

# MACX MCR-EX-SL-RPSSI-2I-1S-SP - Repeater power supply



2908856

<https://www.phoenixcontact.com/pc/products/2908856>

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Ex i measuring transducer repeater power supply and input signal conditioner, only output 1 is HART-transparent. Transmits supplied or active electrically isolated signals from the Ex area to two loads. SIL 2 in accordance with IEC 61508, Push-in connection.

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2908856             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Product key                          | CK3111              |
| Catalog page                         | Page 143 (C-5-2019) |
| GTIN                                 | 4055626352183       |
| Weight per piece (including packing) | 250 g               |
| Weight per piece (excluding packing) | 175 g               |
| Customs tariff number                | 85437090            |
| Country of origin                    | DE                  |

# MACX MCR-EX-SL-RPSSI-2I-1S-SP - Repeater power supply



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## Technical data

### Notes

#### Utilization restriction

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

### Product properties

|                 |                                                            |
|-----------------|------------------------------------------------------------|
| Product type    | Repeater power supplies                                    |
| Product family  | MACX Analog                                                |
| No. of channels | 1                                                          |
| Type            | Ex i signal conditioners with SIL and PL Functional Safety |

### Electrical properties

|                                               |                                                                                                     |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------|
| No. of channels                               | 1                                                                                                   |
| Electrical isolation between input and output | yes                                                                                                 |
| Signal transmission behavior                  | In = Out                                                                                            |
| Step response (10-90%)                        | 1.3 ms (Output 1, for jump 4 mA ... 20 mA, typical)<br>< 100 ms (Output 2, for jump 4 mA ... 20 mA) |
| Maximum temperature coefficient               | < 0.01 %/K                                                                                          |
| Maximum transmission error                    | < 0.1 % (of final value)                                                                            |
| Transmission error, typical                   | < 0.05 % (of final value)                                                                           |

#### Electrical isolation

|                      |    |
|----------------------|----|
| 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 V <sub>rms</sub>    |
| Test voltage             | 2.5 kV AC (50 Hz, 60 s) |
| Insulation               | Safe isolation          |

#### Electrical isolation Input/output IEC/EN 60079-11

|                          |                      |
|--------------------------|----------------------|
| Standards/regulations    | IEC/EN 60079-11      |
| Rated insulation voltage | 265 V <sub>rms</sub> |

#### Electrical isolation Input/power supply IEC/EN 60079-11

|                          |                      |
|--------------------------|----------------------|
| Standards/regulations    | IEC/EN 60079-11      |
| Rated insulation voltage | 265 V <sub>rms</sub> |

#### Electrical isolation Output 1/output 2

|              |                         |
|--------------|-------------------------|
| Test voltage | 1.5 kV AC (50 Hz, 60 s) |
|--------------|-------------------------|

### Supply

|             |                                 |
|-------------|---------------------------------|
| Designation | Repeater power supply operation |
|-------------|---------------------------------|

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2908856

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|                          |                            |
|--------------------------|----------------------------|
| Nominal supply voltage   | 24 V DC -20 % ... +25 %    |
| Supply voltage range     | 19.2 V DC ... 30 V DC      |
| Max. current consumption | < 75 mA (24 V DC / 20 mA)  |
| Power dissipation        | < 1.45 W (24 V DC / 20 mA) |
| Power consumption        | ≤ 1.8 W                    |

## Supply

|                          |                              |
|--------------------------|------------------------------|
| Designation              | Signal conditioner operation |
| Nominal supply voltage   | 24 V DC -20 % ... +25 %      |
| Supply voltage range     | 19.2 V DC ... 30 V DC        |
| Max. current consumption | < 46 mA (24 V DC / 20 mA)    |
| Power dissipation        | < 1.1 W (24 V DC/20 mA)      |

## Input data

### Signal: Repeater power supply operation

|                                   |                                                              |
|-----------------------------------|--------------------------------------------------------------|
| Description of the input          | Repeater power supply operation                              |
| Number of inputs                  | 1                                                            |
| Current input signal              | 4 mA ... 20 mA                                               |
| Transmitter supply voltage        | > 16 V (20 mA)<br>> 15.1 V (23 mA)                           |
| Polarization and surge protection | Yes                                                          |
| Underload/overload signal range   | 0 mA ... 24 mA (Extended transmission range for diagnostics) |

