# Current monitoring - MCR-SL-S- 16-SP- 24 - 2864464

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MCR contactor, for sinusoidal alternating currents 0 ... 16 A AC/ 1 PDT

## Your advantages

- Adjustable switching hysteresis
- Relay PDT output
- 3-way isolation
- Adjustable operating/closed circuit current behavior
- Switching point can be freely selected in the measuring range of 0 16 A AC

## Key Commercial Data

| | |
|---|---|
| Packing unit | 1 pc |
| GTIN | 4 017918 904456 |
| GTIN | 4017918904456 |

## Technical data

### Note

| | |
|---|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |

### Dimensions

| | |
|---|---|
| Width | 22.5 mm |
| Height | 99 mm |
| Depth | 114.5 mm |

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -20 °C ... 65 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C (non-condensing) |
| Maximum altitude | ≤ 2000 m |

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## Technical data

### Ambient conditions

| | |
|---|---|
| Degree of protection | IP20 |
| Noise immunity | EN 61000-6-2 When being exposed to interference, there may be minimal deviations. |

### Input data

| | |
|---|---|
| Input | Current measuring input |
| Input current range | 0 A AC ... 16 A |
| Impulse form | Sine |
| Overload capacity | 2 x $I_{N\,(}$continuous) |
| Nominal frequency $f_N$ | 50 Hz |
| | 60 Hz |
| Frequency measuring range | 45 Hz ... 65 Hz |

### Switching output

| | |
|---|---|
| Output name | Relay output |
| Contact type | 1 PDT |
| Contact material | AgSnO, hard gold-plated |
| Maximum switching voltage | 30 V AC |
| | 36 V DC |
| | 250 V AC (when the gold layer is destroyed) |
| Limiting continuous current | 50 mA (for gold layer, 30 V AC/ 36 V DC) |
| | 2 A (in case of a destroyed gold layer, 250 V AC) |
| Setting range of the response delay | typ. 0.1 s ... 10 s (Adjustable using a potentiometer) |

### Power supply

| | |
|---|---|
| Supply voltage range | 20 V DC ... 30 V DC |
| Max. current consumption | < 30 mA |

### Connection data

| | |
|---|---|
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Conductor cross section solid | 0.2 mm² ... 2.5 mm² |
| Conductor cross section flexible | 0.2 mm² ... 2.5 mm² |
| Conductor cross section AWG | 24 ... 14 |

### General

| | |
|---|---|
| Maximum temperature coefficient | < 0.02 %/K |
| Step response (10-90%) | 40 ms |
| Overvoltage category | III |
| Degree of pollution | 2 |
| Rated insulation voltage | 300 V AC (to earth) |
| Test voltage input/output | 3.5 kV (50 Hz, 1 min.) |
| Test voltage input/power supply | 3.5 kV (50 Hz, 1 min.) |

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## Technical data

### General

| | |
|---|---|
| Electromagnetic compatibility | Conformance with EMC directive |
| Noise emission | EN 61000-6-4 |
| Noise immunity | EN 61000-6-2 When being exposed to interference, there may be minimal deviations. |
| Color | green |
| Housing material | Polyamide PA non-reinforced |
| Mounting position | any |
| Conformance | CE-compliant |

### Standards and Regulations

| | |
|---|---|
| Electromagnetic compatibility | Conformance with EMC directive |
| Noise emission | EN 61000-6-4 |
| Connection in acc. with standard | CUL |
| Conformance | CE-compliant |

### Conformance/approvals

| | |
|---|---|
| Designation | CE |
| Identification | CE-compliant |

### Environmental Product Compliance

| | |
|---|---|
| REACh SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration” |

