

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



2907404

<https://www.phoenixcontact.com/us/products/2907404>

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Ex i NAMUR signal conditioners. For operating Ex i proximity sensors and switches in hazardous areas. Passive transistor output (resistive, Honeywell-compatible), line fault transparency, up to SIL 2 according to 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), compatible with FC-RUSIO-3224 and FC-RUSLS-3224 universal safety IO modules from Honeywell
- Signal output with line fault transparency, line fault indication directly via the signal output
- 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                          | 2907404                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C430                           |
| Product key                          | CK3141                         |
| Catalog page                         | Page 160 (C-5-2019)            |
| GTIN                                 | 4055626200309                  |
| Weight per piece (including packing) | 169.1 g                        |
| Weight per piece (excluding packing) | 169.1 g                        |
| Customs tariff number                | 85365019                       |
| Country of origin                    | DE                             |

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



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## Technical data

### 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                                        |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 07 |
|------------------|----|

### 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             |
| Maximum power dissipation for nominal condition | 1 W             |

### 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) |
|----------------------|-------------------------------------------------------|

### Supported controller HONEYWELL RUSIO

|                   |               |
|-------------------|---------------|
| Suitable I/O card | FC-RUSIO-3224 |
|-------------------|---------------|

### 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

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Signal: NAMUR

|                                         |                                                 |
|-----------------------------------------|-------------------------------------------------|
| 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                                          |

## Output data

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

Safety data

|                                                                                              |                       |
|----------------------------------------------------------------------------------------------|-----------------------|
| Max. internal inductance $L_i$                                                               | negligible            |
| Max. internal capacitance $C_i$                                                              | negligible            |
| Max. output voltage $U_o$                                                                    | 9.6 V                 |
| Max. output current $I_o$                                                                    | 10 mA                 |
| Max. output power $P_o$                                                                      | 25 mW                 |
| Safety-related maximum voltage $U_m$                                                         | 253 V AC/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  |

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|                                                                                                 |                                                                                    |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 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

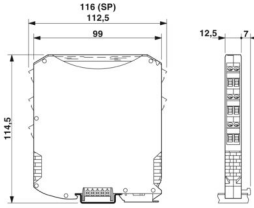
### Data

|                 |   |
|-----------------|---|
| 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 |
|------------------------------|---|

### 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)         | -20 °C ... 60 °C (Any mounting position) |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C                         |

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|                                  |                                |
|----------------------------------|--------------------------------|
| Altitude                         | ≤ 2000 m                       |
| Permissible humidity (operation) | 10 % ... 95 % (non-condensing) |

## 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 3G Ex nA IIC T4 Gc X  |
| Certificate    | IBExU 12 ATEX 1169         |

### IECEx

|                |                    |
|----------------|--------------------|
| Identification | [Ex ia Ga] IIC     |
|                | [Ex ia Da] IIIC    |
|                | Ex nA IIC T4 Gc    |
| Certificate    | IECEx IBE 12.0018X |

### 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 |

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

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

### EAC Ex

|                |                         |
|----------------|-------------------------|
| Identification | ERC [Ex ia Ga] IIC      |
|                | ERC [Ex ia Da] IIIC     |
| Certificate    | RU C-DE.AB72.B.00093/19 |

### INMETRO

|                |                 |
|----------------|-----------------|
| Identification | [Ex ia Ga] IIC  |
|                | [Ex ia Da] IIIC |
|                | Ex nA IIC T4 Gc |
| Certificate    | DNV 18.0144 X   |

## EMC data

|                               |                                |
|-------------------------------|--------------------------------|
| Noise immunity                | EN 61000-6-2                   |
| Electromagnetic compatibility | Conformance with EMC directive |

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|                |              |
|----------------|--------------|
| 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 |
|---------------|-------------------|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27210121 |
|-------------|----------|

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | 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)                                                                                                                                                                                                              |

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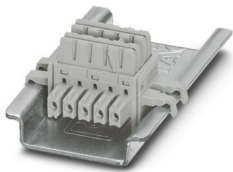
## Accessories

### 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



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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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## 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

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## 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

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## TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

<https://www.phoenixcontact.com/us/products/2902932>



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), with HART multiplexer connection

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



2907404

<https://www.phoenixcontact.com/us/products/2907404>

## 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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## 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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<https://www.phoenixcontact.com/us/products/2907404>

## 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



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

2941662

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



Component terminal block, connection method: Screw connection, 1st and 2nd level, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, NS 32, color: gray

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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



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



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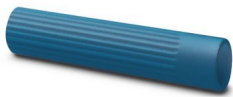
<https://www.phoenixcontact.com/us/products/2907404>

## 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



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



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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



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



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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>



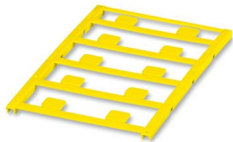
Plastic label, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 10

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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



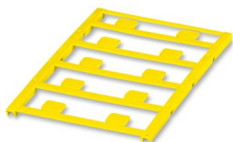
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## UC-EMLP (11X9) YE CUS - Plastic label

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

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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

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## 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>



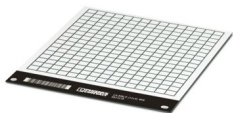
Plastic label, Card, silver, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 11 x 9 mm, Number of individual labels: 135

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## 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



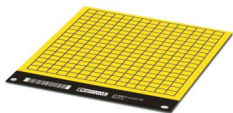
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## LS-EMLP (11X9) YE - Device marker

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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## 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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