

UM- 8RM/KSR-G24/21/SI/PLC - Active module



2900892

<https://www.phoenixcontact.com/pc/products/2900892>

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VARIOFACE output module, with 8 miniature relays, 1 changeover contact and fuse each, plugged, for 24 V DC (incl. relay)

Your advantages

- Slim overall width of just 127 mm
- Supply voltage indicator (LED)
- LED status indicator and freewheeling diode per signal path
- Polarity protection diode
- Fuse per output circuit as short-circuit protection
- Plug-in miniature relays each, with a changeover contact with or without lockable manual actuation

Commercial data

Item number	2900892
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CK2171
Catalog page	Page 565 (C-7-2015)
GTIN	4046356545112
Weight per piece (including packing)	435 g
Weight per piece (excluding packing)	434.8 g
Customs tariff number	85369010
Country of origin	DE

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Technical data

Product properties

Product type	Interface module
No. of channels	8
Operating mode	100% operating factor
Mechanical service life	3x 10 ⁷ cycles
With components	yes

Insulation characteristics: Air and creepage distances, output/output

Overvoltage category	III
Pollution degree	2

Electrical properties

No. of channels	8
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Air and creepage distances, output/output

Rated insulation voltage	300 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)

Supported controller MITSUBISHI MELSEC Q

Suitable I/O card	QY82P
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Supported controller MITSUBISHI MELSEC L

Suitable I/O card	LY41PT1P
	LY42PT1P

Input data

Nominal input voltage U _N	24 V DC
Input voltage range in reference to U _N	0.9 ... 1.1
Input voltage range	21.6 V DC ... 26.4 V DC
Typical input current at U _N	17 mA
Typical response time	8 ms
Typical release time	10 ms
Protective circuit	Freewheeling diode
Operating voltage display	Green LED
Status display/channel	Yellow LED

Output data

Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgNi

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Maximum switching voltage	250 V AC
	63 V DC
Minimum switching voltage	12 V AC/DC
Limiting continuous current	3.9 A (observe derating)
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	93 W (24 V DC)
	58 W (48 V DC)
	48 W (60 V DC)
	975 VA (250 V AC)
Output fuse	4 A 5x20 fuse (slow-blow)

Connection data

Controller level

Connection method	IDC/FLK pin strip
Number of connections	1
Number of positions	14
Pitch	2.54 mm

Field level

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
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

Supply

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Number of connections	2
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	127 mm
Height	112 mm
Depth	59.5 mm

Environmental and real-life conditions

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Ambient conditions

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

Standards and regulations

Air and creepage distances, output/output

Standards/regulations	EN 61010-2-201
	IEC 60664

Mounting

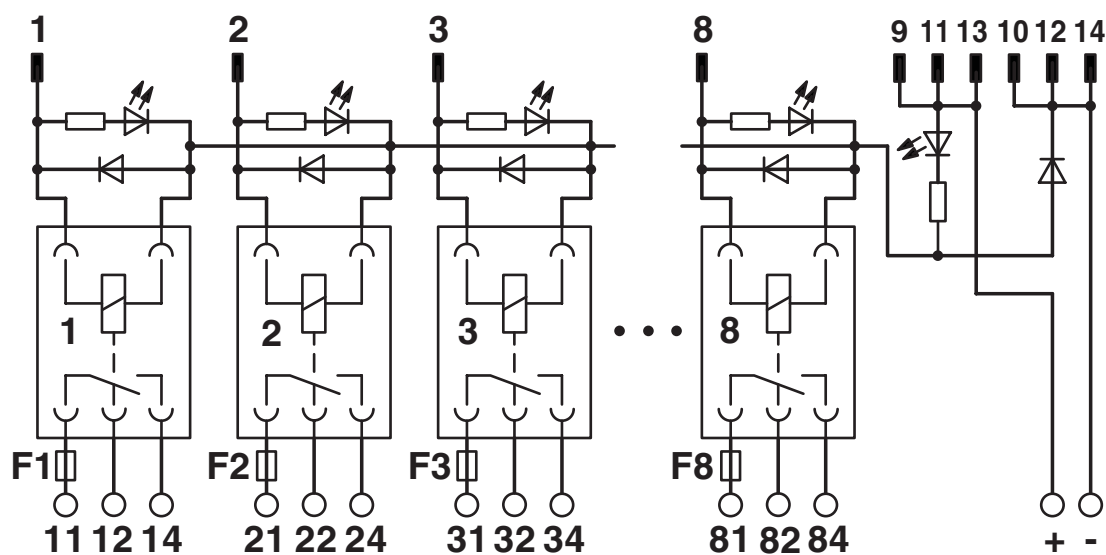
Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing
Mounting position	any

