

# MACX MCR-EX-SL-2NAM-R-UP - Isolation amplifier



2865984

<https://www.phoenixcontact.com/us/products/2865984>

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2-channel Ex i NAMUR signal conditioner with wide range power supply for proximity sensors and switches. In terms of signal output, for each channel there is a relay with a changeover contact available. Fault detection (LFD), 3-way isolation, SIL 2.

## Your advantages

- Up to SIL 2 in accordance with EN 61508
- Installation in zone 2, protection type "n" (EN 60079-15) permitted
- Line fault detection (LFD), can be activated/deactivated, error indicated by flashing red LED with de-excitation of output relay
- Signal output relay (changeover contact)
- 3-way electrical isolation
- LED indicators for supply voltage, switching state, and malfunction in accordance with NAMUR NE 44
- Direction of operation can be selected (operating or closed circuit current behavior)
- Wide-range power supply of 19.2 ... 253 V AC/DC
- 2-channel
- Input for NAMUR proximity sensors (EN 60947-5-6), floating contacts or contacts with resistance circuit, [Ex ia] IIC

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2865984             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | C430                |
| Product key                          | CK3141              |
| Catalog page                         | Page 157 (C-5-2019) |
| GTIN                                 | 4046356462532       |
| Weight per piece (including packing) | 209.6 g             |
| Weight per piece (excluding packing) | 100 g               |
| Customs tariff number                | 85365019            |
| Country of origin                    | DE                  |

## Technical data

## Product properties

|                 |                                                     |
|-----------------|-----------------------------------------------------|
| Product type    | Isolating switch transf.                            |
| Product family  | MACX Analog                                         |
| No. of channels | 2                                                   |
| Type            | Ex i signal conditioners with SIL functional safety |
| Configuration   | DIP switches                                        |

## System properties

## Functionality

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

## Electrical properties

|                                                 |                                  |
|-------------------------------------------------|----------------------------------|
| Electrical isolation                            | 3-way isolation                  |
| Electrical isolation between input and output   | yes                              |
| Maximum power dissipation for nominal condition | $\leq 1.3 \text{ W}$             |
| Step response (10-90%)                          | typ. 6 ms (N/O contact: OFF/ON)  |
|                                                 | typ. 6 ms (N/O contact: ON/OFF)  |
|                                                 | typ. 4 ms (N/C contact: ON/OFF)  |
|                                                 | typ. 10 ms (N/C contact: OFF/ON) |

## Electrical isolation

|              |                         |
|--------------|-------------------------|
| Test voltage | 2.5 kV AC (50 Hz, 60 s) |
|--------------|-------------------------|

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

|                          |                     |
|--------------------------|---------------------|
| Standards/regulations    | IEC/EN 60079-11     |
| Rated insulation voltage | 375 V <sub>PP</sub> |
| Overvoltage category     | III                 |
| Pollution degree         | 2                   |

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

|                          |                     |
|--------------------------|---------------------|
| Standards/regulations    | IEC/EN 60079-11     |
| Rated insulation voltage | 375 V <sub>PP</sub> |
| Overvoltage category     | II                  |
| Pollution degree         | 2                   |

## Electrical isolation Input/power supply IEC/EN 61010-1

|                          |                      |
|--------------------------|----------------------|
| Standards/regulations    | IEC/EN 61010-1       |
| Rated insulation voltage | 300 V <sub>rms</sub> |
| Overvoltage category     | II                   |
| Pollution degree         | 2                    |
| Insulation               | Safe isolation       |

## Electrical isolation Output 1/output 2/input, power supply IEC/EN 61010-1

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|                          |                      |
|--------------------------|----------------------|
| Standards/regulations    | IEC/EN 61010-1       |
| Rated insulation voltage | 300 V <sub>rms</sub> |
| Overvoltage category     | III                  |
| Pollution degree         | 2                    |
| Insulation               | Safe isolation       |

