

# MACX MCR-EX-AP-RPSS-I-IR - Power/input isolating amplifier



1290774

<https://www.phoenixcontact.com/in/products/1290774>

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Ex i-Feed and input signal conditioner with 2 limit value relays, feeds 2-, 3-, and 4-conductor measuring transducer, transmits 1:1 passive or active 0 mA/4 mA ... 20 mA input signals and has 2 configurable limit value outputs. number of channels: 1, HART-transparent, Standard configuration, 4-way isolation, Safety Integrity Level (SIL, IEC 61508): 2, Screw connection

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1290774       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | *****         |
| Product key                          | DK121W        |
| GTIN                                 | 4063151521981 |
| Weight per piece (including packing) | 214.8 g       |
| Weight per piece (excluding packing) | 160 g         |
| Customs tariff number                | 85437090      |
| Country of origin                    | DE            |

# MACX MCR-EX-AP-RPSS-I-IR - Power/input isolating amplifier



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## Technical data

### Notes

|                    |                                                                                                                             |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Notes on operation | Installation conditions influence the ambient temperature. Please refer to the "Control cabinet installation instructions". |
| Notes on operation | Output behavior = input signal                                                                                              |

### Product properties

|                 |                       |
|-----------------|-----------------------|
| Product type    | Repeater power supply |
| Product family  | MACX Analog           |
| No. of channels | 1                     |

### Electrical properties

|                                  |                      |
|----------------------------------|----------------------|
| Electrical isolation             | 4-way isolation      |
| Linearity error                  | $\leq 0.1 \%$        |
| Typical offset error             | $\leq 0.1 \%$        |
| Signal transmission behavior     | In = Out             |
| Temperature coefficient, typical | $\leq 0.1 \%$ (10 K) |
| Reverse polarity protection      | yes                  |

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

|                          |                     |
|--------------------------|---------------------|
| Standards/regulations    | IEC/EN 60079-11     |
| Rated insulation voltage | 375 V <sub>PP</sub> |

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

|                          |                     |
|--------------------------|---------------------|
| Standards/regulations    | IEC/EN 60079-11     |
| Rated insulation voltage | 375 V <sub>PP</sub> |

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

|                          |                     |
|--------------------------|---------------------|
| Standards/regulations    | IEC/EN 60079-11     |
| Rated insulation voltage | 375 V <sub>PP</sub> |

#### Electrical isolation Input/limit value contact IEC/EN 60079-11

|                          |                     |
|--------------------------|---------------------|
| Standards/regulations    | IEC/EN 60079-11     |
| Rated insulation voltage | 375 V <sub>PP</sub> |

#### Electrical isolation Output/supply

|              |                     |
|--------------|---------------------|
| Test voltage | 350 V (50 Hz, 60 s) |
|--------------|---------------------|

#### Electrical isolation Output/limit value contact

|              |                     |
|--------------|---------------------|
| Test voltage | 350 V (50 Hz, 60 s) |
|--------------|---------------------|

#### Electrical isolation Output/supply/error message output

|              |                     |
|--------------|---------------------|
| Test voltage | 350 V (50 Hz, 60 s) |
|--------------|---------------------|

### Supply

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|                        |                              |
|------------------------|------------------------------|
| Nominal supply voltage | 24 V DC                      |
| Supply voltage range   | 18 V ... 31.2 V              |
| Power dissipation      | 1.5 W ( $R_L$ 250 $\Omega$ ) |
| Power consumption      | 2 W (20 mA)                  |

## Input data

Signal: Repeater power supply operation

|                          |                                                              |
|--------------------------|--------------------------------------------------------------|
| Description of the input | active and passive current input, intrinsically safe         |
| Input signal             | Current                                                      |
| Current input signal     | 4 mA ... 20 mA (with HART)<br>2 mA ... 22 mA (Function area) |
| Short-circuit current    | $\leq 35$ mA                                                 |
| Line fault detection     | < 3.6 mA (Line break)<br>> 21 mA (Short circuit)             |
| Non-load voltage         | $\leq 26$ V                                                  |

