

## Digital display - MCR-SL-D-U-I - 2864011

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



MCR digital display, for measurement and display of standard signals, 5-fig. display

### Your advantages

- ✓ 48 x 24 mm display
- ✓ 8 mm LED, 7-segment
- ✓ Min./max. value saving
- ✓ 5-digit display
- ✓ For 0 ... 10 V and 0(4) ... 20 mA standard analog signals
- ✓ Electrical isolation
- ✓ Programmable
- ✓ Freely programmable decimal point display

RoHS

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 017918 820718 |
| GTIN         | 4017918820718                                                                                           |

### Technical data

#### Dimensions

|        |       |
|--------|-------|
| Width  | 48 mm |
| Height | 24 mm |
| Depth  | 68 mm |

#### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (operation)         | -20 °C ... 65 °C |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |
| Degree of protection                    | IP65 (Front)     |
| Noise immunity                          | EN 61000-6-2     |

# Digital display - MCR-SL-D-U-I - 2864011

## Technical data

### Input data

|                                   |                                                   |
|-----------------------------------|---------------------------------------------------|
| Voltage input signal              | 0 V ... 10 V                                      |
|                                   | 2 V ... 10 V                                      |
| Current input signal              | 4 mA ... 20 mA                                    |
|                                   | 0 mA ... 20 mA                                    |
| max. input voltage                | 30 V DC                                           |
| Max. input current                | 50 mA                                             |
| Input resistance of voltage input | > 1 MΩ                                            |
| Input resistance current input    | approx. 100 Ω with 5 mA / approx. 70 Ω with 20 mA |

### Output data

|                          |        |
|--------------------------|--------|
| D/A converter resolution | 14 bit |
|--------------------------|--------|

### Power supply

|                          |                     |
|--------------------------|---------------------|
| Supply voltage range     | 10 V DC ... 30 V DC |
| Max. current consumption | 50 mA               |
| Power consumption        | ≤ 1.5 W             |

### Connection data

|                                  |                      |
|----------------------------------|----------------------|
| Connection method                | Screw connection     |
| Stripping length                 | 8 mm                 |
| Screw thread                     | M3                   |
| Conductor cross section solid    | 0.14 mm² ... 1.5 mm² |
| Conductor cross section flexible | 0.14 mm² ... 1.5 mm² |
| Conductor cross section AWG      | 26 ... 16            |

### General

|                                 |                                         |
|---------------------------------|-----------------------------------------|
| Maximum transmission error      | ± 0.1 % (of final value)                |
| Maximum temperature coefficient | < 0.07 %/K                              |
| Test voltage input/power supply | 500 V <sub>rms</sub> (50/60 Hz, 1 min.) |
| Noise emission                  | EN 55011 / class B                      |
| Noise immunity                  | EN 61000-6-2                            |
| Color                           | gray                                    |
| Housing material                | Macrolon 2405                           |

### Standards and Regulations

|                                  |                    |
|----------------------------------|--------------------|
| Noise emission                   | EN 55011 / class B |
| Noise immunity                   | EN 61000-6-2       |
|                                  | EN 61000-4-2       |
| Connection in acc. with standard | CUL                |
| Conformance                      | CE-compliant       |
| UL, USA/Canada                   | UL 863             |

### Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|------------|---------------------------------------------------------|

