

# MACX MCR-EX-SL-NAM-NAM - Isolation amplifier



2866006

<https://www.phoenixcontact.com/us/products/2866006>

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Ex i NAMUR signal conditioner for operating Ex i proximity sensors and switches in the Ex area. Passive transistor output (resistive in accordance with EN 60947-5-6), line fault transparency, up to SIL 2 in accordance with IEC 61508, screw connection

## Your advantages

- Signal input: intrinsically safe [Ex ia]; for NAMUR proximity sensors (EN 60947-5-6) or switch contacts
- Signal output with resistive behavior (transistor), according to EN 60947-5-6
- Signal output with line fault transparency, line fault indication directly via the signal output to SPS or PLS
- Up to 5 kHz switching frequency
- Direction of operation can be selected
- Line fault detection (LFD) can be enabled and disabled
- SIL 2 according to IEC/EN 61508
- 3-way electrical isolation
- Power supply and error indication possible via DIN rail connector
- Plug-in connection terminals, screw connection technology
- Installation in zone 2 permitted
- Housing width: 12.5 mm

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2866006             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | C430                |
| Product key                          | CK3141              |
| Catalog page                         | Page 160 (C-5-2019) |
| GTIN                                 | 4046356667876       |
| Weight per piece (including packing) | 178.5 g             |
| Weight per piece (excluding packing) | 150 g               |
| Customs tariff number                | 85365019            |
| Country of origin                    | DE                  |

## Technical data

### Notes

#### Utilization restriction

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

### Product properties

|                 |                                                     |
|-----------------|-----------------------------------------------------|
| Product type    | Isolating switch transf.                            |
| Product family  | MACX Analog                                         |
| No. of channels | 1                                                   |
| Type            | Ex i signal conditioners with SIL functional safety |
| Configuration   | DIP switches                                        |

#### Insulation characteristics: GB Standard

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Pollution degree     | 2  |

### System properties

#### Functionality

|               |              |
|---------------|--------------|
| Configuration | DIP switches |
|---------------|--------------|

### Electrical properties

|                                               |                 |
|-----------------------------------------------|-----------------|
| Electrical isolation                          | 3-way isolation |
| Electrical isolation between input and output | yes             |

#### Electrical isolation Input/output

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| Electrical isolation | 375 V (Peak value in accordance with IEC/EN 60079-11) |
|----------------------|-------------------------------------------------------|

#### Electrical isolation Input/output/supply, DIN rail connector

|                          |                                                  |
|--------------------------|--------------------------------------------------|
| Rated insulation voltage | 300 V <sub>rms</sub>                             |
| Test voltage             | 2.5 kV AC (50 Hz, 60 s)                          |
| Insulation               | Safe isolation in accordance with IEC/EN 61010-1 |

#### Electrical isolation Input/supply, DIN rail connector

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| Electrical isolation | 375 V (Peak value in accordance with IEC/EN 60079-11) |
|----------------------|-------------------------------------------------------|

#### Supply

|                        |                                                              |
|------------------------|--------------------------------------------------------------|
| Nominal supply voltage | 24 V DC                                                      |
| Supply voltage range   | 9.6 V DC ... 30 V DC (12 V DC ... 24 V DC (-20 % ... +25 %)) |
| Power dissipation      | < 0.6 W                                                      |
| Power consumption      | < 600 mW                                                     |

### Input data

Signal: NAMUR

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|                                         |                                                 |
|-----------------------------------------|-------------------------------------------------|
| Description of the input                | Intrinsically safe                              |
| Number of inputs                        | 1                                               |
| Available input sources                 | NAMUR proximity sensors (IEC/EN 60947-5-6)      |
|                                         | Floating switch contacts                        |
|                                         | Switch contacts with resistance circuit         |
| Switching threshold "0" signal current  | < 1.2 mA (blocking)                             |
| Switching threshold "1" signal, current | > 2.1 mA (conductive)                           |
| Switching hysteresis                    | < 0.2 mA                                        |
| Line fault detection                    | < 0.05 mA ... 0.35 mA (Line break)              |
|                                         | < 100 $\Omega$ ... 360 $\Omega$ (Short circuit) |
|                                         | Activated /deactivated via DIP switch           |
| Non-load voltage                        | 8 V DC $\pm$ 10 %                               |

