

# EMG 10-REL/KSR-G 48/21-LC AU - Relay module



2964225

<https://www.phoenixcontact.com/us/products/2964225>

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Relay module, with soldered-in miniature switching relay, gold contact for small loads, 1 changeover contact, input voltage 48 V DC

## Your advantages

- Integrated input circuit and interference suppression circuit

## Commercial data

Item number	2964225
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK6141
GTIN	4017918099428
Weight per piece (including packing)	41.97 g
Weight per piece (excluding packing)	41.97 g
Customs tariff number	85364190
Country of origin	DE

## Technical data

### Product properties

Product type	Relay Module
Application	Universal
Operating mode	100% operating factor
Mechanical service life	approx. $2 \times 10^7$ cycles

### Insulation characteristics

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

### Data management status

Date of last data management	01.04.2026
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### Electrical properties

Maximum power dissipation for nominal condition	0.38 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)

### Input data

#### Coil side

Nominal input voltage $U_N$	48 V DC
Input voltage range	43.2 V DC ... 52.8 V DC
Input voltage range in reference to $U_N$	0.9 ... 1.1
Drive and function	monostable
Typical input current at $U_N$	8 mA
Typical response time	7 ms
Typical release time	11 ms
Protective circuit	Reverse polarity protection; Polarity protection diode Freewheeling diode; Freewheeling diode
Operating voltage display	Yellow LED

### Output data

#### Switching

Contact switching type	Double contact, 1 changeover contact
Type of switch contact	Double contact
Contact material	AgPd60, hard gold-plated
Maximum switching voltage	30 V AC 36 V DC
Limiting continuous current	0.5 A
Maximum inrush current	0.2 A
Interrupting rating (ohmic load) max.	5 W (at 24 V DC)

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Switching: when the gold layer is destroyed

Note	the following values are applicable if a gold layer is destroyed
Maximum switching voltage	125 V AC 150 V DC
Limiting continuous current	2 A
Maximum inrush current	2 A
Interrupting rating (ohmic load) max.	29 W (at 24 V DC) 29 W (at 48 V DC) 29 W (at 60 V DC) 60 VA (for 250 V AC)

## Connection data

Coil side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 12

Contact side

Connection method	Screw connection
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Conductor cross-section AWG	24 ... 12

## Dimensions

Width	10.6 mm
Height	75 mm
Depth	62.5 mm

## Material specifications

Color	green (RAL 6021)
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## Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-20 °C ... 40 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

## Standards and regulations

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Standards/regulations	IEC 60664
	EN 50178

## Mounting

Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

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## Drawings

Connection diagram



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Circuit diagram



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## Environmental product compliance

### 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.)	No substance above 0.1 wt%
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