## Drawings

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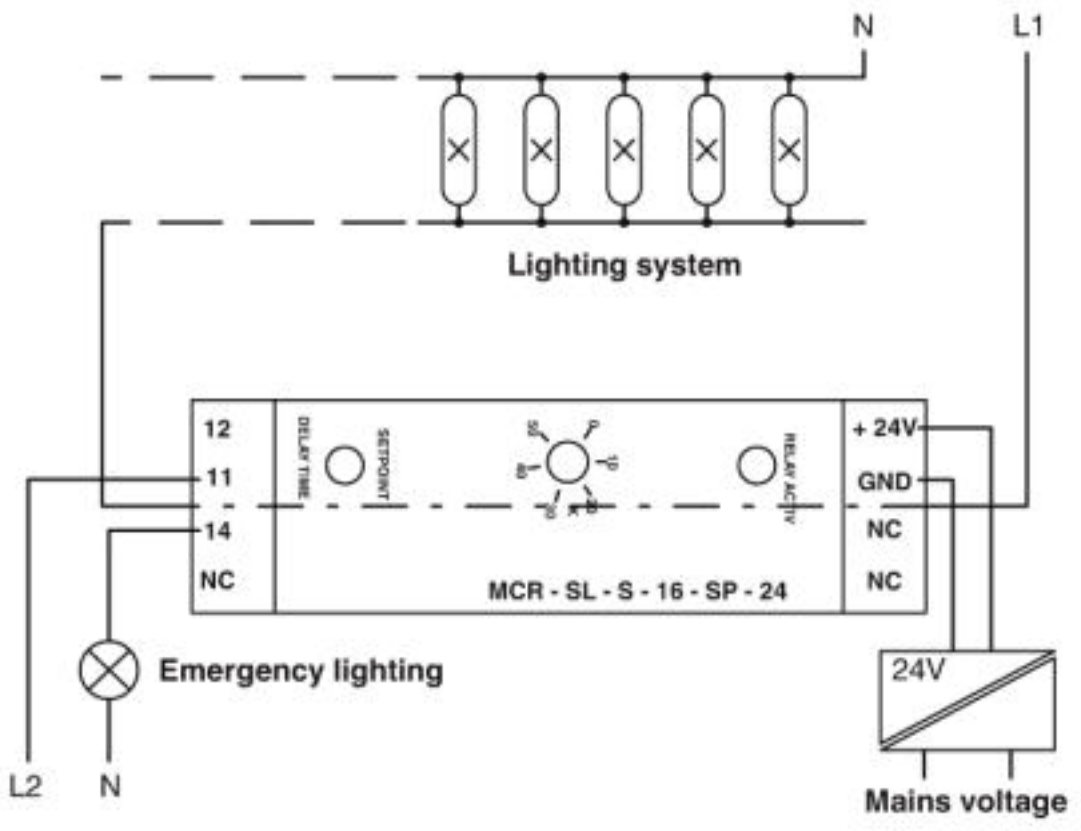
Application drawing




