

UMK-16 RM 24DC/MKDS - Multiple relay module



2972990
<https://www.phoenixcontact.com/us/products/2972990>

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VARIOFACE module, for 16 plug-in miniature relays or miniature optocouplers, with LED, 24 V DC input voltage

Commercial data

Item number	2972990
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	CK6164
Catalog page	Page 551 (C-7-2013)
GTIN	4017918088910
Weight per piece (including packing)	460.6 g
Weight per piece (excluding packing)	460.6 g
Customs tariff number	85364190
Country of origin	DE

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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	Multi-channel relay module
No. of channels	16
Compatible components	Miniature relays or miniature optocouplers
With components	no

Insulation characteristics

Overvoltage category	III
Pollution degree	2

Electrical properties

No. of channels	16
Maximum power dissipation for nominal condition	48 mW
Rated insulation voltage	260 V AC
Rated surge voltage	4 kV (Basic insulation between output contact current paths) 6 kV (Safe isolation and reinforced insulation between input circuit and output contact paths)

Input data

Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	0.8 ... 1.1
Typical input current at U_N	2 mA (Light indicator)
Protective circuit	Freewheeling diode; Freewheeling diode Reverse polarity protection; Polarity protection diode
Operating voltage display	Yellow LED
Status display/channel	Yellow LED

Output data

Compatible components	Miniature relays or miniature optocouplers
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Switching

Contact switching type	1 changeover contact
Maximum switching voltage	250 V AC/DC
Limiting continuous current	5 A
Maximum inrush current	8 A
Error detection (line break / short-circuit)	no

Connection data

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2972990

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Input

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Number of connections	1
Number of positions	20
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 12

Output

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Number of connections	48
Number of positions	3
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 12

Signaling

Status display present	Yes
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Dimensions

Width	259 mm
Height	77 mm
Depth	59 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP00
Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Standards and regulations

Standards/regulations	DIN EN 50178
	IEC 60664

Mounting

Mounting type	DIN rail mounting
Mounting position	any

UMK-16 RM 24DC/MKDS - Multiple relay module

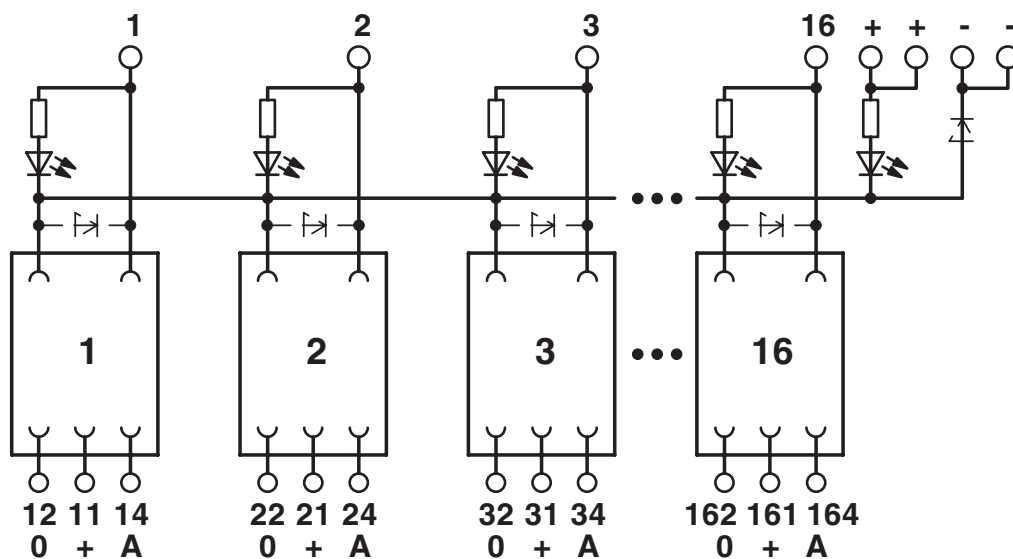


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Drawings

Circuit diagram



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Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2972990>



EAC

Approval ID: TR_TS_D_00573_c



EAC

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

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2972990

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Classifications

ECLASS

ECLASS-11.0	27371603
ECLASS-12.0	27371603
ECLASS-13.0	27371603

ETIM

ETIM 9.0	EC001456
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UNSPSC

UNSPSC 21.0	39122300
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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2972990

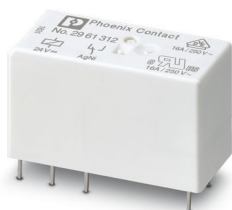
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Mandatory accessories

REL-MR- 24DC/21HC - Single relay

2961312

<https://www.phoenixcontact.com/us/products/2961312>



Plug-in miniature power relay, with power contact for high continuous currents, 1 changeover contact, input voltage 24 V DC

REL-MR- 24DC/21HC AU - Single relay

2961545

<https://www.phoenixcontact.com/us/products/2961545>



Plug-in miniature power relay, with multi-layer gold contact for high continuous currents, 1 changeover contact, input voltage 24 V DC

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OPT-24DC/230AC/ 2 - Miniature solid-state relay

2982171

<https://www.phoenixcontact.com/us/products/2982171>



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 24 - 253 V AC/2 A

OPT-24DC/ 24DC/ 5 - Miniature solid-state relay

2982100

<https://www.phoenixcontact.com/us/products/2982100>



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 - 33 V DC/5 A

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