

# MCR-SL-D-SPA-UI - Setpoint adjuster



2710314

<https://www.phoenixcontact.com/us/products/2710314>

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Digital setpoint encoders with manual and automatic ramp for defining current and voltage signals, 4-pos. display

## Your advantages

- Automatic setpoint definition with hold function and 20 interpolation points
- Manual setpoint definition via direct input
- Flexible, adjustable signal ranges of 0 ... 12 V or 0 ... 24 mA
- Data backup in the event of power failure
- Manual setpoint definition with incremental setting
- Display value parameterization
- Electrical isolation between output and supply

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2710314       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C401          |
| Product key                          | DK1141        |
| GTIN                                 | 4046356091190 |
| Weight per piece (including packing) | 87.6 g        |
| Weight per piece (excluding packing) | 100 g         |
| Customs tariff number                | 90328900      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|               |                  |
|---------------|------------------|
| Product type  | Digital displays |
| Configuration | Keyboard         |

### System properties

#### Functionality

|               |          |
|---------------|----------|
| Configuration | Keyboard |
|---------------|----------|

### Electrical properties

|                                                 |                                         |
|-------------------------------------------------|-----------------------------------------|
| Maximum power dissipation for nominal condition | 0.8 W (20 mA, 500 $\Omega$ )            |
| Test voltage output/power supply                | 500 V AC (50 Hz, 60 s)                  |
| Maximum temperature coefficient                 | 0.02 %/K                                |
| Maximum transmission error                      | < 0.2 % ((full-scale) at rated voltage) |

#### Supply

|                      |                       |
|----------------------|-----------------------|
| Supply voltage range | 10 V DC ... 30 V DC   |
| Power consumption    | 1 W (With 24 mA/12 V) |

### Input data

#### Signal

|                               |                                         |
|-------------------------------|-----------------------------------------|
| Display                       | 7-segment, 8 mm, red                    |
| Number of positions displayed | 4.00                                    |
| Switching level "1" signal    | 4 V DC ... 30 V DC                      |
| Switching level "0" signal    | 0 V DC ... 2 V DC                       |
| Measuring rate                | 0.1s <sup>-1</sup> / 0.5s <sup>-1</sup> |

### Output data

#### Signal

|                                 |                                                                    |
|---------------------------------|--------------------------------------------------------------------|
| Voltage output signal           | 0 V ... 12 V                                                       |
| Current output signal           | 0 mA ... 24 mA                                                     |
| Load/output load voltage output | $\geq 2$ k $\Omega$                                                |
| Load/output load current output | $\leq 500$ $\Omega$ (up to 20 mA)<br>$\leq 400$ $\Omega$ (> 20 mA) |
| Ripple                          | $\leq 10$ mV <sub>PP</sub>                                         |
| Number of positions displayed   | 4                                                                  |
| Display                         | 7-segment LED; 8 mm; red                                           |

### Connection data

|                   |                  |
|-------------------|------------------|
| Connection method | Screw connection |
| Stripping length  | 8 mm             |
| Screw thread      | M3               |

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|                                  |                      |
|----------------------------------|----------------------|
| Conductor cross-section rigid    | 0.14 mm² ... 1.5 mm² |
| Conductor cross-section flexible | 0.14 mm² ... 1.5 mm² |
| Conductor cross-section AWG      | 26 ... 16            |

## Dimensions

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

## Material specifications

|                  |               |
|------------------|---------------|
| Housing material | Macrolon 2405 |
|------------------|---------------|

## Environmental and real-life conditions

### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Degree of protection                    | IP65 (Front)     |
| Ambient temperature (operation)         | -20 °C ... 65 °C |
| Ambient temperature (storage/transport) | -25 °C ... 85 °C |

## Approvals

### CE

|             |              |
|-------------|--------------|
| Certificate | CE-compliant |
|-------------|--------------|

### UL, USA/Canada

|                |        |
|----------------|--------|
| Identification | UL 863 |
|----------------|--------|

## EMC data

|                |              |
|----------------|--------------|
| Noise immunity | EN 61000-6-2 |
|                | EN 61000-4-2 |

### Noise emission

|                       |                    |
|-----------------------|--------------------|
| Standards/regulations | EN 55011 / class B |
|-----------------------|--------------------|

## Mounting

|               |             |
|---------------|-------------|
| Mounting type | Panel mount |
|---------------|-------------|