## Output data

### Switching: Transistor

|                     |         |
|---------------------|---------|
| Output description  | passive |
| Switching frequency | 5 kHz   |

### Signal

|                   |   |
|-------------------|---|
| Number of outputs | 1 |
|-------------------|---|

## 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                                   |
| Tightening torque                | 0.5 Nm ... 0.6 Nm                           |

### Test socket

|               |        |
|---------------|--------|
| Max. diameter | 2.3 mm |
|---------------|--------|

## Ex data

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

### Safety data

|                                 |            |
|---------------------------------|------------|
| Max. internal inductance $L_i$  | negligible |
| Max. internal capacitance $C_i$ | negligible |
| Max. output voltage $U_o$       | 9.6 V      |

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|                                                                                                 |                                                                                    |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Max. output current $I_o$                                                                       | 10 mA                                                                              |
| Max. output power $P_o$                                                                         | 25 mW                                                                              |
| Safety-related maximum voltage $U_m$                                                            | 253 V AC                                                                           |
|                                                                                                 | 125 V DC                                                                           |
| IIA (simple circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$         | 1000 mH / 210 $\mu$ F                                                              |
| IIB/IIIC (simple circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$    | 1000 mH / 26 $\mu$ F                                                               |
| IIC (simple circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$         | 300 mH / 3.6 $\mu$ F                                                               |
| IIB/IIA/IIIC (mixed circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$ | 100 mH / 1 $\mu$ F, 5 mH / 1 $\mu$ F, 1 mH / 1 $\mu$ F, 10 $\mu$ H / 1 $\mu$ F     |
| IIC (mixed circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$          | 100 mH / 510 nF, 50 mH / 580 nF, 5 mH / 600 nF, 1 mH / 600 nF, 10 $\mu$ H / 600 nF |

## Interfaces

### Data

|                 |   |
|-----------------|---|
| No. of channels | 0 |
|-----------------|---|

## Signaling

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

## Dimensions

|                     |                                                                        |
|---------------------|------------------------------------------------------------------------|
| Dimensional drawing |                                                                        |
| Width               | 12.5 mm                                                                |
| Height              | 112.5 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

|                                        |                 |
|----------------------------------------|-----------------|
| Color                                  | gray (RAL 7042) |
| Flammability rating according to UL 94 | V0 (Housing)    |
| Housing material                       | PA 6.6-FR       |

## Characteristics

### Safety data

|                              |   |
|------------------------------|---|
| Safety Integrity Level (SIL) | 2 |
|------------------------------|---|

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## Safety data

|                              |   |
|------------------------------|---|
| Safety Integrity Level (SIL) | 2 |
|------------------------------|---|

## Environmental and real-life conditions

### Ambient conditions

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| Degree of protection                    | IP20 (not assessed by UL)                |
| Ambient temperature (operation)         | -40 °C ... 70 °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        | 265 V AC/DC ( $U_{\text{Isolation "ec"}}$ : 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)                                         |
| Safety-related maximum voltage $U_m$ | 190 V AC                                                            |
|                                      | 110 V DC                                                            |
| Rated insulation voltage             | 190 V AC/DC ( $U_{\text{Isolation "ec"}}$ : 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)                                        |
| Safety-related maximum voltage $U_m$ | 60 V                                                               |
| Rated insulation voltage             | 60 V AC/DC ( $U_{\text{Isolation "ec"}}$ : 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)                                        |
| Safety-related maximum voltage $U_m$ | 60 V                                                               |
| Rated insulation voltage             | 60 V AC/DC ( $U_{\text{Isolation "ec"}}$ : Supply, input / output) |