Signal: Signal conditioner operation

|                                |                                                              |
|--------------------------------|--------------------------------------------------------------|
| Description of the input       | Passive current input, intrinsically safe                    |
| Current input signal           | 4 mA ... 20 mA (with HART)<br>2 mA ... 22 mA (Function area) |
| Input resistance current input | > 250 $\Omega$ (for mA sources)                              |
| Input current                  | $\leq 50$ mA (for mA sources)                                |
| Short-circuit current          | $\leq 35$ mA                                                 |
| Line fault detection           | < 3.6 mA (Line break)<br>> 21 mA (Short circuit)             |
| Non-load voltage               | $\leq 26$ V                                                  |

## Output data

Signal: Error message output

|                           |        |
|---------------------------|--------|
| Maximum switching voltage | 30 V   |
| Max. switching current    | 100 mA |

Switching: Relay

|                        |                                                                |
|------------------------|----------------------------------------------------------------|
| Contact switching type | 2 N/O contacts                                                 |
| Max. switching current | $\leq 170$ mA (Resistive load)<br>$\leq 500$ mA ( $\leq 1$ ms) |
| Typical response time  | < 80 ms                                                        |
| Typical turn-off time  | < 100 ms                                                       |

Signal: Repeater power supply operation

|                       |                                                              |
|-----------------------|--------------------------------------------------------------|
| Output description    | Current output (active)                                      |
| Current output signal | 4 mA ... 20 mA (with HART)<br>2 mA ... 22 mA (Function area) |

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|                         |                                   |
|-------------------------|-----------------------------------|
| Load                    | 0 $\Omega$ ... 600 $\Omega$       |
| Output ripple (current) | $\leq 40 \mu\text{A}$ (effective) |

Signal: Signal conditioner operation

|                         |                                   |
|-------------------------|-----------------------------------|
| Output description      | Signal conditioner operation      |
| Current output signal   | 4 mA ... 20 mA (with HART)        |
|                         | 2 mA ... 22 mA (Function area)    |
| Load                    | 0 $\Omega$ ... 600 $\Omega$       |
| Output ripple (current) | $\leq 40 \mu\text{A}$ (effective) |

## Connection data

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Connection method                | Screw connection                            |
| Stripping length                 | 7 mm                                        |
| Screw thread                     | M3                                          |
| 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 AWG      | 24 ... 14                                   |

## Ex data

|                       |    |
|-----------------------|----|
| Ex installation (EPL) | Gc |
| Ex i circuits (EPL)   | Ga |
|                       | Da |
|                       | Ma |

Safety data: Repeater power supply operation (2-conductor measuring transducer)

|                                                                                              |                                                |
|----------------------------------------------------------------------------------------------|------------------------------------------------|
| Note                                                                                         | With connection of measuring transducers       |
| Max. internal inductance $L_i$                                                               | negligible                                     |
| Max. internal capacitance $C_i$                                                              | negligible                                     |
| Max. output voltage $U_o$                                                                    | 27 V                                           |
| Max. output current $I_o$                                                                    | 87.9 mA                                        |
| Max. output power $P_o$                                                                      | 574 mW                                         |
| Safety-related maximum voltage $U_m$                                                         | 253 V AC                                       |
| IIB/IIIC (simple circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$ | 14 mH / 705 nF                                 |
| IIC (simple circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$      | 2.3 mH / 90 nF                                 |
| IIB/IIIC (mixed circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$  | 10 mH / 290 nF, 1 mH / 380 nF, 0.2 mH / 600 nF |
| IIC (mixed circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$       | 1 mH / 56 nF, 0.5 mH / 72 nF, 0.2 mH / 90 nF   |

Safety data: Repeater power supply operation (3-conductor measuring transducer)

|                                 |                                          |
|---------------------------------|------------------------------------------|
| Note                            | With connection of measuring transducers |
| Max. internal inductance $L_i$  | negligible                               |
| Max. internal capacitance $C_i$ | negligible                               |