## Supply

|                              |                                                       |
|------------------------------|-------------------------------------------------------|
| Nominal supply voltage range | 24 V AC/DC ... 230 V AC/DC -20 % ... +10 % (50/60 Hz) |
| Supply voltage range         | 19.2 V AC/DC ... 253 V AC/DC (50/60 Hz)               |
| Max. current consumption     | < 80 mA<br>< 42 mA (24 V DC)                          |
| Power dissipation            | < 1.1 W                                               |
| Power consumption            | < 1.1 W                                               |

## Input data

Signal: NAMUR

|                                         |                                                                                                                   |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Description of the input                | Intrinsically safe                                                                                                |
| Number of inputs                        | 2                                                                                                                 |
| Available input sources                 | NAMUR proximity sensors (IEC/EN 60947-5-6)<br>Floating switch contacts<br>Switch contacts with resistance circuit |
| Switching threshold "0" signal current  | < 1.2 mA (blocking)                                                                                               |
| Switching threshold "1" signal, current | > 2.1 mA (conductive)                                                                                             |
| Short-circuit current                   | 8 mA                                                                                                              |
| Switching hysteresis                    | < 0.2 mA                                                                                                          |
| Line fault detection                    | < 0.05 mA ... 0.35 mA (Line break)<br>< 100 Ω ... 360 Ω (Short circuit)<br>Activated /deactivated via DIP switch  |
| Non-load voltage                        | 8 V DC                                                                                                            |

## Output data

Switching: Relay

|                            |                                                            |
|----------------------------|------------------------------------------------------------|
| Contact switching type     | 1 changeover contact per channel                           |
| Contact material           | AgSnO <sub>2</sub> , hard gold-plated                      |
| Maximum switching voltage  | 250 V AC (2 A, 60 Hz)<br>120 V DC (0.2 A)<br>30 V DC (2 A) |
| Maximum switching capacity | 500 VA                                                     |
| Recommended minimum load   | 5 V / 10 mA                                                |

Signal

|                   |   |
|-------------------|---|
| Number of outputs | 2 |
|-------------------|---|

## Connection data

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|                                  |                                             |
|----------------------------------|---------------------------------------------|
| 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 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 $U_o$                                                                    | 9.56 V                                                                             |
| Max. output current $I_o$                                                                    | 10.3 mA                                                                            |
| Max. output power $P_o$                                                                      | 25 mW                                                                              |
| Safety-related maximum voltage $U_m$                                                         | 253 V AC/DC (Supply terminals)                                                     |
|                                                                                              | 250 V AC (Output terminals)                                                        |
|                                                                                              | 120 V DC (Output terminals)                                                        |
| 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/I (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 |

## Signaling

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

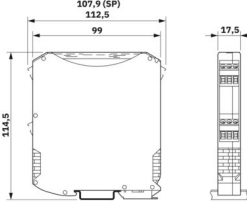
## Dimensions

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|                     |  |                                                                                    |
|---------------------|--|------------------------------------------------------------------------------------|
| Dimensional drawing |  |  |
| Width               |  | 17.5 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       |

## Environmental and real-life conditions

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| Ambient conditions                      |                                          |
| 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        | 253 V AC (Power supply, input / output)                                                                                                              |
|                                 | 125 V DC (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) |

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|                                 |                                           |
|---------------------------------|-------------------------------------------|
| Rated insulation voltage        | 60 V AC/DC (Power supply, input / output) |
| Altitude range ( $\leq 5000$ 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 | ⊕ II (1) G [Ex ia Ga] IIC               |
|                | ⊕ II (1) D [Ex ia Da] IIIC              |
|                | ⊕ II 3 (1) G Ex ec [ia Ga] nC IIC T4 Gc |
|                | ⊕ I (M1) [Ex ia Ma] I                   |
| Certificate    | IBExU 10 ATEX 1005                      |

### 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] nC IIC T4 Gc |
| Certificate    | CML 22UKEX3528X                         |

