Vrms
Supply
Designation Repeater power supply operation
Nominal supply voltage range 24 V AC/DC ... 230 V AC/DC -20 % ... +10 % (50/60 Hz)
Supply voltage range 19.2 V AC/DC ... 253 V AC/DC (50/60 Hz)
Max. current consumption < 80 mA (24 V DC / 20 mA)
Power dissipation < 1.6 W (24 V DC / 20 mA)
Po...

REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send PHOENIX CONTACT / MACX MCR-EX-SL-RPSSI-I-UP-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.