

# MACX MCR-EX-SL-SD-21-40-LP - Solenoid driver



2865764

<https://www.phoenixcontact.com/pc/products/2865764>

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Ex i solenoid driver. For the intrinsically safe control of Ex i solenoid valves, alarm modules or LEDs installed in the Ex area. Current limitation at 40 mA. For gases up to Group IIC, loop-powered, electrical isolation, SIL 3. Screw connection.

## Your advantages

- Mechanically compatible with the DIN rail connector
- Various output characteristic curves compatible with standard solenoid valves
- Loop-powered: the required power is supplied via the control signal on the input side.
- Up to SIL 3 in accordance with IEC 61508
- Installation in zone 2, protection type "n" (EN 60079-15) permitted
- Output: [Ex ia] IIC/[Ex ia] IIB
- 2-way electrical isolation
- Input: 19.2 V DC ... 30 V DC

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2865764       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | DK1214        |
| GTIN                                 | 4046356325233 |
| Weight per piece (including packing) | 171.3 g       |
| Weight per piece (excluding packing) | 119 g         |
| Customs tariff number                | 85437090      |
| Country of origin                    | DE            |

# MACX MCR-EX-SL-SD-21-40-LP - Solenoid driver



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## Technical data

### Product properties

|                  |                                                       |
|------------------|-------------------------------------------------------|
| Product type     | Solenoid driver                                       |
| Product family   | MACX Analog                                           |
| No. of channels  | 1                                                     |
| Compatible valve | ASCO Coil 195                                         |
|                  | Bürkert Coil AC 10 standard                           |
|                  | Bürkert Coil AC 10 high resistance                    |
|                  | Bürkert Coil AC 21 standard 700 mW / 65°C             |
|                  | Bürkert Coil AC 21 high resistance 700 mW / 65°C      |
|                  | Bürkert Coil AC 21 standard 900 mW / 45°C             |
|                  | Bürkert Coil AC 21 high resistance 900 mW / 45°C      |
|                  | Bürkert Coil AC 21 standard 900 mW / 60°C             |
|                  | Bürkert Coil AC 21 high resistance 900 mW / 60°C      |
|                  | Bürkert Coil G1 642735 standard 600 mW / 50°C         |
|                  | Bürkert Coil G1 642735 high resistance 600 mW / 50°C  |
|                  | Bürkert Coil G1 642735 standard 800 mW / 40°C         |
|                  | Bürkert Coil G1 642735 high resistance 800 mW / 40°C  |
|                  | Bürkert Coil G1 642735 standard 1000 mW / 40°C        |
|                  | Bürkert Coil G1 642735 high resistance 1000 mW / 40°C |
|                  | Norgren Herion Coil 2050                              |
|                  | Norgren Herion Coil 2051                              |
|                  | Norgren Herion Coil 2052                              |
|                  | Norgren Herion Coil 2080 / 2082                       |
|                  | Norgren Herion Coil 2081 / 2083                       |
|                  | Norgren Herion Coil 2084                              |
|                  | Hörbiger Piezo P8 38x RF-Nx-SPN65 30 V type           |
|                  | Hörbiger Piezo P20 381RF-NG-CPN61 30 V type           |
|                  | Parker Coil VZ07 488650.01                            |
|                  | Parker Coil VZ33 494035.10                            |
|                  | Parker Coil VZ08 488660.01                            |
|                  | Parker Coil VZ09 488670.01                            |
|                  | Parker Coil VZ95 482160.01 EEx ia IIB T6              |
|                  | Parker Coil VZ23 482870.01                            |
|                  | Samson Coil 3701-12 (12 V)                            |
|                  | Samson Coil 3701-13 (24 V)                            |
|                  | Samson Coil 3963-12 (12 V)                            |
|                  | Samson Coil 3963-13 (24 V)                            |
|                  | Samson Coil 3964-12 (12 V)                            |
|                  | Samson Coil 3964-13 (24 V)                            |
|                  | Seitz Pilot valve PV 12F73 Ci oH                      |
|                  | Seitz Pilot valve PV 12F73 Xi oH                      |

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|      |                                                                             |
|------|-----------------------------------------------------------------------------|
|      | Seitz Pilot valve PV 12F73 Xi oH-2                                          |
| Note | This is an extract of possible combinations of valves and solenoid drivers. |

## Electrical properties

|                                               |                 |
|-----------------------------------------------|-----------------|
| Electrical isolation                          | 2-way isolation |
| Electrical isolation between input and output | yes             |
| Maximum temperature coefficient               | 0.01 %/K        |