### IECEX

|                |                            |
|----------------|----------------------------|
| Identification | [Ex ia Ga] IIC             |
|                | [Ex ia Da] IIIC            |
|                | Ex ec [ia Ga] nC IIC T4 Gc |
|                | [Ex ia Ma] I               |
| Certificate    | IECEX IBE 10.0002X         |

### CCC / China-Ex

|                |                            |
|----------------|----------------------------|
| Identification | [Ex ia Ga] IIC             |
|                | [Ex ia Da] IIIC            |
|                | Ex ec nC [ia Ga] IIC T4 Gc |
| Certificate    | 2022122316115976           |

### UL, USA/Canada

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

### Shipbuilding approval

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

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## Safety Integrity Level (SIL, IEC 61508)

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

## INMETRO

|                |                            |
|----------------|----------------------------|
| Identification | [Ex ia Ga] IIC             |
|                | [Ex ia Da] IIIC            |
|                | Ex ec nC [ia Ga] IIC T4 Gc |
|                | [Ex ia Ma] I               |
| Certificate    | DNV 18.0116 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                   |
| Electromagnetic compatibility | Conformance with EMC directive |
| Noise emission                | EN 61000-6-4                   |

## Electromagnetic HF field

|                       |                          |
|-----------------------|--------------------------|
| Designation           | Electromagnetic RF field |
| Standards/regulations | EN 61000-4-3             |
| Evaluation criterion  | A                        |

## Fast transients (burst)

|                       |                         |
|-----------------------|-------------------------|
| Designation           | Fast transients (burst) |
| Standards/regulations | EN 61000-4-4            |
| Evaluation criterion  | A                       |

## Conducted interference

|                       |                         |
|-----------------------|-------------------------|
| Designation           | Conducted interferences |
| Standards/regulations | EN 61000-4-6            |
| Evaluation criterion  | A                       |

## Standards and regulations

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

## GB Standard

|                       |             |
|-----------------------|-------------|
| Standards/regulations | GB/T 3836.1 |
|                       | GB/T 3836.3 |
|                       | GB/T 3836.4 |
|                       | GB/T 3836.8 |

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## Mounting

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

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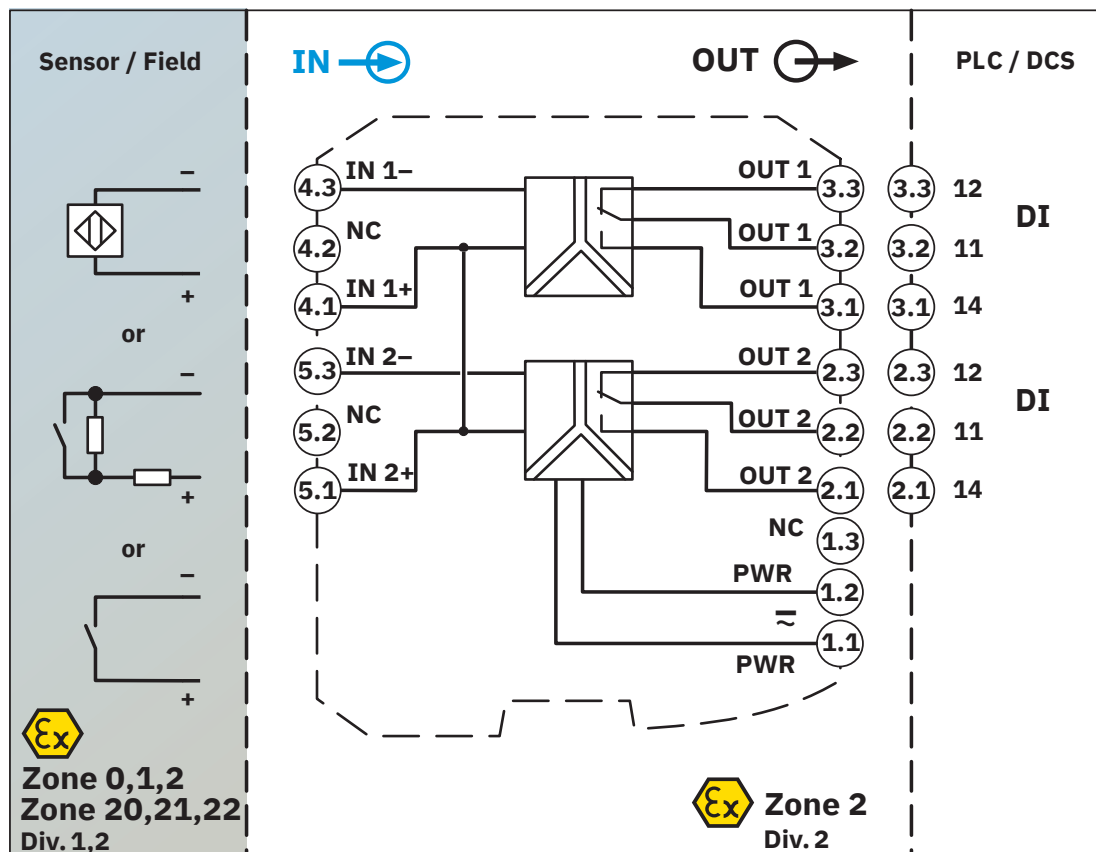