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|                                                                                              |                                                |
|----------------------------------------------------------------------------------------------|------------------------------------------------|
| Max. output voltage $U_o$                                                                    | 27 V                                           |
| Max. output current $I_o$                                                                    | 88.3 mA                                        |
| Max. output power $P_o$                                                                      | 574 mW                                         |
| Safety-related maximum voltage $U_m$                                                         | 253 V AC                                       |
| IIB/IIIC (simple circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$ | 14 mH / 705 nF                                 |
| IIC (simple circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$      | 2.3 mH / 90 nF                                 |
| IIB/IIIC (mixed circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$  | 10 mH / 290 nF, 1 mH / 380 nF, 0.2 mH / 600 nF |
| IIC (mixed circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$       | 1 mH / 56 nF, 0.5 mH / 72 nF, 0.2 mH / 90 nF   |

## Safety data: Signal conditioner operation

|                                 |                                  |
|---------------------------------|----------------------------------|
| Note                            | With connection of power sources |
| Input voltage $U_i$             | 30 V                             |
| Input current $I_i$             | 100 mA                           |
| Max. internal inductance $L_i$  | negligible                       |
| Max. internal capacitance $C_i$ | negligible                       |
| Max. output voltage $U_o$       | 4.1 V                            |
| Max. output current $I_o$       | 0 mA                             |
| Max. output power $P_o$         | 0 mW                             |

## Interfaces

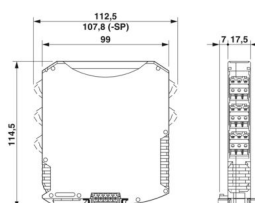
### Data communication (bypass)

|                           |                                                      |
|---------------------------|------------------------------------------------------|
| Protocols supported       | HART-transparent                                     |
| Frequency measuring range | 0.5 kHz ... 10 kHz (bidirectional HART transmission) |

## Signaling

|                |                              |
|----------------|------------------------------|
| Status display | Green LED (supply voltage)   |
|                | LED yellow (switching state) |
|                | Red LED (line errors)        |

## Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 17.5 mm                                                                              |
| Height              | 112.5 mm                                                                             |
| Depth               | 113.7 mm                                                                             |

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|                 |                                                                        |
|-----------------|------------------------------------------------------------------------|
| 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 material                       | PA 6.6 |

## Environmental and real-life conditions

### Ambient conditions

|                                         |                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Degree of protection                    | IP20 (Terminal blocks)<br>IP30 (Housing)                                                                                                                                                                                                                                                                                                                                                   |
| Ambient temperature (operation)         | -40 °C ... 70 °C (Stand-alone device: any mounting position)<br>-40 °C ... 48 °C (Group assembly: vertical DIN rail without circulating air)<br>-40 °C ... 58 °C (Group assembly: vertical DIN rail with circulating air)<br>-40 °C ... 56 °C (Group assembly: horizontal DIN rail without circulating air)<br>-40 °C ... 60 °C (Group assembly: horizontal DIN rail with circulating air) |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C                                                                                                                                                                                                                                                                                                                                                                           |
| Altitude                                | ≤ 2000 m                                                                                                                                                                                                                                                                                                                                                                                   |
| Permissible humidity (operation)        | ≤ 95 % (non-condensing)                                                                                                                                                                                                                                                                                                                                                                    |

## Approvals

### ATEX

|                |                                                                                                                             |
|----------------|-----------------------------------------------------------------------------------------------------------------------------|
| Identification | ⚡ II (1) G [Ex ia Ga] IIC<br>⚡ II (1) D [Ex ia Da] IIIC<br>⚡ II 3 (1) G Ex nA nC [ia Ga] IIC T4 Gc<br>⚡ I (M1) [Ex ia Ma] I |
|----------------|-----------------------------------------------------------------------------------------------------------------------------|

### IECEx

|                |                                                                                 |
|----------------|---------------------------------------------------------------------------------|
| Identification | [Ex ia Ga] IIC<br>[Ex ia Da] IIIC<br>Ex nA nC [ia Ga] IIC T4 Gc<br>[Ex ia Ma] I |
|----------------|---------------------------------------------------------------------------------|

### Safety Integrity Level (SIL, IEC 61508)

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

## EMC data

|                               |                                                                                                               |
|-------------------------------|---------------------------------------------------------------------------------------------------------------|
| Electromagnetic compatibility | Tested in accordance with the following standards and regulations: EN 61326-1 For industrial use, NAMUR NE 21 |
|-------------------------------|---------------------------------------------------------------------------------------------------------------|