### Signal: Signal conditioner operation

|                                 |                                                              |
|---------------------------------|--------------------------------------------------------------|
| Description of the input        | Signal conditioner operation                                 |
| Current input signal            | 0 mA ... 20 mA<br>4 mA ... 20 mA                             |
| Voltage drop                    | approx. 3.9 V (in input isolating amplifier operation)       |
| Underload/overload signal range | 0 mA ... 24 mA (Extended transmission range for diagnostics) |

## Output data

### Signal: Repeater power supply operation

|                                          |                                                                               |
|------------------------------------------|-------------------------------------------------------------------------------|
| Output description                       | Repeater power supply operation                                               |
| Number of outputs                        | 2                                                                             |
| Current output signal                    | 4 mA ... 20 mA (Output 1 and output 2 active)                                 |
| Load/output load current output          | < 450 Ω (20 mA)<br>< 380 Ω (23 mA)                                            |
| Output ripple                            | < 20 mV <sub>rms</sub>                                                        |
| Output behavior in the event of an error | 0 mA (Cable break in the input)<br>≥ 23 mA (Cable short-circuit in the input) |
| Underload/overload signal range          | 0 mA ... 24 mA (Extended transmission range for diagnostics)                  |

### Signal: Signal conditioner operation

|                    |                              |
|--------------------|------------------------------|
| Output description | Signal conditioner operation |
|--------------------|------------------------------|

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|                                          |                                                              |
|------------------------------------------|--------------------------------------------------------------|
| Current output signal                    | 0 mA ... 20 mA (active)                                      |
|                                          | 4 mA ... 20 mA (active)                                      |
| Load/output load current output          | < 450 $\Omega$ (20 mA)                                       |
|                                          | < 380 $\Omega$ (23 mA)                                       |
| Output ripple                            | < 20 mV <sub>rms</sub>                                       |
| Output behavior in the event of an error | 0 mA (Cable break in the input)                              |
|                                          | 0 mA (Cable short-circuit in the input)                      |
| Underload/overload signal range          | 0 mA ... 24 mA (Extended transmission range for diagnostics) |

## Connection data

|                                                                         |                                                                                     |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Connection method                                                       | Push-in connection                                                                  |
| Stripping length                                                        | 10 mm                                                                               |
| Conductor cross section rigid                                           | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                         |
| Conductor cross section flexible                                        | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                         |
| Conductor cross section flexible (2 conductors with same cross section) | 0.25 mm <sup>2</sup> ... 0.34 mm <sup>2</sup> (TWIN ferrule without plastic sleeve) |
|                                                                         | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (TWIN ferrule with plastic sleeve)      |
| Conductor cross section AWG                                             | 24 ... 14                                                                           |
|                                                                         | 24 ... 22 (TWIN ferrule without plastic sleeve)                                     |
|                                                                         | 20 ... 16 (TWIN ferrule with plastic sleeve)                                        |

## Test socket

|               |      |
|---------------|------|
| Max. diameter | 2 mm |
|---------------|------|

## Ex data

|                       |        |
|-----------------------|--------|
| Ex installation (EPL) | Gc     |
|                       | Div. 2 |
| Ex i circuits (EPL)   | Ga     |
|                       | Da     |
|                       | Ma     |
|                       | Div. 1 |

## Safety data: Repeater power supply operation

|                                                                                                           |                     |
|-----------------------------------------------------------------------------------------------------------|---------------------|
| Max. output voltage U <sub>o</sub>                                                                        | 25.2 V              |
| Max. output current I <sub>o</sub>                                                                        | 93 mA               |
| Max. output power P <sub>o</sub>                                                                          | 587 mW              |
| Safety-related maximum voltage U <sub>m</sub>                                                             | 253 V AC            |
|                                                                                                           | 125 V DC            |
| I (simple circuit): Max. external inductivity L <sub>o</sub> / Max. external capacitance C <sub>o</sub>   | 40 mH / 4.8 $\mu$ F |
| IIA (simple circuit): Max. external inductivity L <sub>o</sub> / Max. external capacitance C <sub>o</sub> | 26 mH / 2.9 $\mu$ F |
| IIB (simple circuit): Max. external inductivity L <sub>o</sub> / Max. external capacitance C <sub>o</sub> | 14 mH / 820 nF      |
| IIC (simple circuit): Max. external inductivity L <sub>o</sub> / Max. external capacitance C <sub>o</sub> | 3 mH / 107 nF       |