### Electrical isolation

|                      |                         |
|----------------------|-------------------------|
| Test voltage         | 2.5 kV AC (50 Hz, 60 s) |
| Overvoltage category | II                      |
| Pollution degree     | 2                       |

### Electrical isolation Output/input IEC/EN 60079-11

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

### Electrical isolation Output/input IEC/EN 61010-1

|                          |                      |
|--------------------------|----------------------|
| Standards/regulations    | IEC/EN 61010-1       |
| Rated insulation voltage | 300 V <sub>rms</sub> |
| Insulation               | Safe isolation       |

### Supply

|                      |                                            |
|----------------------|--------------------------------------------|
| Supply voltage range | loop-powered, no external supply necessary |
| Power dissipation    | < 1.055 W                                  |

## Input data

### Signal: Voltage

|                           |                                                  |
|---------------------------|--------------------------------------------------|
| Number of inputs          | 1                                                |
| Voltage input signal      | 19.2 V DC ... 30 V DC (24 V DC, -20 % ... +25 %) |
| Max. current input signal | 65 mA (U <sub>e</sub> = 24 V DC)                 |

## Output data

### Signal: Voltage

|                      |                    |
|----------------------|--------------------|
| Output description   | intrinsically safe |
| Number of outputs    | 1                  |
| Output voltage       | ≥ 10 V DC (40 mA)  |
| Current limitation   | > 40 mA            |
| Response time        | < 20 ms            |
| Open-circuit voltage | > 21.9 V DC        |
| Short-circuit-proof  | yes                |

## Connection data

|                   |                  |
|-------------------|------------------|
| Connection method | Screw connection |
| Stripping length  | 7 mm             |

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|                                  |                     |
|----------------------------------|---------------------|
| Screw thread                     | M3                  |
| Conductor cross-section rigid    | 0.2 mm² ... 2.5 mm² |
| Conductor cross-section flexible | 0.2 mm² ... 2.5 mm² |
| 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

|                                                                                              |                                                                                                                                                                |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note                                                                                         | The following Ex i values apply to the ATEX and IECEx approval. For all other Ex approvals, you must refer to the respective certificates for the Ex i values. |
| Input power $P_i$                                                                            | negligible                                                                                                                                                     |
| Max. internal inductance $L_i$                                                               | negligible                                                                                                                                                     |
| Max. internal capacitance $C_i$                                                              | negligible                                                                                                                                                     |
| Max. output voltage $U_o$                                                                    | 25.1 V                                                                                                                                                         |
| Max. output current $I_o$                                                                    | 87 mA                                                                                                                                                          |
| Max. output power $P_o$                                                                      | 550 mW                                                                                                                                                         |
| Maximum internal resistance $R_i$                                                            | 287 $\Omega$                                                                                                                                                   |
| Safety-related maximum voltage $U_m$                                                         | 253 V AC                                                                                                                                                       |
|                                                                                              | 125 V DC                                                                                                                                                       |
| IIA/I (simple circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$    | 37.6 mH / 2.93 $\mu$ F                                                                                                                                         |
| IIB/IIIC (simple circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$ | 18.8 mH / 0.83 $\mu$ F                                                                                                                                         |
| IIC (simple circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$      | 4.7 mH / 0.108 $\mu$ F                                                                                                                                         |
| IIA/I (mixed circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$     | 20 mH / 600 nF, 5 mH / 610 nF, 1 mH / 640 nF, 0.1 mH / 1000 nF                                                                                                 |
| IIB/IIIC (mixed circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$  | 5 mH / 300 nF, 0.5 mH / 500 nF                                                                                                                                 |
| IIC (mixed circuit): Max. external inductivity $L_o$ / Max. external capacitance $C_o$       | 2 mH / 50 nF, 0.5 mH / 70 nF, 0.15 mH / 100 nF                                                                                                                 |

## Signaling

|                |                                                                                |
|----------------|--------------------------------------------------------------------------------|
| Status display | Yellow LED (switching state / status, lights up when output circuit is active) |
|----------------|--------------------------------------------------------------------------------|