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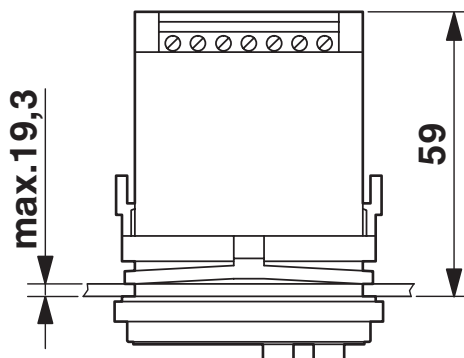
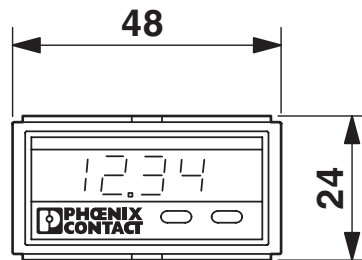
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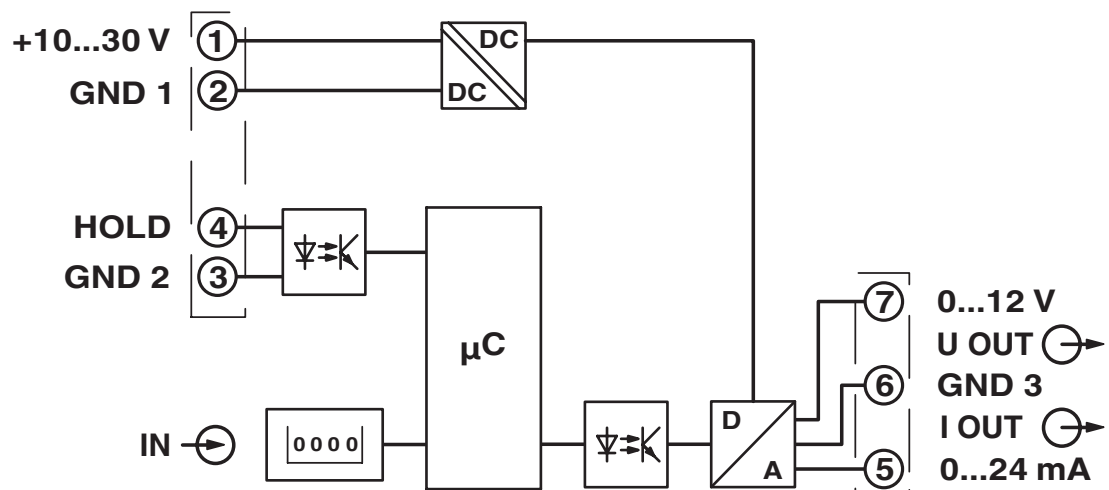


## Drawings

Dimensional drawing



Circuit diagram



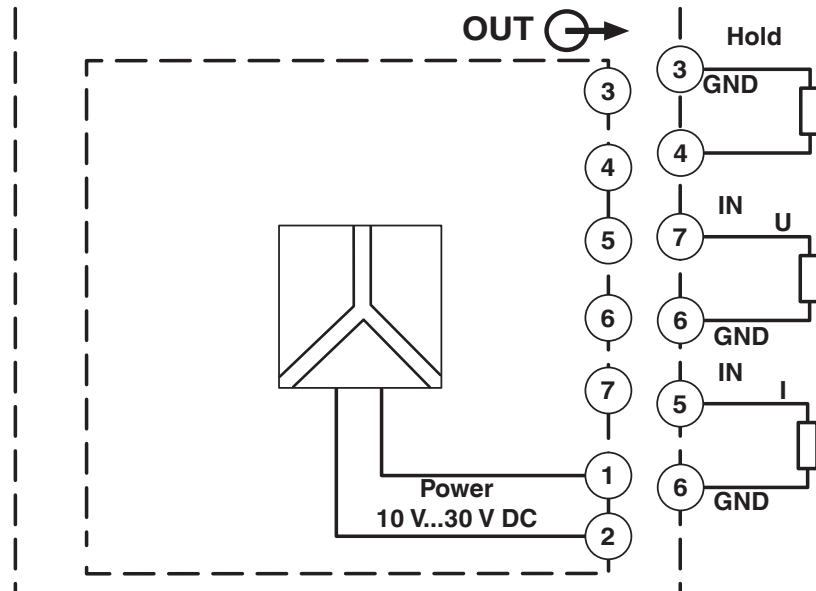
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Block diagram



Block diagram MCR-SL-D-SPA-UI

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## Approvals

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**cUL Recognized**

Approval ID: FILE E 197577



**UL Recognized**

Approval ID: FILE E 197577



**EAC**

Approval ID: RU\*DE.\*08.B.01522/19

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27210301 |
| ECLASS-15.0 | 27210301 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC011349 |
|----------|----------|

### UNSPSC

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

Environmental product compliance

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| EU RoHS                                 |                                          |
| Fulfills EU RoHS substance requirements | Yes, No exemptions                       |
| China RoHS                              |                                          |
| Environment friendly use period (EFUP)  | EFUP-E                                   |
|                                         | No hazardous substances above the limits |
| EU REACH SVHC                           |                                          |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt%               |

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## Accessories

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

2810081

<https://www.phoenixcontact.com/us/products/2810081>



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

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