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|                                                                                            |                                                                                                              |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| I/A (mixed circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$     | 26 mH / 470 nF, 20 mH / 570 nF, 1 mH / 630 nF, 0.5 mH / 720 nF, 0.1 mH / 1.1 $\mu$ F, 0.005 mH / 2.9 $\mu$ F |
| IIB/III (mixed circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$ | 16 mH / 370 nF, 500 $\mu$ H / 510 nF, 200 $\mu$ H / 660 nF, 100 $\mu$ H / 820 nF                             |
| IIC (mixed circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$     | 2.2 mH / 47 nF, 2 mH / 49 nF, 1 mH / 63 nF, 500 $\mu$ H / 80 nF, 200 $\mu$ H / 107 nF                        |
| I (mixed circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$       | 37 mH / 0.54 $\mu$ F, 0.35 mH / 1 $\mu$ F, 0.009 mH / 2.9 $\mu$ F, 0.001 mH / 4.15 $\mu$ F                   |

## Safety data: Signal conditioner operation

|                                      |               |
|--------------------------------------|---------------|
| Input voltage $U_i$                  | $\leq 30$ V   |
| Input current $I_i$                  | $\leq 150$ mA |
| Max. internal inductance $L_i$       | negligible    |
| Max. internal capacitance $C_i$      | negligible    |
| Safety-related maximum voltage $U_m$ | 253 V AC      |
|                                      | 125 V DC      |

## Interfaces

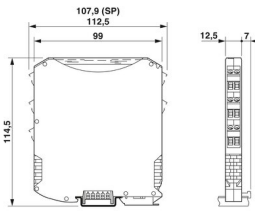
### Data communication (bypass)

|                     |                      |
|---------------------|----------------------|
| HART function       | Yes                  |
| Protocols supported | HART-transparent     |
| Protocol            | HART (only output 1) |

## Signaling

|                |                            |
|----------------|----------------------------|
| Status display | Green LED (supply voltage) |
|----------------|----------------------------|

## Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 12.5 mm                                                                              |
| Height              | 107.9 mm                                                                             |
| Depth               | 113.7 mm                                                                             |
| Depth NS 35/7,5     | 114.5 mm (Snapped onto DIN rail NS 35/7,5 in accordance with EN 60715)               |

## Material specifications

|                                        |              |
|----------------------------------------|--------------|
| Flammability rating according to UL 94 | V0 (Housing) |
| Housing material                       | PA 6.6-FR    |

## Environmental and real-life conditions

### Ambient conditions

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|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| Degree of protection                    | IP20 (not assessed by UL)                |
| Ambient temperature (operation)         | -40 °C ... 60 °C (Any mounting position) |
|                                         | -40 °C ... 70 °C (Derating)              |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C                         |
| Permissible humidity (operation)        | 10 % ... 95 % (non-condensing)           |

## Altitude range (≤ 2000 m)

|                                 |                                                                                                                                                      |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Altitude                        | ≤ 2000 m (The technical data refers to altitudes ≤2000 m above mean sea level. For altitudes >2000 m above mean sea level, refer to the data sheet.) |
| Ambient temperature (operation) | -40 °C ... 60 °C                                                                                                                                     |
|                                 | -40 °C ... 70 °C (Derating)                                                                                                                          |
| Rated insulation voltage        | 375 V <sub>PP</sub> (Power supply, input / output)                                                                                                   |

## Altitude range (≤ 3000 m)

|                                 |                                         |
|---------------------------------|-----------------------------------------|
| Height range                    | > 2000 m ... 3000 m                     |
| Ambient temperature (operation) | -40 °C ... 54 °C                        |
|                                 | -40 °C ... 63 °C (Derating)             |
| Rated insulation voltage        | 190 V AC (Power supply, input / output) |
|                                 | 110 V DC (Power supply, input / output) |