## Digital display - MCR-SL-D-U-I - 2864011

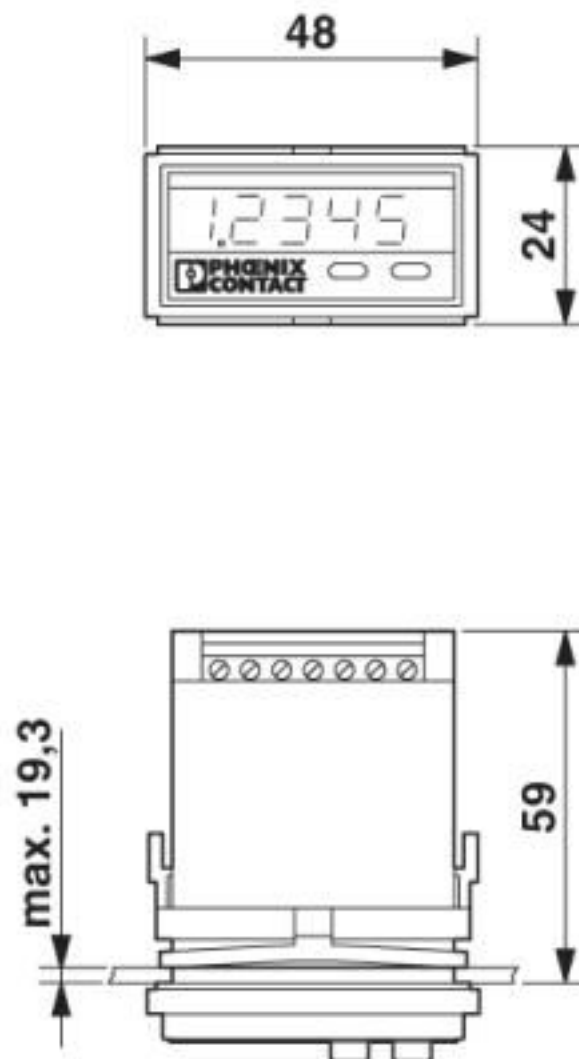
### Technical data

#### Environmental Product Compliance

|  |                                                |
|--|------------------------------------------------|
|  | No hazardous substances above threshold values |
|--|------------------------------------------------|