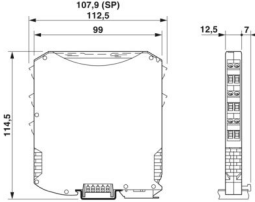
## Dimensions

# MACX MCR-EX-SL-SD-21-40-LP - Solenoid driver



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|                     |  |                                                                                    |
|---------------------|--|------------------------------------------------------------------------------------|
| 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 (Housing) | 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)<br>-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 ... 70 °C                                                                                                                                     |
| Safety-related maximum voltage $U_m$ | 253 V AC<br>125 V DC                                                                                                                                 |
| Rated insulation voltage             | 375 V <sub>PP</sub> (IEC/EN 60079-11)<br>265 V ( $U_{\text{Isolation rated "ec"}}$ )                                                                 |

### Altitude range (≤ 3000 m)

|                                      |                                                                        |
|--------------------------------------|------------------------------------------------------------------------|
| Height range                         | > 2000 m ... 3000 m                                                    |
| Ambient temperature (operation)      | -40 °C ... 63 °C                                                       |
| Safety-related maximum voltage $U_m$ | 190 V AC<br>110 V DC                                                   |
| Rated insulation voltage             | 190 V (IEC/EN 60079-11)<br>190 V ( $U_{\text{Isolation rated "ec"}}$ ) |

### Altitude range (≤ 4000 m)

|              |                     |
|--------------|---------------------|
| Height range | > 3000 m ... 4000 m |
|--------------|---------------------|

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<https://www.phoenixcontact.com/pc/products/2865764>

|                                      |                                            |
|--------------------------------------|--------------------------------------------|
| Ambient temperature (operation)      | -40 °C ... 56 °C                           |
| Safety-related maximum voltage $U_m$ | 60 V                                       |
| Rated insulation voltage             | 60 V (IEC/EN 60079-11)                     |
|                                      | 60 V ( $U_{\text{isolation rated "ec"}}$ ) |
| Altitude range ( $\leq 5000$ m)      |                                            |
| Height range                         | > 4000 m ... 5000 m                        |
| Ambient temperature (operation)      | -40 °C ... 49 °C                           |
| Safety-related maximum voltage $U_m$ | 60 V                                       |
| Rated insulation voltage             | 60 V (IEC/EN 60079-11)                     |
|                                      | 60 V ( $U_{\text{isolation rated "ec"}}$ ) |

## Approvals

### CE

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

### ATEX

|                |                                     |
|----------------|-------------------------------------|
| 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    | IBExU 07 ATEX 1133X                 |

### IECEx

|                |                         |
|----------------|-------------------------|
| Identification | [Ex ia Ma] I            |
|                | [Ex ia Ga] IIC          |
|                | [Ex ia Da] IIIC         |
|                | Ex ec [ia Ga] IIC T4 Gc |
| Certificate    | IECEx IBE 08.0002X      |

### CCC / China-Ex

|                |                         |
|----------------|-------------------------|
| Identification | [Ex ia Ga] IIC          |
|                | [Ex ia Da] IIIC         |
|                | Ex ec [ia Ga] IIC T4 Gc |
| Certificate    | 2022122316115980        |

### UL, USA/Canada

|                |                                                                     |
|----------------|---------------------------------------------------------------------|
| Identification | UL 61010 Listed                                                     |
|                | Class I, Div. 2, Groups A, B, C, D T4                               |
|                | Class I, Div. 2, Groups IIC, IIB, IIA T4                            |
|                | Associated apparatus for use in Class I, Division 1, Groups A,B,C,D |
|                | Associated apparatus for use in Class II, Div.1 Groups E,F,G        |
|                | Associated apparatus for use in Class III, Division 1               |
|                | Associated apparatus for use in Class I, Zone 0,1,2, Groups         |

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|             |                    |
|-------------|--------------------|
|             | IIC,IIB,IIA        |
| Certificate | ® C.D.-No 83104549 |

## Shipbuilding approval

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

## Safety Integrity Level (SIL, IEC 61508)

|                |   |
|----------------|---|
| Identification | 3 |
|----------------|---|

## INMETRO

|                |                         |
|----------------|-------------------------|
| Identification | [Ex ia Ma] I            |
|                | [Ex ia Ga] IIC          |
|                | [Ex ia Da] IIIC         |
|                | Ex ec [ia Ga] IIC T4 Gc |
| Certificate    | DNV 18.0115 X           |

## Shipbuilding 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

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

## Noise emission

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-6-4 |
|-----------------------|--------------|

## Standards and regulations

|                      |                 |
|----------------------|-----------------|
| Electrical isolation | 2-way isolation |
|----------------------|-----------------|

