

# BC 17-REL/1/MSTB/R3,3K/R680 - Relay module



2901881

<https://www.phoenixcontact.com/us/products/2901881>

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Relay module, standard interface for fire alarm systems, with miniature relay securely soldered in, 1 N/O contact, input voltage: 24 V AC

## Commercial data

Item number	2901881
Packing unit	10 pc
Minimum order quantity	30 pc
Product key	DK617Y
GTIN	4046356638593
Weight per piece (including packing)	200 g
Weight per piece (excluding packing)	200 g
Country of origin	DE

## 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	Relay Module
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#### Insulation characteristics: Air clearances and creepage distances, input/output

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

#### Data management status

Date of last data management	12.09.2025
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### Electrical properties

#### Air clearances and creepage distances, input/output

Rated insulation voltage	250 V
Rated surge voltage	4 kV (1.2/50 $\mu$ s)

### Input data

#### Coil side

Nominal input voltage $U_N$	24 V AC
Input voltage range in reference to $U_N$	0.8 ... 1.1
Typical input current at $U_N$	10 mA
Protective circuit	Bridge rectifier; Bridge rectifier, varistor Capacitor; Capacitor
Operating voltage display	LED

### Output data

#### Switching

Contact switching type	1 N/O contact
Contact material	AgSnO <sub>2</sub> , gold-plated
Note	A 660 $\Omega$ resistor is connected in series and a 3.3 k $\Omega$ resistor is connected in parallel with the output
Maximum switching voltage	30 V AC
Limiting continuous current	max. 3 A

### Connection data

#### Input

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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> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	26 ... 14

## Output

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> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	26 ... 14

## Dimensions

Width	17.8 mm
Height	90 mm
Depth	61 mm

## Material specifications

Color	gray (RAL 7042)
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-20 °C ... 50 °C

## Standards and regulations

### Air clearances and creepage distances, input/output

Standards/regulations	EN 50178
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## Mounting

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

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## 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%
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