## Approvals

### CE

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

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## ATEX

|                |                                     |
|----------------|-------------------------------------|
| Identification | ⊕ II (1) G [Ex ia Ga] IIC           |
|                | ⊕ II (1) D [Ex ia Da] IIIC          |
|                | ⊕ II 3(1) G Ex ec [ia Ga] IIC T4 Gc |
|                | ⊕ I (M1) [Ex ia Ma] I               |
| Certificate    | IBExU 08 ATEX 1100 X                |

## UKCA Ex (UKEX)

|                |                                      |
|----------------|--------------------------------------|
| Identification | ⊕ I (M1) [Ex ia Ma] I                |
|                | ⊕ II (1) G [Ex ia Ga] IIC            |
|                | ⊕ II (1) D [Ex ia Da] IIIC           |
|                | ⊕ II 3 (1) G Ex ec [ia Ga] IIC T4 Gc |
| Certificate    | CML 22UKEX3527X                      |

## IECEx

|                |                         |
|----------------|-------------------------|
| Identification | [Ex ia Ga] IIC          |
|                | [Ex ia Da] IIIC         |
|                | Ex ec [ia Ga] IIC T4 Gc |
|                | [Ex ia Ma] I            |
| Certificate    | IECEx IBE 08.0005X      |

## CCC / China-Ex

|                |                         |
|----------------|-------------------------|
| Identification | [Ex ia Ga] IIC          |
|                | [Ex iaD]                |
|                | Ex nA [ia Ga] IIC T4 Gc |
| Certificate    | NEPSI GYJ20.1314X       |

## UL, USA/Canada

|                |                      |
|----------------|----------------------|
| Identification | UL 61010 Listed      |
| Certificate    | ⓈⓂⓂ C.D.-No 83104549 |

## Shipbuilding approval

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

## Safety Integrity Level (SIL, IEC 61508)

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

## INMETRO

|                |                         |
|----------------|-------------------------|
| Identification | [Ex ia Ga] IIC          |
|                | [Ex ia Da] IIIC         |
|                | Ex ec [ia Ga] IIC T4 Gc |
|                | [Ex ia Ma] I            |
| Certificate    | DNV 18.0141 X           |

## DNV GL data

|             |   |
|-------------|---|
| Temperature | B |
| Humidity    | B |

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|           |                                                                                         |
|-----------|-----------------------------------------------------------------------------------------|
| 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                   |
| Electromagnetic compatibility | Conformance with EMC directive |
| Noise emission                | EN 61000-6-4                   |

### Standards and regulations

|                      |                 |
|----------------------|-----------------|
| Electrical isolation | 3-way isolation |
|----------------------|-----------------|

#### GB Standard

|                       |            |
|-----------------------|------------|
| Standards/regulations | GB 3626.20 |
|                       | GB 3836.1  |
|                       | GB 3836.4  |
|                       | GB 3836.8  |
|                       | GB 12476.1 |
|                       | GB 12476.4 |