## GB Standard

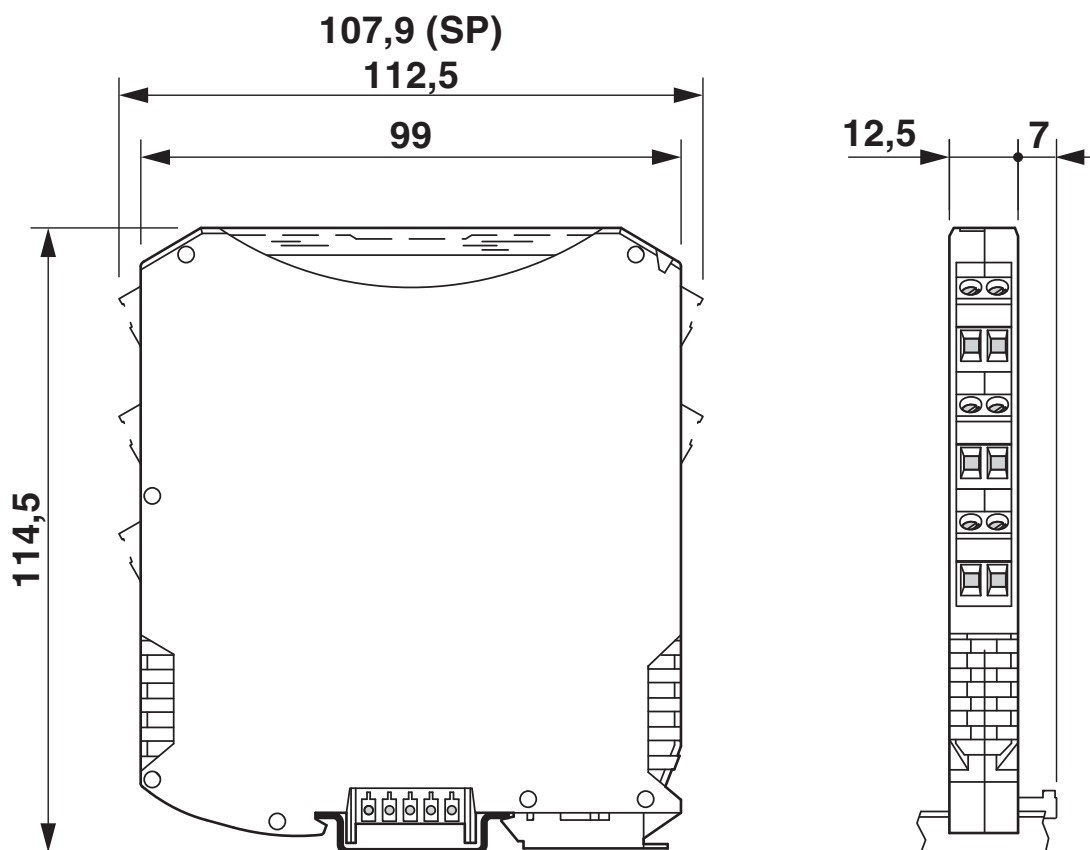
|                       |             |
|-----------------------|-------------|
| Standards/regulations | GB/T 3836.1 |
|                       | GB/T 3836.3 |
|                       | GB/T 3836.4 |

## Mounting

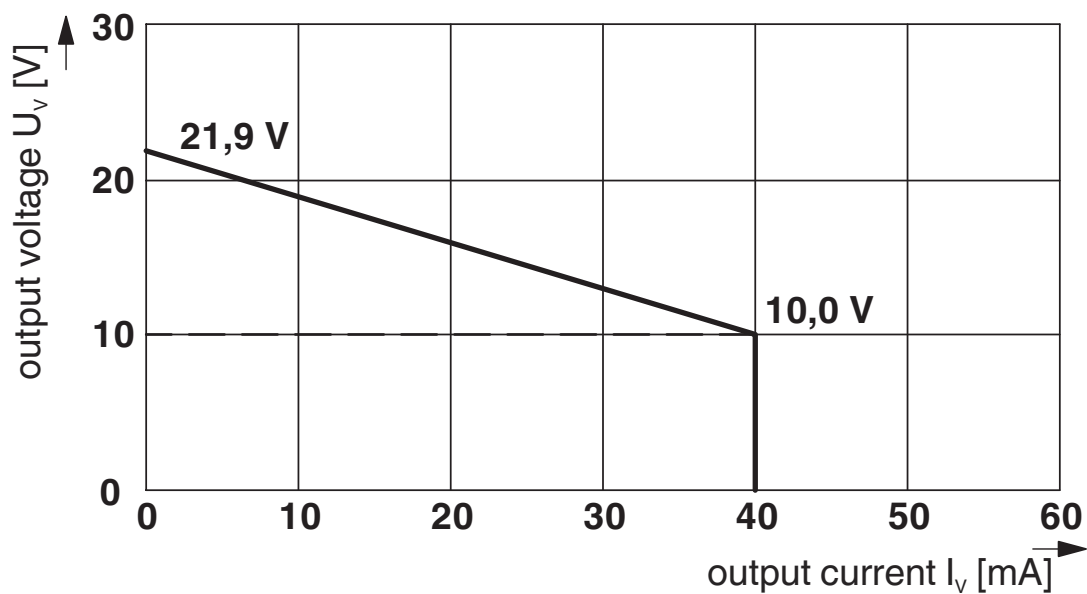
|               |                   |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

