

# UMK- 2 REL/KSR-G24/SO350 - Relay module



2976941

<https://www.phoenixcontact.com/us/products/2976941>

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Customer-specific relay module, with plug-in bases for two miniature switching relays

## Commercial data

Item number	2976941
Packing unit	1 pc
Minimum order quantity	20 pc
Note	Made to order (non-returnable)
Product key	DK61Y1
GTIN	4017918281281
Weight per piece (including packing)	143.833 g
Weight per piece (excluding packing)	125.77 g
Country of origin	DE

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## Technical data

### Product properties

Product type	Relay Module
Mechanical service life	5x 10 <sup>7</sup> cycles

### Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

### Electrical properties

#### Air clearances and creepage distances

Rated insulation voltage	63 V
Rated surge voltage	0.6 kV (1.2/50 µs)

### Input data

Nominal input voltage U <sub>N</sub>	24 V DC
Input voltage range in reference to U <sub>N</sub>	0.8 ... 1.1
Input voltage range	19.2 V DC ... 26.4 V DC
Typical input current at U <sub>N</sub>	22 mA (per relay)
Typical response time	8 ms
Typical release time	10 ms
Protective circuit	Free running; Freewheeling diode

### Output data

#### Switching

Contact switching type	Single contact, 1 changeover contact (K1), 2 changeover contacts (K2)
Contact material	AgCdO
Maximum switching voltage	31 V DC (Limited by the built-in varistor)
Limiting continuous current	3 A
Interrupting rating (ohmic load) max.	72 W (24 V DC)

### Connection data

#### Input

Connection method	Screw connection
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	26 ... 14

#### Output

Connection method	Screw connection
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Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	26 ... 14

## Dimensions

Width	56.5 mm
Height	77 mm
Depth	61 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP00
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-20 °C ... 50 °C
Altitude	≤ 2000 m

## Standards and regulations

### Air clearances and creepage distances

Standards/regulations	DIN EN 50178: 1998-04
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## Mounting

Mounting type	DIN rail mounting
Mounting position	any

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2976941>



**EAC**

Approval ID: RU\*C-DE.\*08.B.00010

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## Classifications

### ECLASS

ECLASS-13.0	27371601
ECLASS-15.0	27371601

### ETIM

ETIM 10.0	EC001437
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### UNSPSC

UNSPSC 21.0	39122300
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	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	050d4f39-8a80-4671-8f6c-f591d37fc8f7

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