### Mounting

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

# MACX MCR-EX-SL-NAM-NAM - Isolation amplifier

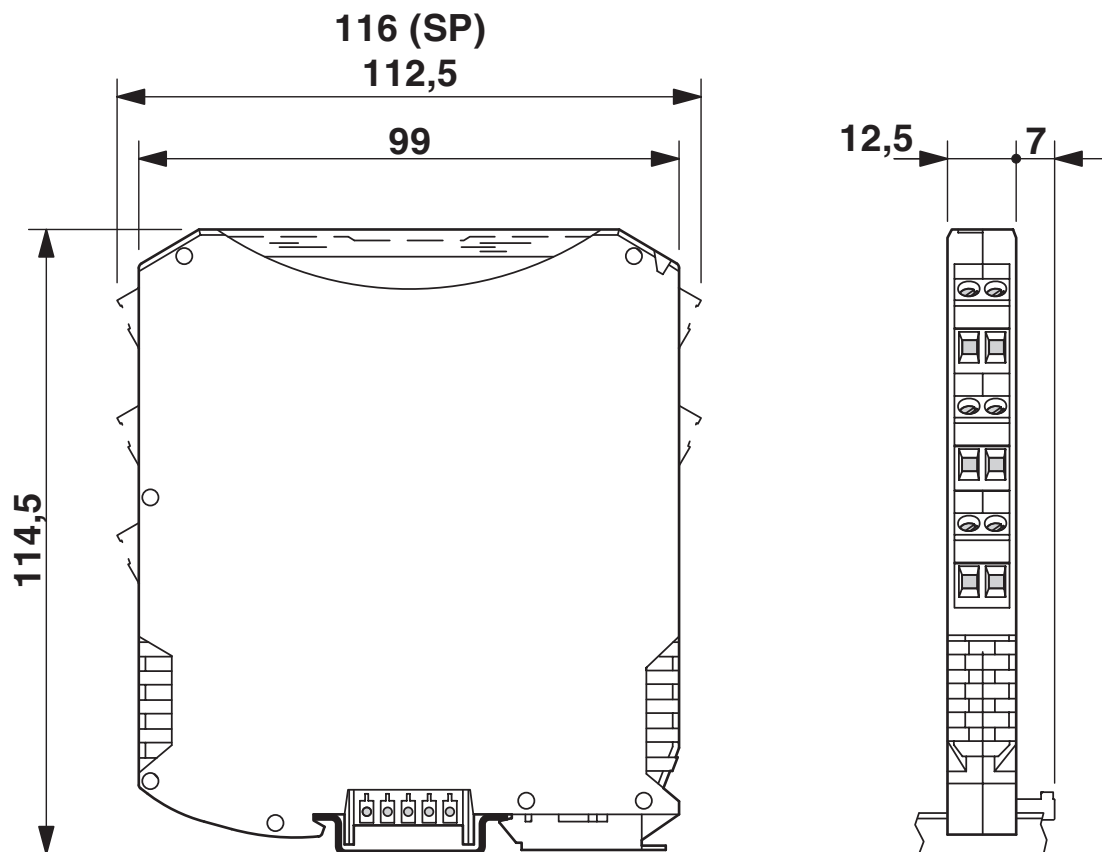
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## Drawings