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<https://www.phoenixcontact.com/us/products/2865984>

## Drawings

Block diagram



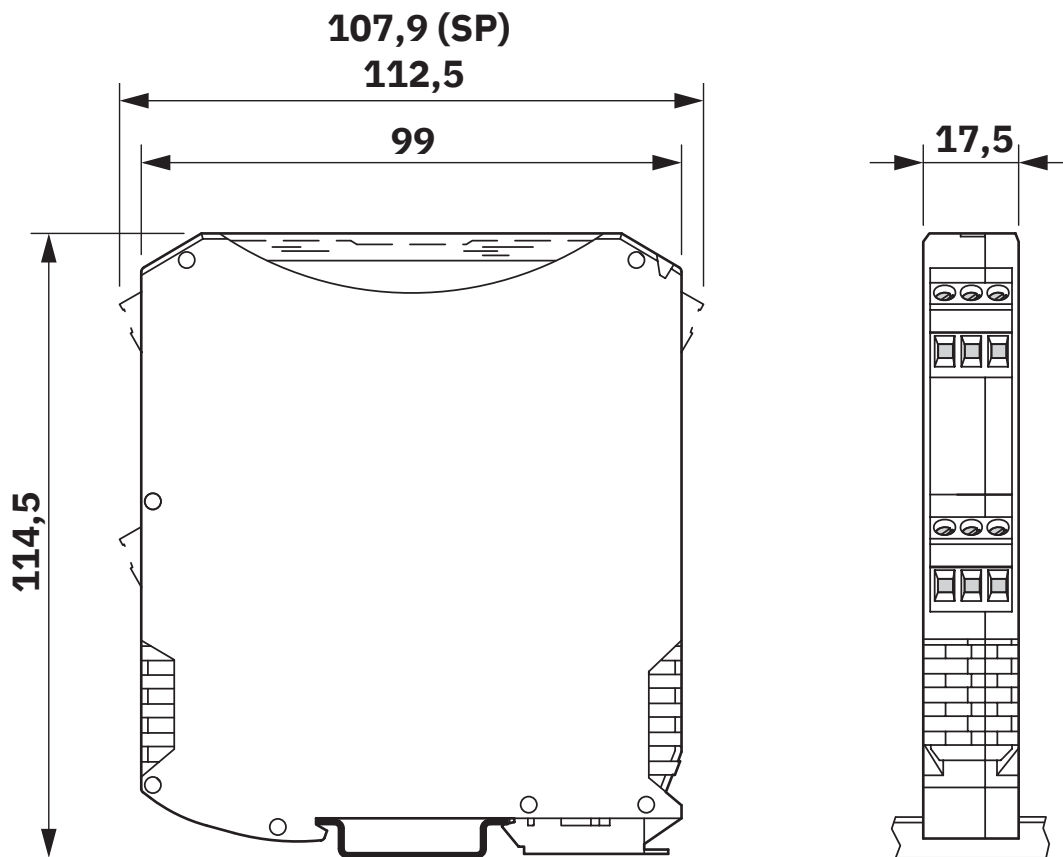
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Dimensional drawing



