

# PLC-RPT- 48DC/21HC/MS - Relay Module



2910532

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PLC-INTERFACE, consisting of a relay base and pluggable power contact relay with manual operation, integrated status LED and freewheeling diode, Push-in connection, 1 changeover contact, Bridge rectifier, Input voltage: 48 V DC

## Commercial data

Item number	2910532
Packing unit	1 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	C461
Product key	CK623A
Catalog page	Page 369 (C-5-2019)
GTIN	4055626486833
Weight per piece (including packing)	77.02 g
Weight per piece (excluding packing)	64 g
Customs tariff number	85364190
Country of origin	DE

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## Set consists of

### PLC-BPT- 48DC/21HC/H - Relay base

1012308

<https://www.phoenixcontact.com/us/products/1012308>



14 mm PLC basic terminal block without relay, for mounting on DIN rail  
NS 35/7,5, Push-in connection, 1 changeover contact, Input voltage 48 V DC

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

2987888

<https://www.phoenixcontact.com/us/products/2987888>



Plug-in miniature relay, with power contact, 1 changeover contact, test button,  
mechanical switching position indicator, status LED, freewheeling diode, polarity  
A1+, A2-, input voltage 24 V DC

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## Technical data

### Product properties

Product type	Relay Module
Product family	PLC-INTERFACE
Application	Palm switch
	High continuous currents
Operating mode	100% operating factor
Mechanical service life	5x 10 <sup>6</sup> cycles

### Insulation characteristics

Insulation	Safe isolation, reinforced insulation
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### Insulation characteristics

Insulation	Safe isolation, reinforced insulation
Overvoltage category	III
Pollution degree	2

### Electrical properties

Test voltage (Winding/contact)	4 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact)
Rated insulation voltage	250 V AC
Rated surge voltage	6 kV

### Input data

#### Coil side

Nominal input voltage U <sub>N</sub>	48 V DC
Input voltage range	40.3 V DC ... 60 V DC (20 °C)
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U <sub>N</sub>	19 mA
Typical response time	6 ms
Typical release time	10 ms
Coil voltage	24 V DC
Protective circuit	Bridge rectifier; Bridge rectifier
Operating voltage display	Yellow LED

### Output data

#### Switching

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

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	carried out with FBST 8-PLC... or ...FBST 500...)
Minimum switching voltage	12 V (10 mA)
Limiting continuous current	10 A
Maximum inrush current	24 A (20 ms)
Min. switching current	10 mA (12 V)
Interrupting rating (ohmic load) max.	264 W (24 V DC)
	62 W (48 V DC)
	48 W (60 V DC)
	52 W (110 V DC)
	66 W (220 V DC)
	2750 VA (250 V AC)
Switching capacity	1 A (24 V, DC13)
	1.5 A (230 V, AC15)

## Connection data

Connection method	Push-in connection
Stripping length	10 mm
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> ... 2.5 mm <sup>2</sup>
	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Single ferrule)
	2x 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup> (TWIN ferrule)
Conductor cross section AWG	26 ... 14

## Dimensions

Width	14 mm
Height	80 mm
Depth	104 mm

## Material specifications

Flammability rating according to UL 94	V0 (Housing)
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection (Relay)	RT II (Relay)
Degree of protection (Relay base)	IP20 (Relay base)
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 2000 m

## Approvals

### UL, USA

Identification	UL 508
	UL 508 Recognized

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## UL, USA/Canada

Identification	UL 508
	UL 508 Recognized

## Corrosive gas test

Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

## Standards and regulations

Standards/regulations	IEC 60947-5-1
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## Mounting

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

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## Classifications

### ECLASS

ECLASS-11.0	27371601
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### ETIM

ETIM 8.0	EC001437
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### UNSPSC

UNSPSC 21.0	39122300
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## Environmental product compliance

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