## Altitude range (≤ 4000 m)

|                                 |                                           |
|---------------------------------|-------------------------------------------|
| Height range                    | > 3000 m ... 4000 m                       |
| Ambient temperature (operation) | -40 °C ... 48 °C                          |
|                                 | -40 °C ... 56 °C (Derating)               |
| Rated insulation voltage        | 60 V AC/DC (Power supply, input / output) |

## Altitude range (≤ 5000 m)

|                                 |                                           |
|---------------------------------|-------------------------------------------|
| Height range                    | > 4000 m ... 5000 m                       |
| Ambient temperature (operation) | -40 °C ... 42 °C                          |
|                                 | -40 °C ... 49 °C (Derating)               |
| Rated insulation voltage        | 60 V AC/DC (Power supply, input / output) |

## Approvals

### CE

|             |              |
|-------------|--------------|
| Certificate | CE-compliant |
| Note        | and EN 61326 |

### ATEX

|                |                                                                                                                                                                                                                                                            |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Identification | <div> <div>⊕</div> <div>II (1) G [Ex ia Ga] IIC</div> </div> <div> <div>⊕</div> <div>II (1) D [Ex ia Da] IIIC</div> </div> <div> <div>⊕</div> <div>II 3(1) G Ex ec [ia Ga] IIC T4 Gc</div> </div> <div> <div>⊕</div> <div>I (M1) [Ex ia Ma] I</div> </div> |
| Certificate    | BVS 10 ATEX E 143 X                                                                                                                                                                                                                                        |

### IECEx

|  |                |
|--|----------------|
|  | [Ex ia Ga] IIC |
|--|----------------|

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|                |                         |
|----------------|-------------------------|
| Identification | [Ex ia Da] IIC          |
|                | Ex ec [ia Ga] IIC T4 Gc |
|                | [Ex ia Ma] I            |
| Certificate    | IECEX BVS 10.0097X      |

## CCC / China-Ex

|                |                         |
|----------------|-------------------------|
| Identification | [Ex ia Ga] IIC          |
|                | [Ex ia Da] IIIC         |
|                | Ex ec [ia Ga] IIC T4 Gc |
| Certificate    | 2022122316115971        |

## UL, USA/Canada

|                |                                                |
|----------------|------------------------------------------------|
| Identification | IS for Class I, II, III, Division 1 and Zone 0 |
|                | Installation in Class I, Division 2 and Zone 2 |
| Certificate    | UL, C.D.-No 83104549                           |

## UL, USA/Canada

|                |                                              |
|----------------|----------------------------------------------|
| Identification | Class I Div 2; IS for Class I, II, III Div 1 |
| Certificate    | UL, C.D.-No 83104549                         |

## Shipbuilding approval

|             |                   |
|-------------|-------------------|
| Certificate | DNV GL TAA000020C |
|-------------|-------------------|

## Safety Integrity Level (SIL, IEC 61508)

|                |   |
|----------------|---|
| Identification | 2 |
|----------------|---|

## Performance Level (ISO 13849)

|                |   |
|----------------|---|
| Identification | d |
|----------------|---|

## INMETRO

|                |                         |
|----------------|-------------------------|
| Identification | [Ex ia Ga] IIC          |
|                | [Ex ia Da] IIIC         |
|                | Ex ec [ia Ga] IIC T4 Gc |
| Certificate    | DNV 18.0139 X           |

## DNV GL data

|             |                                                                                         |
|-------------|-----------------------------------------------------------------------------------------|
| Temperature | B                                                                                       |
| Humidity    | B                                                                                       |
| Vibration   | A                                                                                       |
| EMC         | A                                                                                       |
| Enclosure   | Required protection according to the Rules shall be provided upon installation on board |

## EMC data

|                               |                                                                      |
|-------------------------------|----------------------------------------------------------------------|
| Noise immunity                | EN 61000-6-2                                                         |
| Note                          | When being exposed to interference, there may be minimal deviations. |
| Electromagnetic compatibility | Conformance with EMC directive                                       |

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|                |              |
|----------------|--------------|
| Noise emission | EN 61000-6-4 |
|----------------|--------------|

## Standards and regulations

### GB Standard

|                       |             |
|-----------------------|-------------|
| Standards/regulations | GB/T 3836.1 |
|                       | GB/T 3836.3 |
|                       | GB/T 3836.4 |

## Mounting

|               |                   |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