Notes

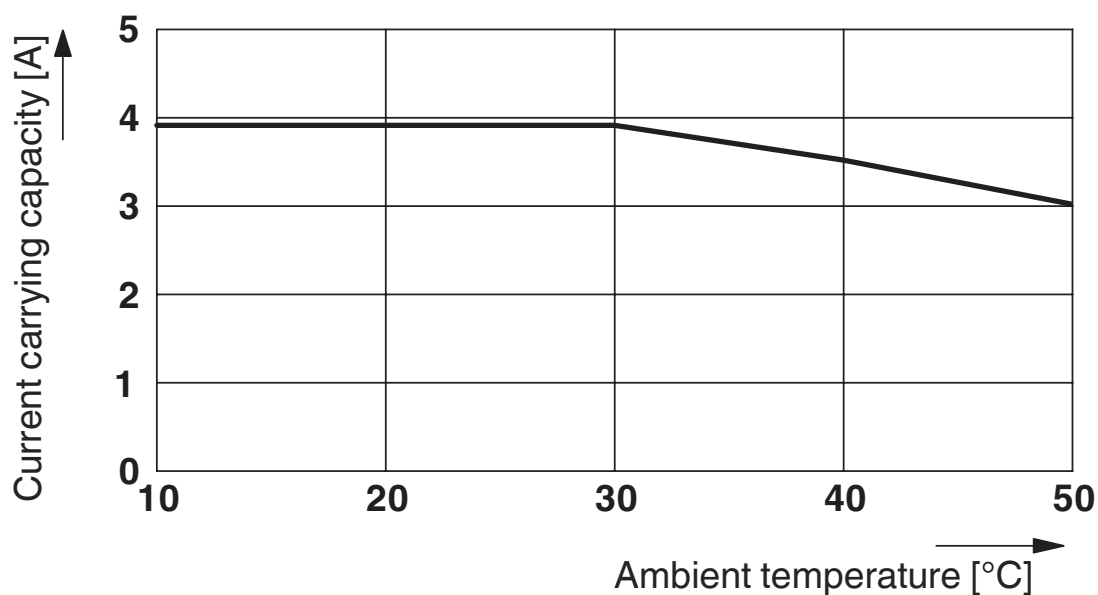
General	Observe the maximum switching capacity of the relays used
General	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
General	The outputs are not suitable for switching different line conductors. The sum of the switching voltages used for adjacent outputs must not exceed the rated insulation voltage value
General	The necessary requirements for insulation (basic insulation or reinforced insulation) from adjacent modules (in DIN-rail direction) must be realized by applying suitable measures (e. g., partition plates).
General	For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met.

Drawings

Circuit diagram



Diagram



Derating curve for limiting continuous current

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Approvals

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EAC

Approval ID: RU*DE*08.B.01841/19

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Classifications

ECLASS

ECLASS-11.0	27141152
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ETIM

ETIM 8.0	EC002780
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
	Hexahydromethylphthalic anhydride
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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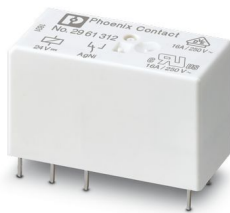


Accessories

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

2961312

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



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

SIM-ERSN-HB-MR - Retaining bracket

2271471

<https://www.phoenixcontact.com/pc/products/2271471>

Retainer, for miniature relay



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