Dimensional drawing





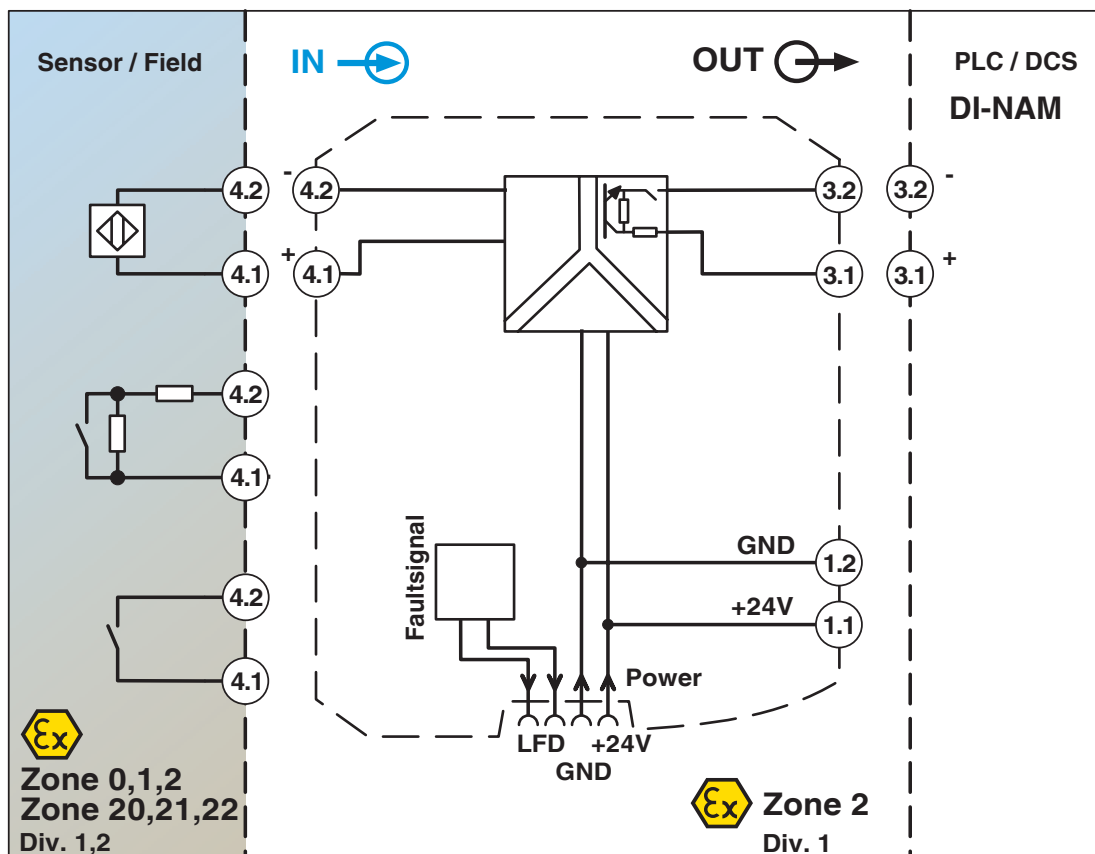
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Block diagram



# MACX MCR-EX-SL-NAM-NAM - Isolation amplifier



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<https://www.phoenixcontact.com/us/products/2866006>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2866006>



**DNV GL**

Approval ID: TAA000020C



**UL Listed**

Approval ID: FILE E 330267



**CCC**

Approval ID: 2020322 316001584

**Functional Safety**

Approval ID: 12/06-054 R016 V2R0



**EAC Ex**

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



**IECEx**

Approval ID: IECEx IBE 08.0005X



**cUL Listed**

Approval ID: FILE E 199827



**UL Listed**

Approval ID: FILE E 199827



**ATEX**

Approval ID: IBExU 08 ATEX 1100

**INMETRO**

Approval ID: DNV 18.0141 X



**IECEx**

Approval ID: IECEx IBE 12.0018X

# MACX MCR-EX-SL-NAM-NAM - Isolation amplifier



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**ATEX**

Approval ID: IBExU 12 ATEX 1169

**cULus Listed**

# MACX MCR-EX-SL-NAM-NAM - Isolation amplifier



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<https://www.phoenixcontact.com/us/products/2866006>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27210121 |
| ECLASS-12.0 | 27210121 |
| ECLASS-13.0 | 27210121 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001485 |
|----------|----------|

### UNSPSC

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

Environmental product compliance

|                                         |                                                                                                                                                                                                                                   |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS                                 |                                                                                                                                                                                                                                   |
| Fulfills EU RoHS substance requirements | Yes                                                                                                                                                                                                                               |
| Exemption                               | 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                                    | b88f1bb7-80e8-46ad-b2f0-9832b8a47e2e                                                                                                                                                                                              |

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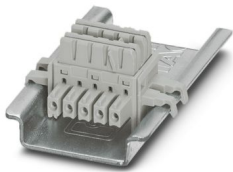
## Accessories

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

2695439

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



### TC-D37SUB-ADIO16-EX-P-UNI - Module carrier

2924854

<https://www.phoenixcontact.com/us/products/2924854>

Universal termination carrier for connecting 16 MACX Analog Ex i signal conditioners to digital or analog I/O cards, via D-SUB connector, 37-pos. (1:1 connection)



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## EA-MSTB 2,5/ 5 - Accessories

1831016

<https://www.phoenixcontact.com/us/products/1831016>

Cover for screw shafts of the MSTB connector ranges with a pitch of 5.0 mm and 5.08 mm. These can be aligned and shortened for use with different numbers of positions.