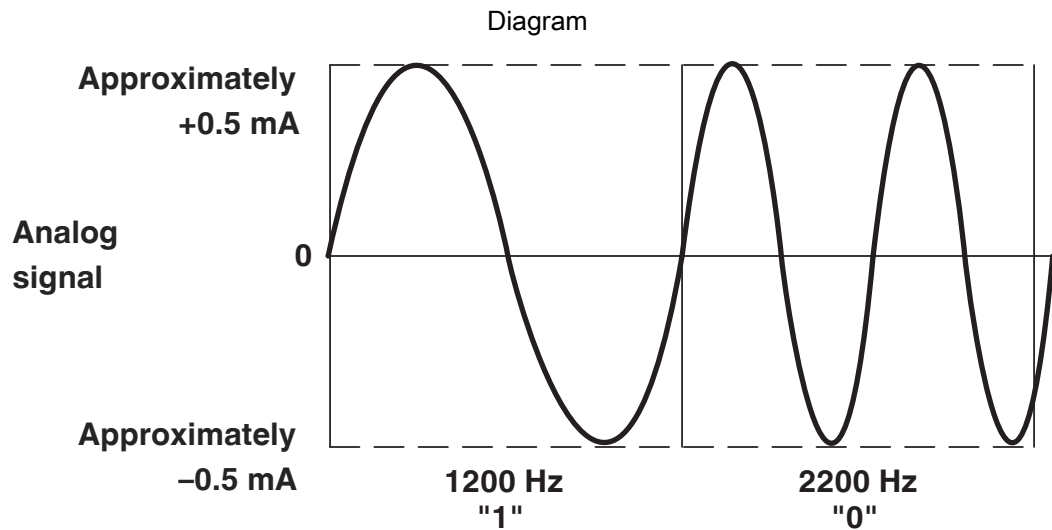
# MACX MCR-EX-SL-RPSSI-2I-1S-SP - Repeater power supply



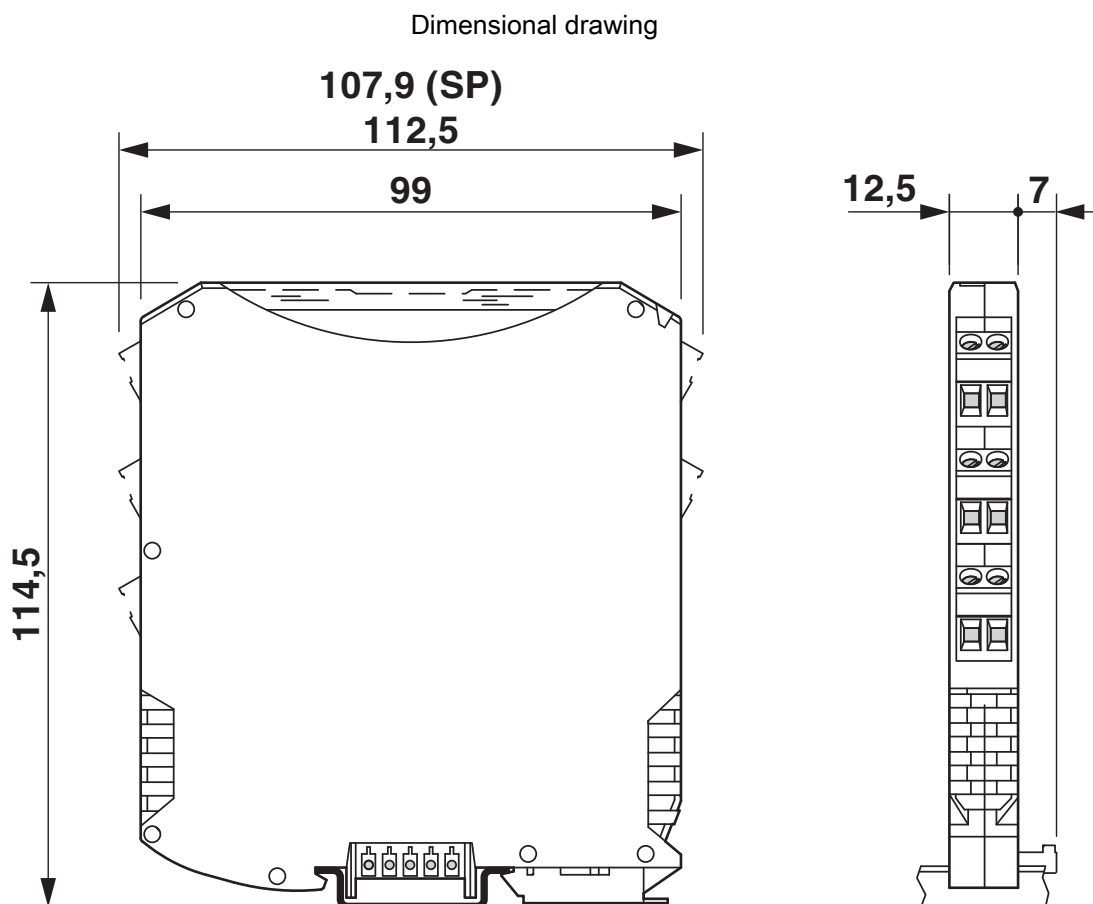
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<https://www.phoenixcontact.com/pc/products/2908856>

