

PLC-RSP- 48DC/21 - Relay module

2966498

<https://www.phoenixcontact.com/us/products/2966498>



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



PLC-INTERFACE, consisting of PLC-BSP.../21 basic terminal block with spring-cage connection and plug-in miniature relay with power contact, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 48 V DC

The figure shows the version PLC-RSC-24DC/21

Your advantages

- Slim design
- Efficient connection to system cabling using V8 adapter
- Safe isolation between coil and contact side
- RT III sealed relay
- Integrated input circuit and interference suppression circuit
- Functional plug-in bridges

Commercial data

Item number	2966498
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C461
Product key	DK621A
GTIN	4017918165321
Weight per piece (including packing)	32.01 g
Weight per piece (excluding packing)	30.17 g
Customs tariff number	85364190
Country of origin	DE

PLC-RSP- 48DC/21 - Relay module



2966498

<https://www.phoenixcontact.com/us/products/2966498>

Technical data

Notes

Utilization restriction

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

Product properties

Product type	Relay Module
Product family	PLC-INTERFACE
Application	Universal
Operating mode	100% operating factor
Mechanical service life	2x 10 ⁷ cycles

Insulation characteristics: Standards/regulations

Overvoltage category	III
Pollution degree	3

Data management status

Date of last data management	12.09.2025
------------------------------	------------

Electrical properties

Maximum power dissipation for nominal condition	0.44 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	37.4 V DC ... 60 V DC
Typical input current at U_N	9.2 mA
Typical response time	5 ms
Typical release time	8 ms
Protective circuit	Reverse polarity protection; Polarity protection diode Freewheeling diode; Freewheeling diode
Operating voltage display	Yellow LED

Output data

Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC (The separating plate PLC-ATP should be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules. Potential bridging is then

PLC-RSP- 48DC/21 - Relay module



2966498

<https://www.phoenixcontact.com/us/products/2966498>

	carried out with FBST 8-PLC... or ...FBST 500...)
Minimum switching voltage	5 V (at 100 mA)
Limiting continuous current	6 A
Maximum inrush current	on request
Min. switching current	10 mA (at 12 V)
Interrupting rating (ohmic load) max.	140 W (24 V DC)
	20 W (48 V DC)
	18 W (60 V DC)
	23 W (110 V DC)
	40 W (220 V DC)
	1500 VA (250 V AC)
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.1 A (at 220 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	3 A (at 230 V, AC15)

Connection data

Coil side

Connection method	Spring-cage connection
Stripping length	8 mm
Conductor cross-section rigid	0.14 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross-section AWG	26 ... 14

Contact side

Connection method	Spring-cage connection
Stripping length	8 mm
Conductor cross-section rigid	0.14 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross-section AWG	26 ... 14

Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Material specifications

Color	green (RAL 6021)
Flammability rating according to UL 94 (Housing)	V0 (Housing)

Environmental and real-life conditions

Ambient conditions

PLC-RSP- 48DC/21 - Relay module



2966498

<https://www.phoenixcontact.com/us/products/2966498>

Degree of protection (Relay base)	IP20 (Relay base)
Ambient temperature (operation)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Standards and regulations

Standards/regulations

Standards/regulations	IEC 60664
	IEC 60947-5-1

Mounting

Assembly note	in rows with zero spacing
Mounting position	any

Drawings

Diagram



Curve A

Maximum permissible continuous voltage U_{max} with limiting continuous current on the contact side (see relevant technical data)

Curve B

Minimum permissible operate voltage U_{op} after pre-excitation (see relevant technical data)

Diagram



Interrupting rating

Circuit diagram



PLC-RSP- 48DC/21 - Relay module



2966498

<https://www.phoenixcontact.com/us/products/2966498>

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%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com