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## MPS-IH WH - Insulating sleeve

0201663

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

Insulating sleeve, color: white



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<https://www.phoenixcontact.com/us/products/2866006>

## MPS-IH RD - Insulating sleeve

0201676

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

Insulating sleeve, color: red



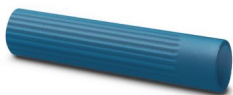
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## MPS-IH BU - Insulating sleeve

0201689

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

Insulating sleeve, color: blue





# MACX MCR-EX-SL-NAM-NAM - Isolation amplifier



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## MPS-IH YE - Insulating sleeve

0201692

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

Insulating sleeve, color: yellow



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## MPS-IH GN - Insulating sleeve

0201702

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

Insulating sleeve, color: green



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## MPS-IH GY - Insulating sleeve

0201728

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

Insulating sleeve, color: gray



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## MPS-IH BK - Insulating sleeve

0201731

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

Insulating sleeve, color: black



# MACX MCR-EX-SL-NAM-NAM - Isolation amplifier



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## MPS-MT - Test plug

0201744

<https://www.phoenixcontact.com/us/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/us/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-NAM-NAM - Isolation amplifier



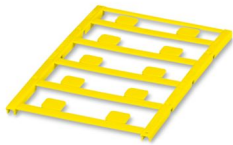
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## UC-EMLP (11X9) YE - Plastic label

0822602

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

# MACX MCR-EX-SL-NAM-NAM - Isolation amplifier



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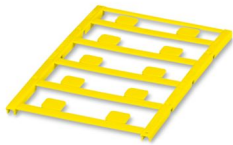
<https://www.phoenixcontact.com/us/products/2866006>

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

0824548

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



# MACX MCR-EX-SL-NAM-NAM - Isolation amplifier



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

0828098

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

# MACX MCR-EX-SL-NAM-NAM - Isolation amplifier



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<https://www.phoenixcontact.com/us/products/2866006>

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

0828871

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

# MACX MCR-EX-SL-NAM-NAM - Isolation amplifier



2866006

<https://www.phoenixcontact.com/us/products/2866006>

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

0831678

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



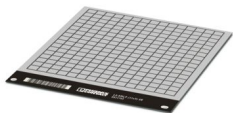
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## LS-EMLP (11X9) SR - Device marker

0831705

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





# MACX MCR-EX-SL-NAM-NAM - Isolation amplifier



2866006

<https://www.phoenixcontact.com/us/products/2866006>

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

0831732

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



# MACX MCR-EX-SL-NAM-NAM - Isolation amplifier



2866006

<https://www.phoenixcontact.com/us/products/2866006>

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

2924184

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

# MACX MCR-EX-SL-NAM-NAM - Isolation amplifier



2866006

<https://www.phoenixcontact.com/us/products/2866006>

## D-UKK 3/5 - End cover

2770024

<https://www.phoenixcontact.com/us/products/2770024>

End cover, depth: 52 mm, width: 2.5 mm, height: 56 mm, color: gray



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## D-UKK 3/5 BU - End cover

2770105

<https://www.phoenixcontact.com/us/products/2770105>

End cover, depth: 62 mm, width: 2.5 mm, height: 56 mm, color: blue



# MACX MCR-EX-SL-NAM-NAM - Isolation amplifier

2866006

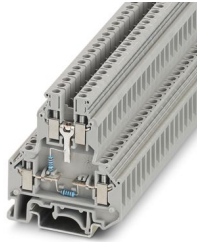
<https://www.phoenixcontact.com/us/products/2866006>



## UKK 5-2R/NAMUR - Component terminal block

2941662

<https://www.phoenixcontact.com/us/products/2941662>



Double-level terminal block, with preassembled resistors

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## SZS 0,6X3,5 - Screwdriver

1205053

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