## Drawings



Signal transmission analog and digital at the same time

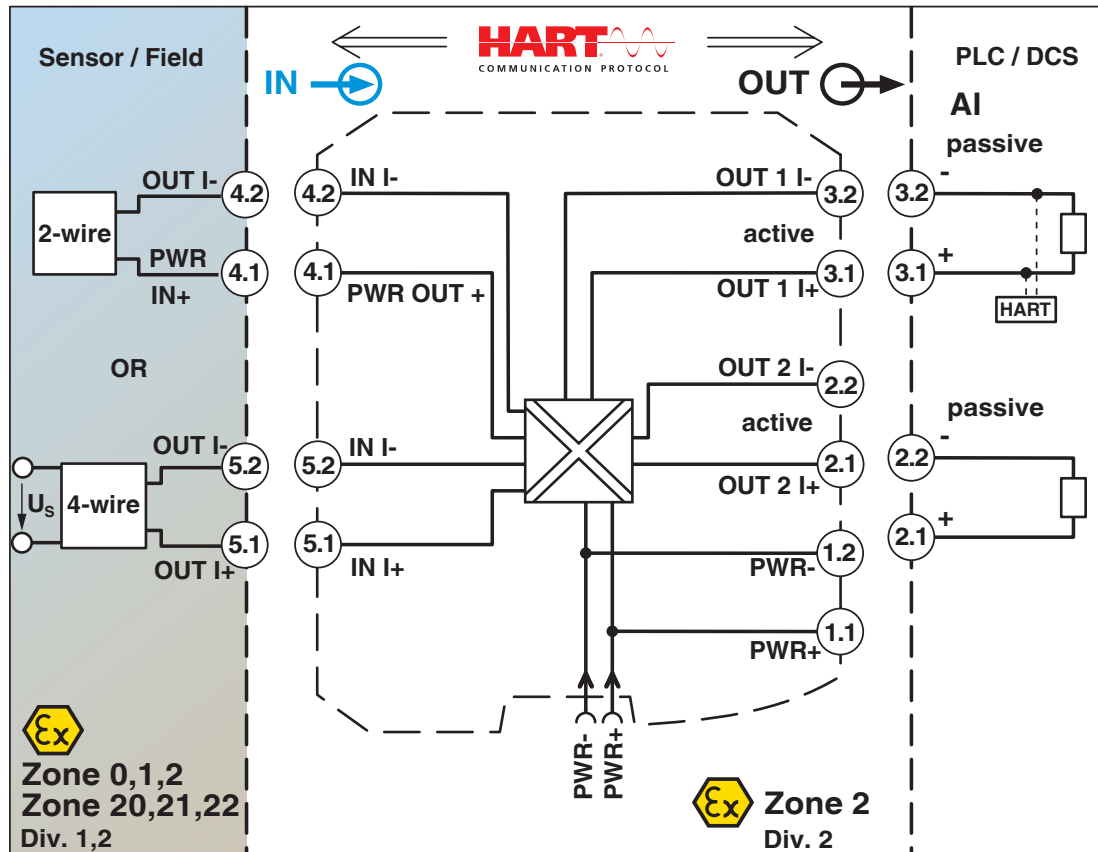


# MACX MCR-EX-SL-RPSSI-2I-1S-SP - Repeater power supply

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Block diagram



# MACX MCR-EX-SL-RPSSI-2I-1S-SP - Repeater power supply



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/2908856>



**DNV GL**

Approval ID: TAA000020C



**UL Listed**

Approval ID: FILE E 330267



**CCC**

Approval ID: 2020322 316001579



**cUL Listed**

Approval ID: FILE E 330267

**Functional Safety**

Approval ID: BVS PB 13-10-04



**EAC Ex**

Approval ID: RU C-DE.AB72.B.00093



**IECEx**

Approval ID: IECEx BVS 10.0097X



**cUL Listed**

Approval ID: FILE E 199827



**UL Listed**

Approval ID: FILE E 199827



**ATEX**

Approval ID: BVS 10 ATEX E143 X

**INMETRO**

Approval ID: DNV 18.0139 X

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**ATEX**

Approval ID: BVS 10 ATEX E143 X



**IECEx**

Approval ID: IECEx BVS 10.0097X

cULus Listed

cULus Listed

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27210120 |
| ECLASS-12.0 | 27210120 |
| ECLASS-13.0 | 27210120 |

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC002653 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121000 |
|-------------|----------|

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## Environmental product compliance

|            |                                                                                                              |
|------------|--------------------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 50 years                                                               |
|            | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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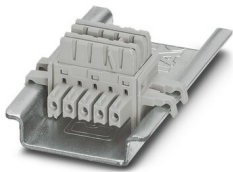
<https://www.phoenixcontact.com/pc/products/2908856>

## Accessories

### ME 6,2 TBUS-2 1,5/5-ST-3,81 GY - DIN rail bus connectors

2695439

<https://www.phoenixcontact.com/pc/products/2695439>



DIN rail connector (TBUS), 5-pos., for bridging the supply voltage, can be snapped onto NS 35/... DIN rail in accordance with EN 60715

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### ME 6,2 TBUS-PR-ADAPTER - DIN rail bus connectors

1136500

