

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



2864464

<https://www.phoenixcontact.com/us/products/2864464>

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MCR current protector, for sinusoidal alternating currents 0 ... 16 A AC/ 1 changeover contact



Your advantages

- Adjustable switching hysteresis
- Relay changeover contact 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

Commercial data

Item number	2864464
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C444
Product key	CK4A21
Catalog page	Page 237 (C-5-2019)
GTIN	4017918904456
Weight per piece (including packing)	159.8 g
Weight per piece (excluding packing)	139.2 g
Customs tariff number	85389091
Country of origin	DE

Technical data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Product properties

Product type	Current transducer
Insulation characteristics	
Overvoltage category	III
Pollution degree	2

Electrical properties

Rated insulation voltage	300 V AC (to earth)
Total error	≤ 1.4 % (Temperature range)
Measuring category	III
Test voltage input/output	3.5 kV (50 Hz, 1 min.)
Test voltage input/power supply	3.5 kV (50 Hz, 1 min.)
Protective circuit	Surge protection; 33 V suppressor diode
Step response (10-90%)	40 ms
Maximum temperature coefficient	< 0.02 %/K

Supply

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

Input data

Measurement:

Frequency measuring range	45 Hz ... 60 Hz
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Measurement

Input current range	0 A AC ... 16 A AC (Permitted continuous overload: 120%)
Overload capacity	2 x I _N (continuous)
Nominal frequency f _N	50 Hz
	60 Hz
Frequency measuring range	45 Hz ... 65 Hz
Curve type	Sine

Output data

Switching: Relay

Contact switching type	1 changeover contact
Contact material	AgSnO, hard gold-plated

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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)

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 14
Connection method	Through connection

Dimensions

Item dimensions

Width	22.5 mm
Height	99 mm
Depth	114.5 mm

Circular conductor

Diameter	4.2 mm
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Material specifications

Color	green (RAL 6021)
Housing material	Polyamide PA non-reinforced

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C (non-condensing)
Altitude	≤ 2000 m
Permissible humidity (operation)	10 % ... 95 % (non-condensing)

Approvals

CE

Certificate	CE-compliant
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EMC data

Noise immunity	EN 61000-6-2
Note	When being exposed to interference, there may be minimal

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	deviations.
Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4

Standards and regulations

Standards/regulations	IEC 61010-2-030
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Mounting

Mounting type	DIN rail mounting
Mounting position	any

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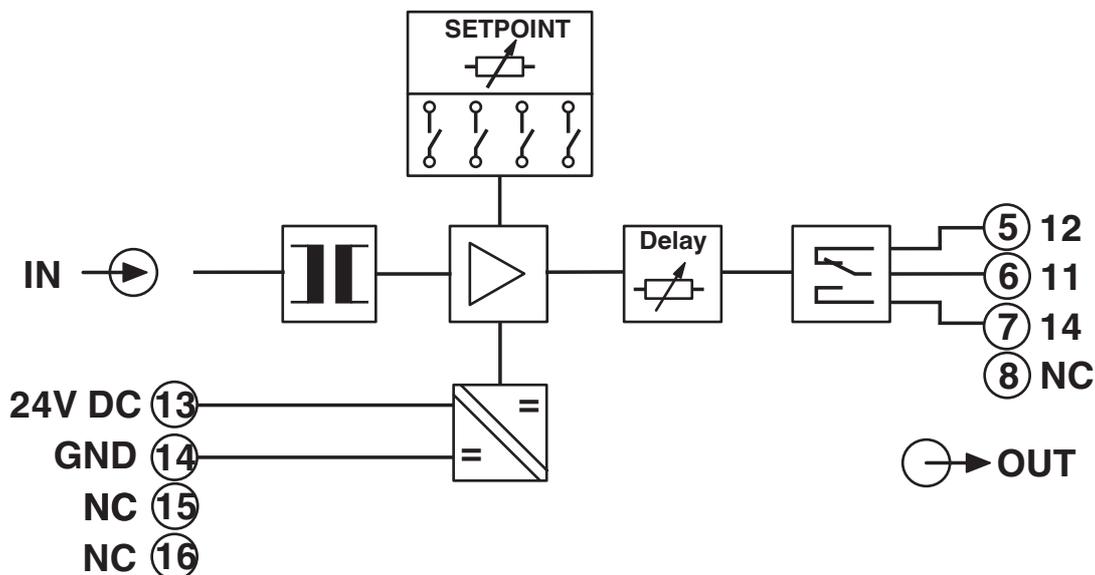