## Standards and regulations

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|                      |                 |
|----------------------|-----------------|
| Electrical isolation | 4-way isolation |
|----------------------|-----------------|

## Mounting

|                   |                      |
|-------------------|----------------------|
| Mounting type     | NS 35/15, NS 35/7,5  |
| Mounting position | vertical, horizontal |

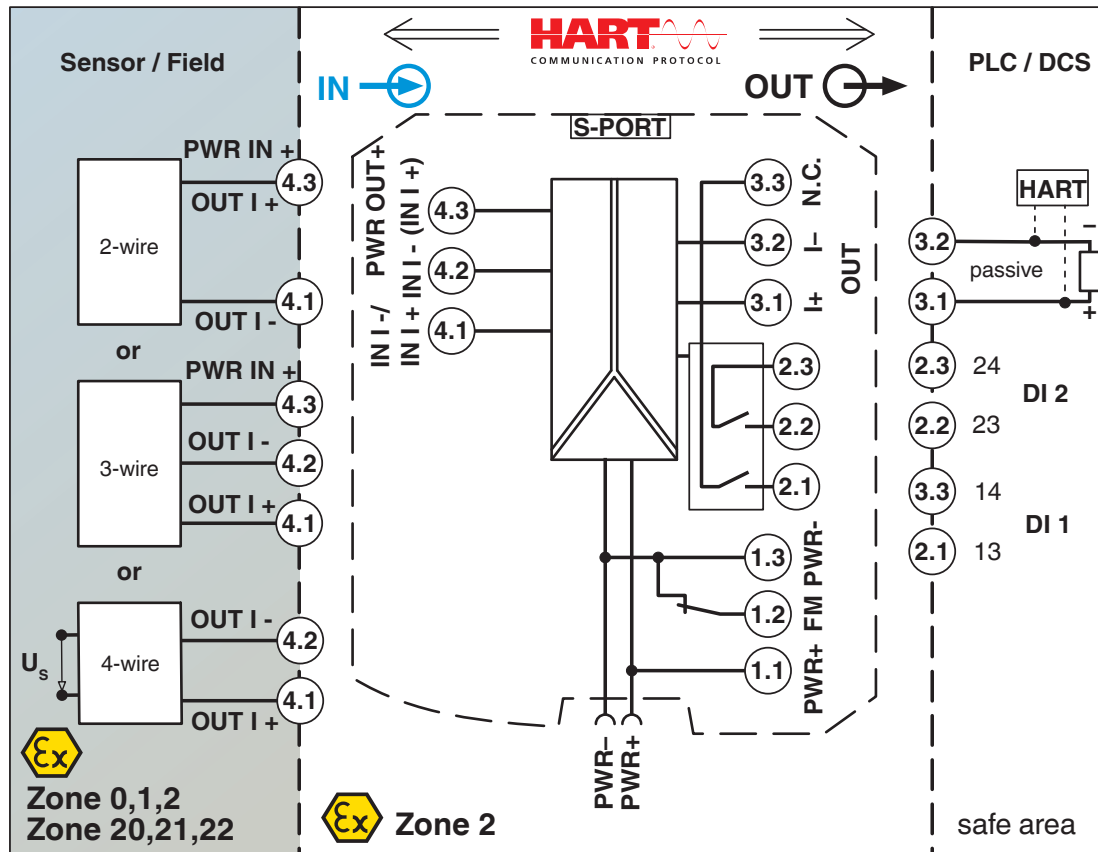
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## Drawings