<https://www.phoenixcontact.com/pc/products/1136500>



Power rail adapter (ME 6,2 TBUS-PR-ADAPTER), 2-pos., enables MINI and MACX Analog modules to be adapted for supply via universal power rail UPR-03 and UPR-05.

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## MCR-DP - Separating plate

1430594

<https://www.phoenixcontact.com/pc/products/1430594>



The partition plate is used to maintain Ex i isolating distances when Ex i and non-Ex i devices are mounted side by side on a DIN rail.

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## GW HART USB MODEM - Cable adapter

1003824

<https://www.phoenixcontact.com/pc/products/1003824>



USB HART modem cable for communication between a PC and HART devices, cable length: 1m.

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## TC-2D37SUB-ADIO32-2EX-P-UNI - Module carrier

2904684

<https://www.phoenixcontact.com/pc/products/2904684>



Universal Termination Carrier for connecting 16 two-channel MACX Analog Ex i signal conditioners to digital or analog I/O cards, via two D-SUB connectors, 37-pos. (1:1 connection)

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## MPS-IH WH - Insulating sleeve

0201663

<https://www.phoenixcontact.com/pc/products/0201663>

Insulating sleeve, color: white



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## MPS-IH RD - Insulating sleeve

0201676

<https://www.phoenixcontact.com/pc/products/0201676>

Insulating sleeve, color: red



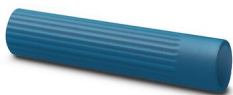
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## MPS-IH BU - Insulating sleeve

0201689

<https://www.phoenixcontact.com/pc/products/0201689>

Insulating sleeve, color: blue



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## MPS-IH YE - Insulating sleeve

0201692

<https://www.phoenixcontact.com/pc/products/0201692>

Insulating sleeve, color: yellow



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## MPS-IH GN - Insulating sleeve

0201702

<https://www.phoenixcontact.com/pc/products/0201702>

Insulating sleeve, color: green



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## MPS-IH GY - Insulating sleeve

0201728

<https://www.phoenixcontact.com/pc/products/0201728>

Insulating sleeve, color: gray



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## MPS-IH BK - Insulating sleeve