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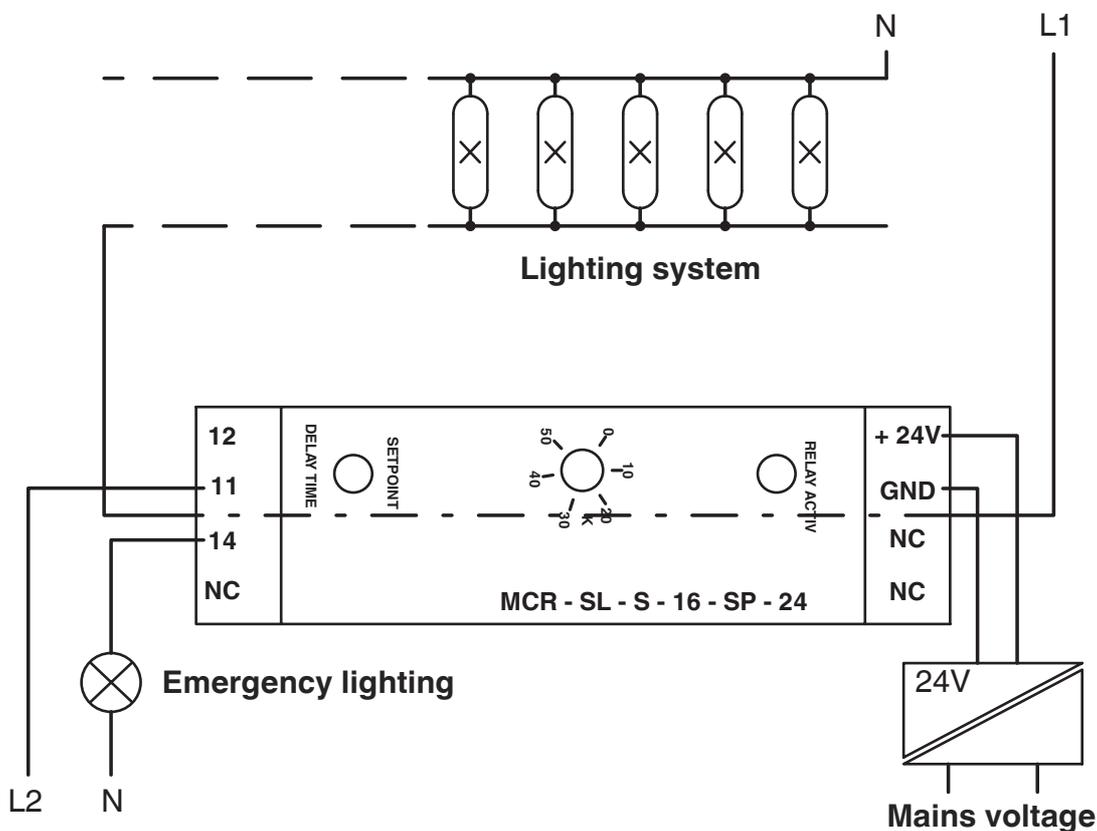
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Drawings

Circuit diagram



Application drawing



Lighting system with emergency lighting

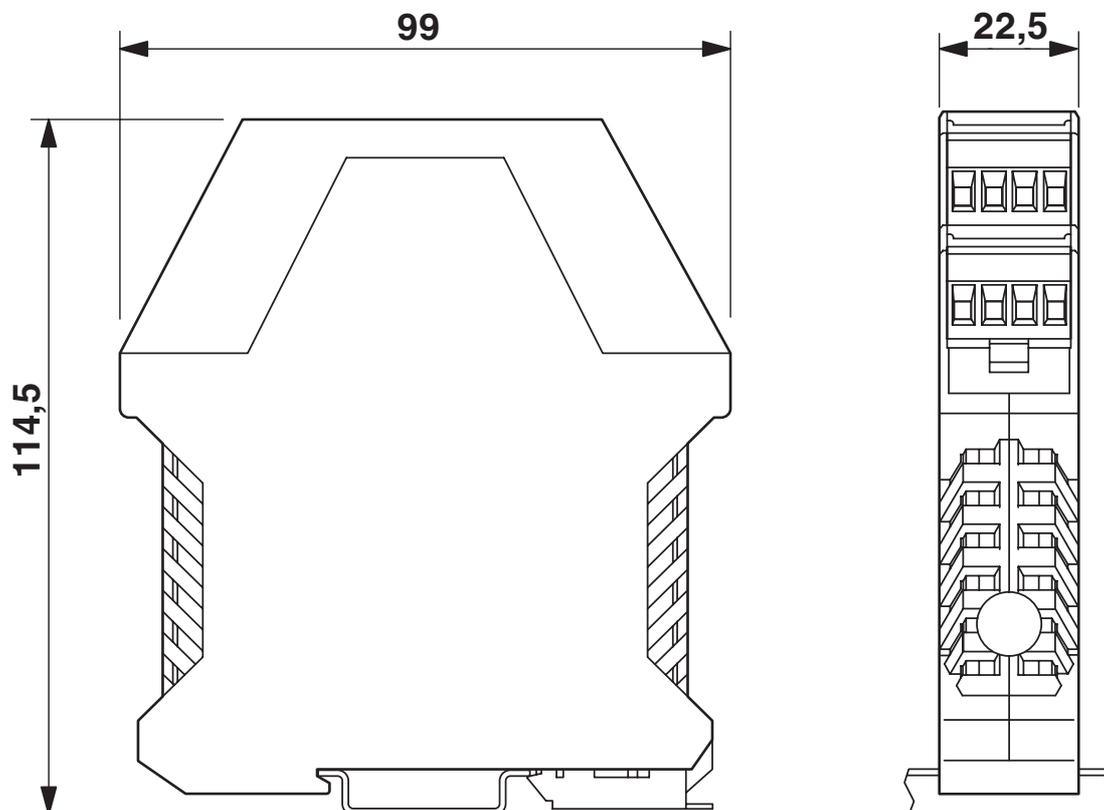
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Dimensional drawing



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2864464>



cUL Recognized

Approval ID: FILE E 238705



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Approval ID: FILE E 238705



EAC

Approval ID: RU*DE.*08.B.01852-19

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Classifications

ECLASS

ECLASS-11.0	27210123
ECLASS-12.0	27210123
ECLASS-13.0	27210123

ETIM

ETIM 9.0	EC002475
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UNSPSC

UNSPSC 21.0	39121000
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 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	612d9570-bbc2-4415-9ebc-e5214cd59614

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