

BC 17 REL-S/MSTB/R10K/R1K - Relay module



1003549

<https://www.phoenixcontact.com/us/products/1003549>

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.



Relay module, standard interface for fire alarm systems, with a firmly soldered miniature relay, 1 N/C contact, input voltage: 24 V DC

Commercial data

Item number	1003549
Packing unit	1 pc
Minimum order quantity	50 pc
Product key	DK61Y1
GTIN	4055626470863
Weight per piece (including packing)	76 g
Weight per piece (excluding packing)	76 g
Country of origin	DE

1003549

<https://www.phoenixcontact.com/us/products/1003549>

Technical data

Product properties

Product type	Relay Module
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

Electrical properties

Air clearances and creepage distances, input/output

Rated insulation voltage	250 V
Rated surge voltage	4 kV (1.2/50 µs)

Input data

Coil side

Nominal input voltage U_N	24 V DC
Input voltage range	19.2 V DC ... 26.4 V DC (20 °C)
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/C contact
Contact material	AgSnO ₂ , gold-plated
Note	One 1 kΩ resistor is connected in series and one 10 kΩ resistor is connected in parallel with the output
Maximum switching voltage	30 V AC
Limiting continuous current	max. 10 mA

Connection data

Input

Connection method	Screw connection
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

BC 17 REL-S/MSTB/R10K/R1K - Relay module



1003549

<https://www.phoenixcontact.com/us/products/1003549>

Output

Connection method	Screw connection
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	17.8 mm
Height	90 mm
Depth	61 mm

Material specifications

Color	gray (RAL 7042)
-------	-----------------

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
Altitude	≤ 2000 m

Standards and regulations

Air clearances and creepage distances, input/output

Standards/regulations	EN 50178
-----------------------	----------

Mounting

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

BC 17 REL-S/MSTB/R10K/R1K - Relay module



1003549

<https://www.phoenixcontact.com/us/products/1003549>

Classifications

ECLASS

ECLASS-13.0

27371601

UNSPSC

UNSPSC 21.0

39122300

1003549

<https://www.phoenixcontact.com/us/products/1003549>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a)

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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)

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