Block diagram



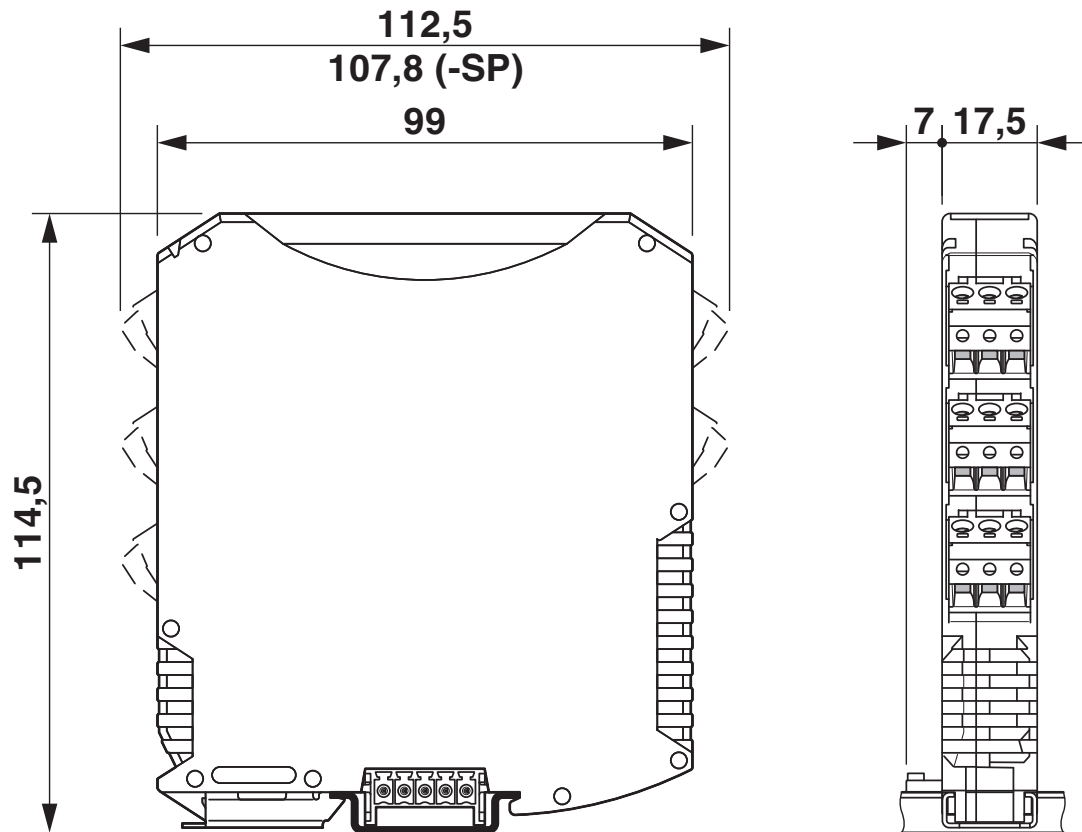
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Dimensional drawing



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## Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1290774>

### Functional Safety

Approval ID: 22/05-248 R030 V1R0



### IECEx

Approval ID: IECEx BVS 21.0020X



### ATEX

Approval ID: BVS 21 ATEX E 018X

# MACX MCR-EX-AP-RPSS-I-IR - Power/input isolating amplifier



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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002653 |
|----------|----------|

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## Environmental product compliance

### EU RoHS

|                                         |                    |
|-----------------------------------------|--------------------|
| Fulfills EU RoHS substance requirements | Yes                |
| Exemption                               | 6(c), 7(a), 7(c)-I |

### China RoHS

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-50                                                                                                                                                                                                                           |
|                                        | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | 5c70f3a0-d3d5-4e67-878e-c81daa193ad7 |

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## Accessories

### IFS-USB-PROG-ADAPTER - Programming adapter

2811271

<https://www.phoenixcontact.com/in/products/2811271>



Programming adapter with USB interface, for programming with software. The USB driver is included in the software solutions for the products to be programmed, such as measuring transducers or motor managers.

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### GW HART USB MODEM - Cable adapter

1003824

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



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

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

2865625

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



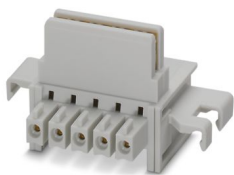
Primary-switched power supply, QUINT POWER, screw connection, DIN rail mounting, supply of devices possible via the TBUS DIN rail connector, protective coating, input: single-phase, output: 24 V DC/2.5 A

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## ME 17,5 TBUS 1,5/ 5-ST-3,81 GY - DIN rail bus connectors

1090049

<https://www.phoenixcontact.com/in/products/1090049>



DIN rail connector, color: gray, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, product range: TBUS5-17,5..., pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting method: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 5 parallel contacts

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## ME-TBUS-A MC 1,5-2 - DIN rail bus connectors

1351974

<https://www.phoenixcontact.com/in/products/1351974>



DIN rail connector adapter (2-pos.) for connection of MACX MCR-EX-AP ... devices on the right side to the MACX MCR-PTB(-SP) power module with DIN rail connector ME 17,5 TBUS 1,5/5-ST-3,81 GY for bridging the supply voltage.