## Drawings

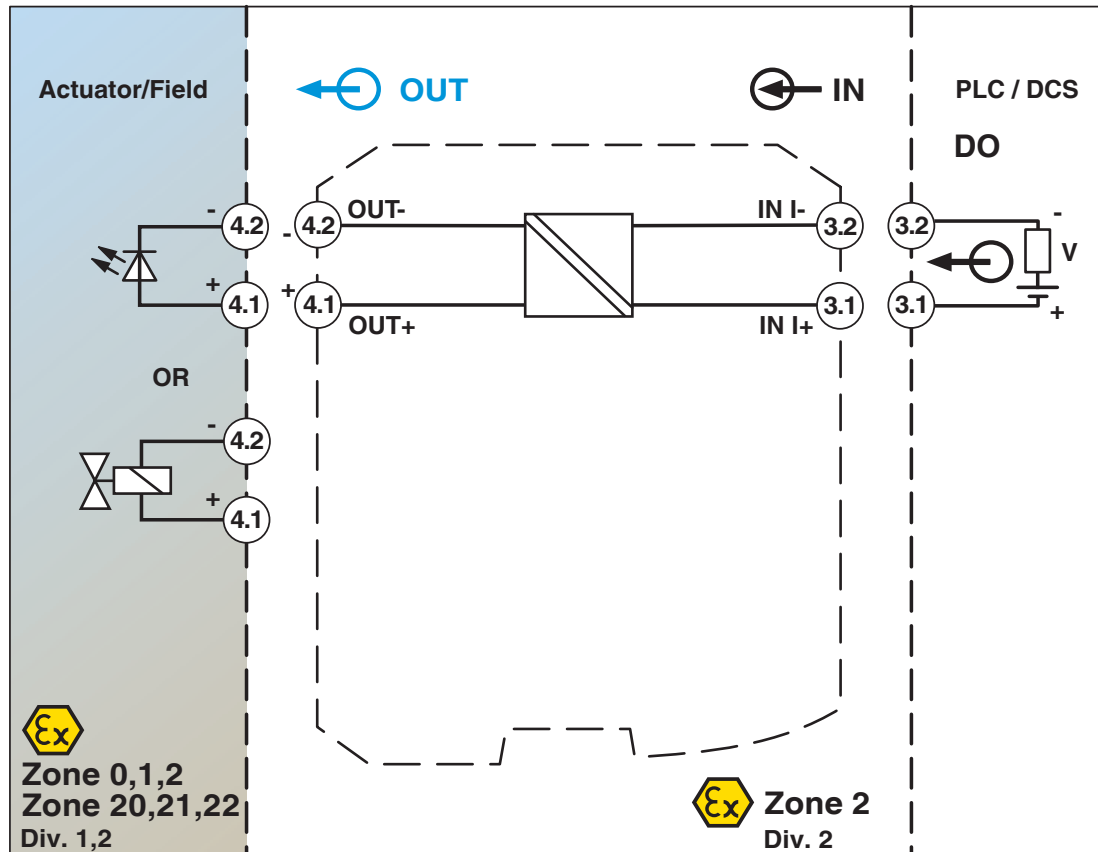
Dimensional drawing



Diagram



Block diagram



## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/2865764>

### DNV

Approval ID: TAA000020C



### UL Listed

Approval ID: E330267



### cUL Listed

Approval ID: E330267

### Functional Safety

Approval ID: 16/04-017 R025 V1R1



### IECEx

Approval ID: IECEx IBE 08.0002X



### CCC

Approval ID: 2022122316115980



### cUL Listed

Approval ID: E199827



### UL Listed

Approval ID: E199827



### ATEX

Approval ID: IBExU 07 ATEX 1133 X

### INMETRO

Approval ID: DNV 18.0115 X

# MACX MCR-EX-SL-SD-21-40-LP - Solenoid driver



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<https://www.phoenixcontact.com/pc/products/2865764>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27210120 |
| ECLASS-15.0 | 27210120 |