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<https://www.phoenixcontact.com/us/products/2865984>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2865984>



**DNV GL**

Approval ID: TAA000020C



**UL Listed**

Approval ID: FILE E 330267



**cUL Listed**

Approval ID: FILE E 330267

**Functional Safety**

Approval ID: 09/12-02 R010 V1R0



**EAC Ex**

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



**IECEx**

Approval ID: IECEx IBE 10.0002X



**cUL Listed**

Approval ID: FILE E 199827



**UL Listed**

Approval ID: FILE E 199827

**INMETRO**

Approval ID: DNV 18.0116 X



**ATEX**

Approval ID: IBExU 10 ATEX 1005



**IECEx**

Approval ID: IECEx IBE 10.0002X

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**ATEX**  
Approval ID: IBExU 10 ATEX 1005



**CCC**  
Approval ID: 2022122316115976

**cULus Listed**

**cULus Listed**

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## 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                                    | a99d15aa-3d82-4d77-82d7-20a7a471b1d4                                                                                                                                                                                              |

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## Accessories

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

1136500

<https://www.phoenixcontact.com/us/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/us/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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## 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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## MPS-IH RD - Insulating sleeve

0201676

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

Insulating sleeve, color: red



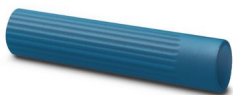
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## MPS-IH BU - Insulating sleeve

0201689

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

Insulating sleeve, color: blue



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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



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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-2NAM-R-UP - Isolation amplifier



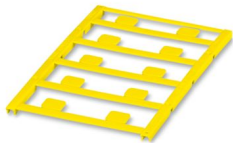
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## UC-EMLP (11X9) YE - Plastic label

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

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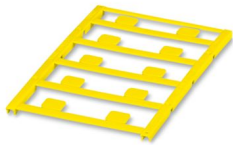
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## UC-EMLP (11X9) YE CUS - Plastic label

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-2NAM-R-UP - Isolation amplifier



2865984

<https://www.phoenixcontact.com/us/products/2865984>

## 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-2NAM-R-UP - Isolation amplifier



2865984

<https://www.phoenixcontact.com/us/products/2865984>

## 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-2NAM-R-UP - Isolation amplifier



2865984

<https://www.phoenixcontact.com/us/products/2865984>

## 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



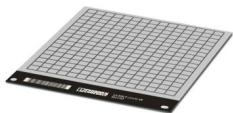
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## LS-EMLP (11X9) SR - Device marker

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-2NAM-R-UP - Isolation amplifier



2865984

<https://www.phoenixcontact.com/us/products/2865984>

## 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-2NAM-R-UP - Isolation amplifier



2865984

<https://www.phoenixcontact.com/us/products/2865984>

## 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-2NAM-R-UP - Isolation amplifier



2865984

<https://www.phoenixcontact.com/us/products/2865984>

## 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-2NAM-R-UP - Isolation amplifier

2865984

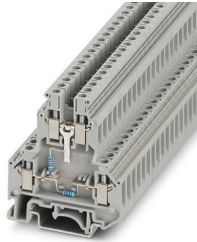
<https://www.phoenixcontact.com/us/products/2865984>



## 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

# MACX MCR-EX-SL-2NAM-R-UP - Isolation amplifier

2865984

<https://www.phoenixcontact.com/us/products/2865984>

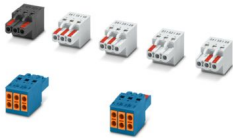


## MACX EX-SET-TVFKC 3-POLE - Connector set

1584393

<https://www.phoenixcontact.com/us/products/1584393>

TVFKC plug set for MACX Ex i devices with 3-pos. plugs



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