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## ME-TBUS-A IMC1,5-2 - DIN rail bus connectors

1351982

<https://www.phoenixcontact.com/in/products/1351982>



DIN rail connector adapter (2-pos.) for connection of MACX MCR-EX-AP... devices on the left side to the MACX MCR-PTB(-SP) power module with DIN rail connector ME 17,5 TBUS 1,5/5-ST-3,81 GY for bridging the supply voltage.

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## MCR-DP - Separating plate

1430594

<https://www.phoenixcontact.com/in/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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## MPS-IH WH - Insulating sleeve

0201663

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

Insulating sleeve, color: white



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## MPS-IH RD - Insulating sleeve

0201676

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

Insulating sleeve, color: red



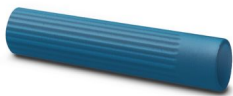
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## MPS-IH BU - Insulating sleeve

0201689

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

Insulating sleeve, color: blue



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## MPS-IH YE - Insulating sleeve

0201692

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

Insulating sleeve, color: yellow



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## MPS-IH GN - Insulating sleeve

0201702

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

Insulating sleeve, color: green



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## MPS-IH GY - Insulating sleeve

0201728

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

Insulating sleeve, color: gray



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## MPS-IH BK - Insulating sleeve

0201731

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

Insulating sleeve, color: black



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## MPS-MT - Test plug

0201744

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



Test plug, 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/in/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, Number of individual labels: 10, text field height: 9 mm, text field width: 11 mm

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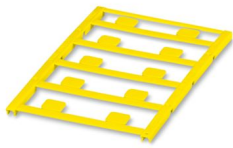
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## UC-EMLP (11X9) YE - Plastic label

0822602

<https://www.phoenixcontact.com/in/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, Number of individual labels: 10, text field height: 9 mm, text field width: 11 mm

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

0824547

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



Plastic label, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: adhesive, text field height: 9 mm, text field width: 11 mm

# MACX MCR-EX-AP-RPSS-I-IR - Power/input isolating amplifier



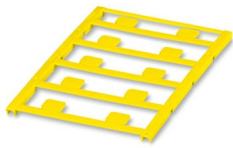
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## UC-EMLP (11X9) YE CUS - Plastic label

0824548

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



Plastic label, can be ordered: by sheet, yellow, labeled according to customer specifications, mounting type: adhesive, text field height: 9 mm, text field width: 11 mm

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

0828094

<https://www.phoenixcontact.com/in/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, Number of individual labels: 10, text field height: 9 mm, text field width: 11 mm

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<https://www.phoenixcontact.com/in/products/1290774>

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

0828098

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



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

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

0828789

<https://www.phoenixcontact.com/in/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, Number of individual labels: 135, text field height: 9 mm, text field width: 11 mm

# MACX MCR-EX-AP-RPSS-I-IR - Power/input isolating amplifier



1290774

<https://www.phoenixcontact.com/in/products/1290774>

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

0828871

<https://www.phoenixcontact.com/in/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, Number of individual labels: 135, text field height: 9 mm, text field width: 11 mm

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

0828872

<https://www.phoenixcontact.com/in/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, Number of individual labels: 135, text field height: 9 mm, text field width: 11 mm

# MACX MCR-EX-AP-RPSS-I-IR - Power/input isolating amplifier



1290774

<https://www.phoenixcontact.com/in/products/1290774>

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

0831678

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

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



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

0831705

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

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



# MACX MCR-EX-AP-RPSS-I-IR - Power/input isolating amplifier



1290774

<https://www.phoenixcontact.com/in/products/1290774>

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

0831732

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

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



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## SZS 0,6X3,5 - Screwdriver

1205053

<https://www.phoenixcontact.com/in/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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