Lighting system with emergency lighting

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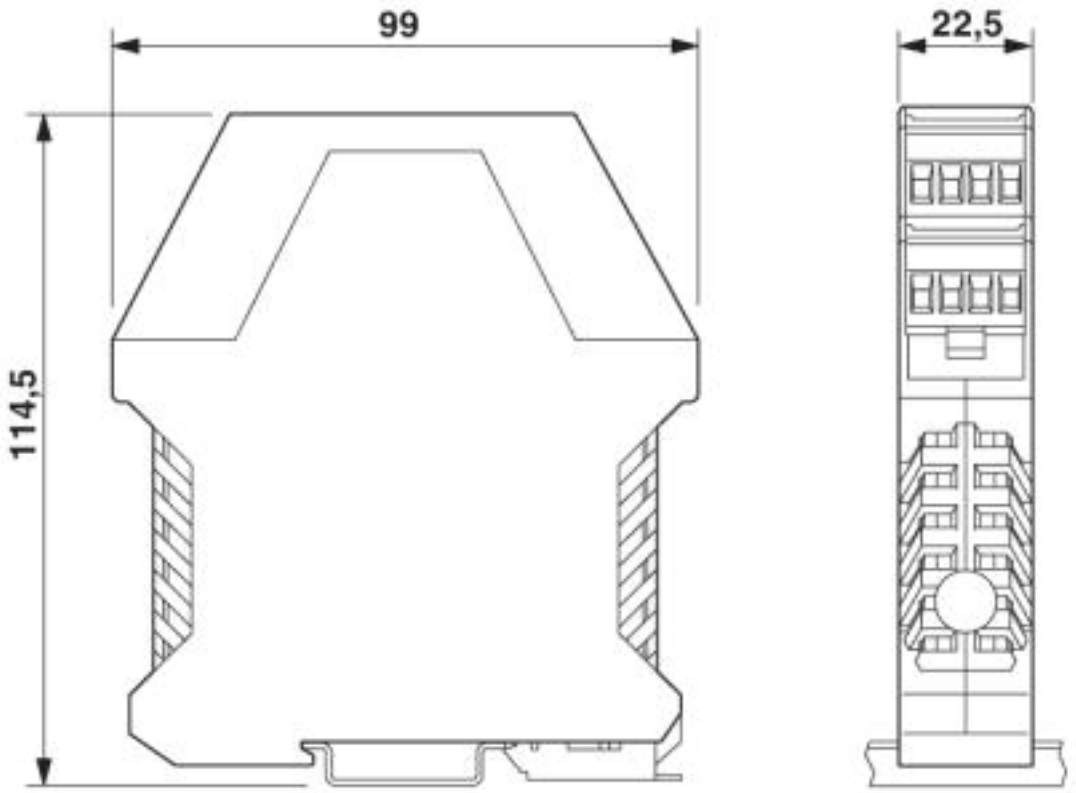
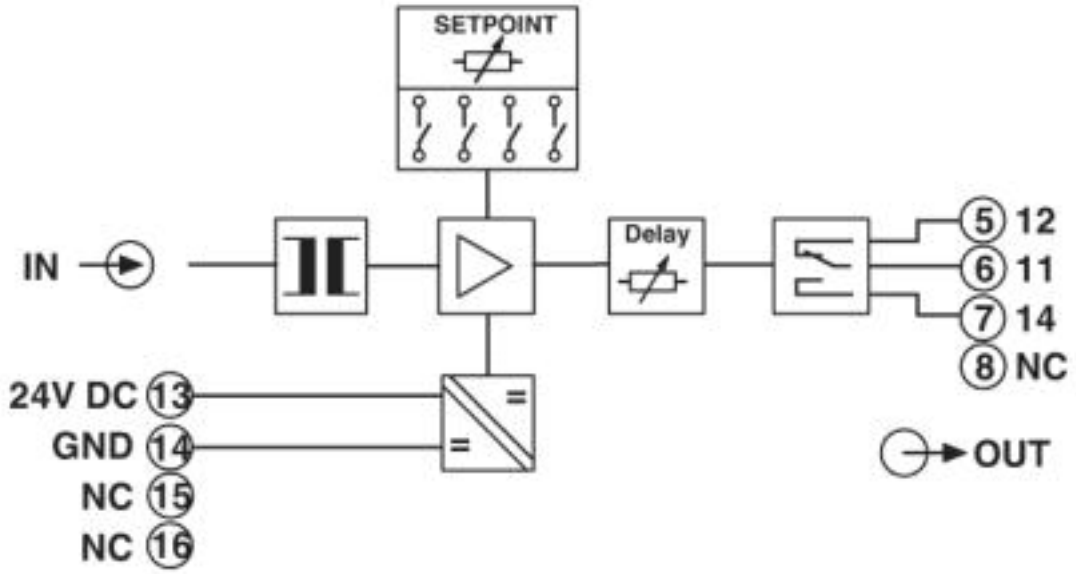
Dimensional drawing




Circuit diagram



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## Classifications

### eCl@ss

| | |
|---|---|
| eCl@ss 10.0.1 | 27371802 |
| eCl@ss 4.0 | 27210900 |
| eCl@ss 4.1 | 27210900 |
| eCl@ss 5.0 | 27371800 |
| eCl@ss 5.1 | 27210900 |
| eCl@ss 6.0 | 27371800 |
| eCl@ss 7.0 | 27371802 |
| eCl@ss 8.0 | 27371802 |
| eCl@ss 9.0 | 27371802 |

### ETIM

| | |
|---|---|
| ETIM 2.0 | EC001440 |
| ETIM 3.0 | EC001440 |
| ETIM 4.0 | EC001440 |
| ETIM 5.0 | EC001440 |
| ETIM 6.0 | EC001440 |
| ETIM 7.0 | EC001440 |

### UNSPSC

| | |
|---|---|
| UNSPSC 6.01 | 30211916 |
| UNSPSC 7.0901 | 39121535 |
| UNSPSC 11 | 39121535 |
| UNSPSC 12.01 | 39121535 |
| UNSPSC 13.2 | 41113637 |
| UNSPSC 18.0 | 41113637 |
| UNSPSC 19.0 | 41113637 |
| UNSPSC 20.0 | 41113637 |
| UNSPSC 21.0 | 41113637 |

## Approvals

### Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

### Approval details

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## Approvals

| | | | |
|---|---|---|---|
| UL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
| cUL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
| EAC | | | RU*DE.*08.B.01852-19 |
| cULus Recognized | | | |



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