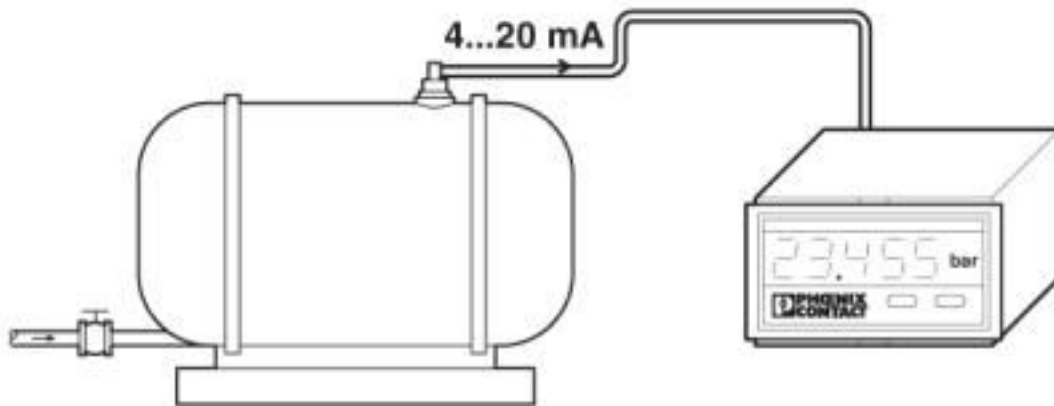
### Drawings

Dimensional drawing

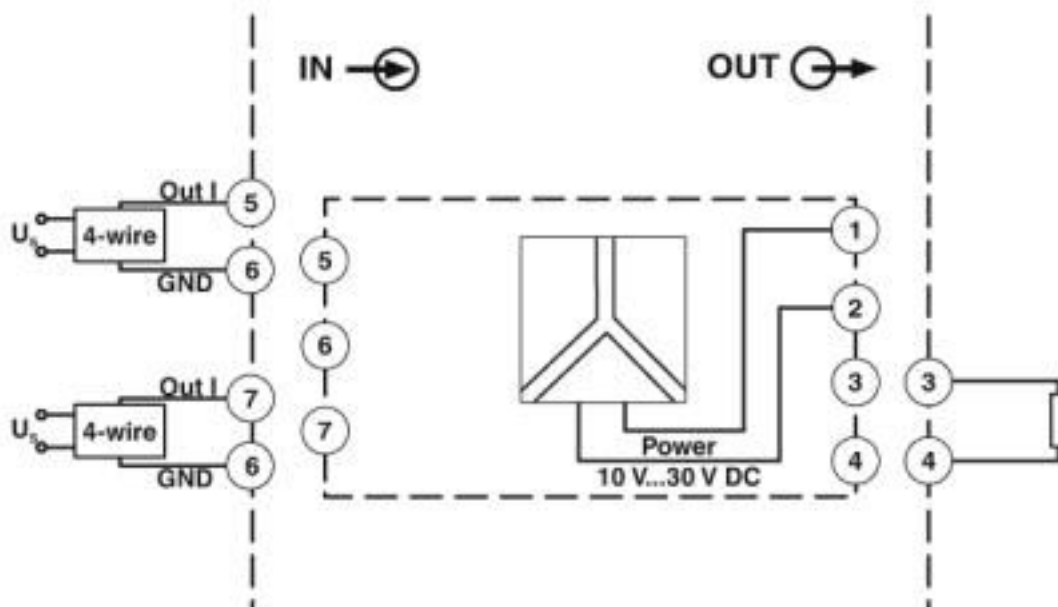


## Digital display - MCR-SL-D-U-I - 2864011

Application drawing



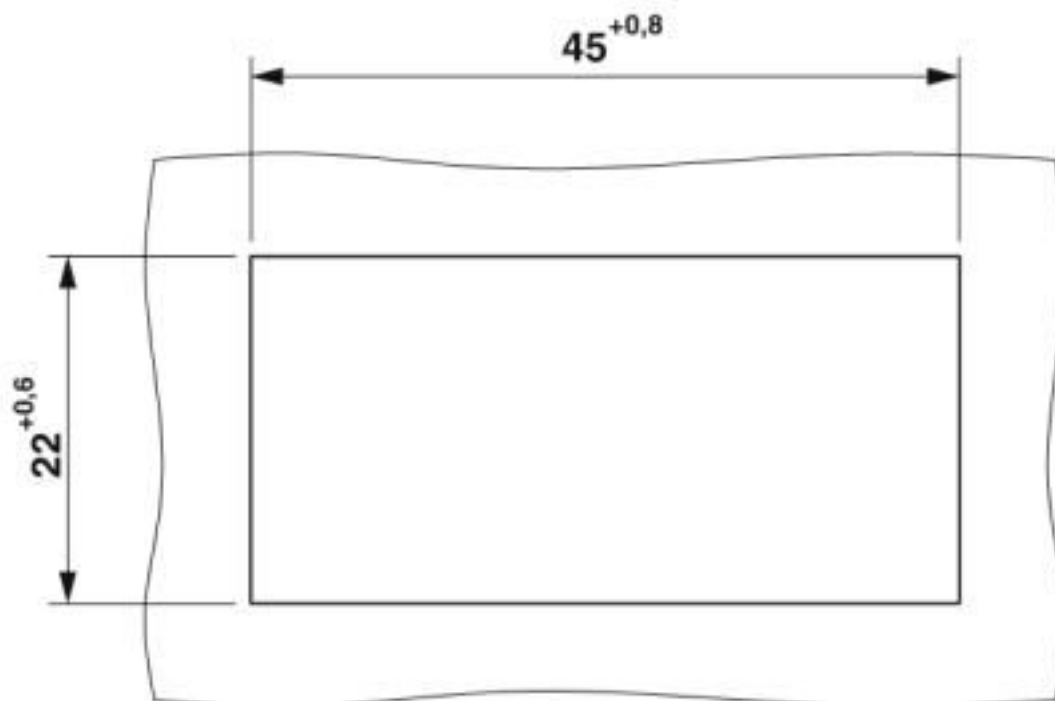
Block diagram



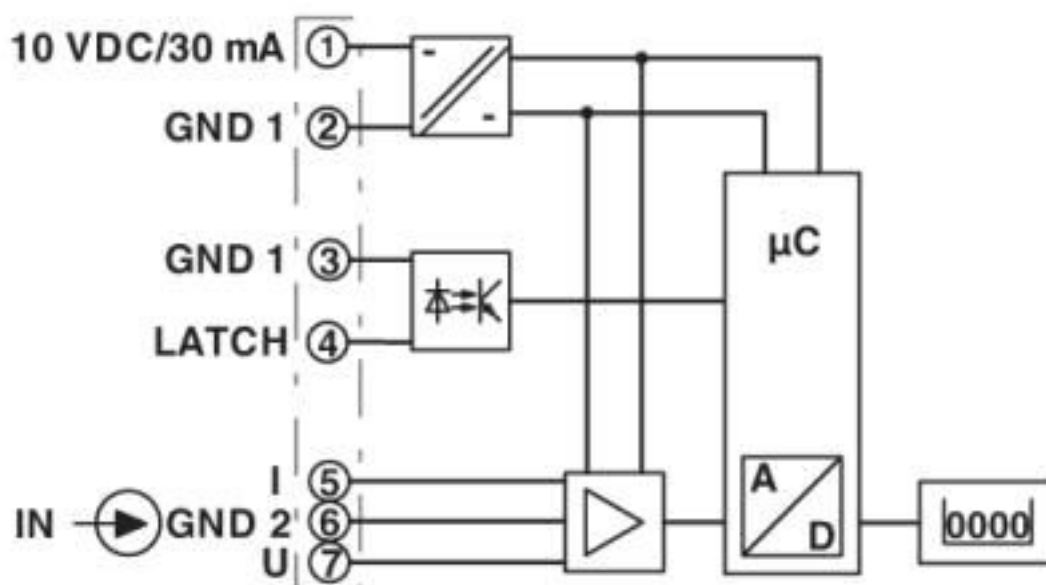
Block diagram MCR-SL-S-U-I

## Digital display - MCR-SL-D-U-I - 2864011

Dimensional drawing



Circuit diagram



### Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27210301 |
| eCl@ss 4.0    | 27210300 |

# Digital display - MCR-SL-D-U-I - 2864011

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.1 | 27210300 |
| eCl@ss 5.0 | 27210300 |
| eCl@ss 5.1 | 27210300 |
| eCl@ss 6.0 | 27210300 |
| eCl@ss 7.0 | 27210301 |
| eCl@ss 8.0 | 27210301 |
| eCl@ss 9.0 | 27210301 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001426 |
| ETIM 3.0 | EC001426 |
| ETIM 4.0 | EC001426 |
| ETIM 5.0 | EC001426 |
| ETIM 6.0 | EC001426 |
| ETIM 7.0 | EC001426 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211506 |
| UNSPSC 7.0901 | 39121008 |
| UNSPSC 11     | 39121008 |
| UNSPSC 12.01  | 39121008 |
| UNSPSC 13.2   | 39121008 |
| UNSPSC 18.0   | 39121008 |
| UNSPSC 19.0   | 39121008 |
| UNSPSC 20.0   | 39121008 |
| UNSPSC 21.0   | 39121008 |

## Approvals

### Approvals

#### Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

#### Ex Approvals

### Approval details

## Digital display - MCR-SL-D-U-I - 2864011

### Approvals

UL Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 197577

cUL Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 197577

EAC



RU\*DE.\*08.B.01522/19

cULus Recognized



### Accessories

#### Accessories

#### Mounting rail adapter

DIN rail adapter - MCR-SL-D-RA - 2810081



DIN rail adapter for digital displays in a 24x48 mm housing. Suitable for 35 mm DIN rails in acc. with EN 60715.

---

Phoenix Contact 2020 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Phoenix Contact:

2864011