### ETIM

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

### 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                                | e2ad2e0c-4f1a-4eb0-915c-9cd1054fdbf0 |

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## Accessories

### MCR-DP - Separating plate

1430594

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



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

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

2924854

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

Insulating sleeve, color: white



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## MPS-IH RD - Insulating sleeve

0201676

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

Insulating sleeve, color: red



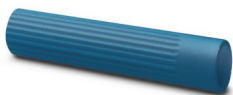
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## MPS-IH BU - Insulating sleeve

0201689

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

Insulating sleeve, color: blue



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## MPS-IH YE - Insulating sleeve

0201692

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

Insulating sleeve, color: yellow



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## MPS-IH GN - Insulating sleeve

0201702

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

Insulating sleeve, color: green



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## MPS-IH GY - Insulating sleeve

0201728

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

Insulating sleeve, color: gray



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## MPS-IH BK - Insulating sleeve

0201731

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

Insulating sleeve, color: black



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<https://www.phoenixcontact.com/pc/products/2865764>

## MPS-MT - Test plug

0201744

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



Plastic label, Sheet, white, unmarked, can be labeled with: BLUEMARK E. CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: adhesive, Number of individual labels: 10, text field height: 9 mm, text field width: 11 mm

# MACX MCR-EX-SL-SD-21-40-LP - Solenoid driver



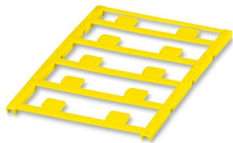
2865764

<https://www.phoenixcontact.com/pc/products/2865764>

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

0822602

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



Plastic label, Sheet, yellow, unmarked, can be labeled with: BLUEMARK E. CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: adhesive, Number of individual labels: 10, text field height: 9 mm, text field width: 11 mm

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

0824547

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



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

# MACX MCR-EX-SL-SD-21-40-LP - Solenoid driver



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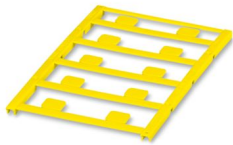
<https://www.phoenixcontact.com/pc/products/2865764>

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

0824548

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

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



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

0828094

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

Plastic label, Sheet, silver, unmarked, can be labeled with: BLUEMARK E. CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: adhesive, Number of individual labels: 10, text field height: 9 mm, text field width: 11 mm



# MACX MCR-EX-SL-SD-21-40-LP - Solenoid driver



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<https://www.phoenixcontact.com/pc/products/2865764>

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

0828098

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



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

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

0828789

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



Plastic label, Card, white, unmarked, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, THERMOMARK PRIME 2.0, mounting type: adhesive, Number of individual labels: 135, text field height: 9 mm, text field width: 11 mm

# MACX MCR-EX-SL-SD-21-40-LP - Solenoid driver



2865764

<https://www.phoenixcontact.com/pc/products/2865764>

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

0828871

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



Plastic label, Card, yellow, unmarked, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, THERMOMARK PRIME 2.0, mounting type: adhesive, Number of individual labels: 135, text field height: 9 mm, text field width: 11 mm

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

0828872

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



Plastic label, Card, silver, unmarked, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, THERMOMARK PRIME 2.0, mounting type: adhesive, Number of individual labels: 135, text field height: 9 mm, text field width: 11 mm

# MACX MCR-EX-SL-SD-21-40-LP - Solenoid driver



2865764

<https://www.phoenixcontact.com/pc/products/2865764>

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

0831678

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

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



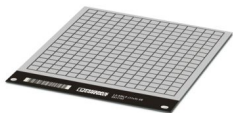
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## LS-EMLP (11X9) SR - Device marker

0831705

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

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



# MACX MCR-EX-SL-SD-21-40-LP - Solenoid driver



2865764

<https://www.phoenixcontact.com/pc/products/2865764>

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

0831732

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

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



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

2865625

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



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

# MACX MCR-EX-SL-SD-21-40-LP - Solenoid driver



2865764

<https://www.phoenixcontact.com/pc/products/2865764>

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

2924184

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



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

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

2904614

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



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

# MACX MCR-EX-SL-SD-21-40-LP - Solenoid driver



2865764

<https://www.phoenixcontact.com/pc/products/2865764>

## SZS 0,6X3,5 - Screwdriver

1205053

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



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

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