0201731

<https://www.phoenixcontact.com/pc/products/0201731>

Insulating sleeve, color: black



# MACX MCR-EX-SL-RPSSI-2I-1S-SP - Repeater power supply



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<https://www.phoenixcontact.com/pc/products/2908856>

## MPS-MT - Test plugs

0201744

<https://www.phoenixcontact.com/pc/products/0201744>



Test plugs, with solder connection up to 1 mm<sup>2</sup> conductor cross section, number of positions: 1, color: gray

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## UC-EMLP (11X9) - Plastic label

0819291

<https://www.phoenixcontact.com/pc/products/0819291>



Plastic label, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 10

# MACX MCR-EX-SL-RPSSI-2I-1S-SP - Repeater power supply



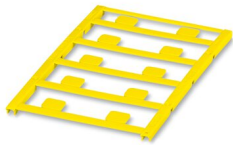
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## UC-EMLP (11X9) YE - Plastic label

0822602

<https://www.phoenixcontact.com/pc/products/0822602>



Plastic label, Sheet, yellow, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 10

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## UC-EMLP (11X9) CUS - Plastic label

0824547

<https://www.phoenixcontact.com/pc/products/0824547>



Plastic label, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: adhesive, lettering field size: 11 x 9 mm

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2908856

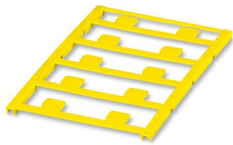
<https://www.phoenixcontact.com/pc/products/2908856>

## UC-EMLP (11X9) YE CUS - Plastic label

0824548

<https://www.phoenixcontact.com/pc/products/0824548>

Plastic label, can be ordered: by sheet, yellow, labeled according to customer specifications, mounting type: adhesive, lettering field size: 11 x 9 mm



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## UC-EMLP (11X9) SR - Plastic label

0828094

<https://www.phoenixcontact.com/pc/products/0828094>

Plastic label, Sheet, silver, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 10



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## UC-EMLP (11X9) SR CUS - Plastic label

0828098

<https://www.phoenixcontact.com/pc/products/0828098>



Plastic label, can be ordered: by sheet, silver, labeled according to customer specifications, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 10

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## US-EMLP (11X9) - Plastic label

0828789

<https://www.phoenixcontact.com/pc/products/0828789>



Plastic label, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 135

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## US-EMLP (11X9) YE - Plastic label

0828871

<https://www.phoenixcontact.com/pc/products/0828871>



Plastic label, Card, yellow, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 135

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## US-EMLP (11X9) SR - Plastic label

0828872

<https://www.phoenixcontact.com/pc/products/0828872>



Plastic label, Card, silver, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 135

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## LS-EMLP (11X9) WH - Device marker

0831678

<https://www.phoenixcontact.com/pc/products/0831678>

Device marker, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 255



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## LS-EMLP (11X9) SR - Device marker

0831705

<https://www.phoenixcontact.com/pc/products/0831705>

Device marker, Sheet, silver, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 255



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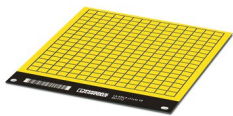
<https://www.phoenixcontact.com/pc/products/2908856>

## LS-EMLP (11X9) YE - Device marker

0831732

<https://www.phoenixcontact.com/pc/products/0831732>

Device marker, Sheet, yellow, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 255



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## MACX MCR-PTB - Power and error message module

2865625

<https://www.phoenixcontact.com/pc/products/2865625>

Power and fault signaling module with screw connection, including corresponding ME 17,5 TBUS 1,5/ 5-ST-3,81 GY DIN rail connector



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## MACX MCR-PTB-SP - Power and error message module

2924184

<https://www.phoenixcontact.com/pc/products/2924184>



Power and fault signaling module with Push-in connection, including corresponding ME 17,5 TBUS 1,5/ 5-ST-3,81 GY DIN rail connector

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## QUINT4-SYS-PS/1AC/24DC/2.5/SC - Power supply unit

2904614

<https://www.phoenixcontact.com/pc/products/2904614>



Primary-switched power supply, QUINT POWER, screw connection, DIN rail mounting, supply of devices possible via the TBUS DIN rail connector, protective coating, input: single-phase, output: 24 V DC/2.5 A

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## SZS 0,6X3,5 - Screwdriver

1205053

<https://www.phoenixcontact.com/pc/products/1205053>



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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