

# ECOR-1-BSC2-RT/2X21 - Relay base



1027546

<https://www.phoenixcontact.com/us/products/1027546>

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ECOR-1... relay base, for miniature power relays or miniature switching relays with 1 or 2 changeover contacts, bolt connection, for mounting on NS 35/7,5.



## Commercial data

Item number	1027546
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C463
Product key	DKF312
GTIN	4055626522210
Weight per piece (including packing)	35.297 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85366990
Country of origin	CN

## Technical data

### Notes

Notes on operation	Do not use to separate SELV / PELV circuits from other circuits, because safe isolation is not guaranteed.
Notes on operation	The outputs are not suitable for switching different outer conductors.
Notes on operation	The system installer must ensure the touch protection of the product (at voltages > 25 V AC/60 V DC). The product is a built-in device without protection against direct contact.
Notes on operation	At least a basic level of insulation is maintained against adjacent modules in the DIN rail direction. If the application has higher requirements on the insulation (reinforced insulation), then these must be realized through suitable measures (e.g. partition plates).

### Product properties

Product type	Relay socket
Product family	ESSENTIAL edition
Operating mode	100% operating factor

Insulation characteristics: Air clearances and creepage distances between the power circuits

Overvoltage category	III
Pollution degree	2

### Electrical properties

Nominal voltage $U_N$	$\leq 230$ V AC/DC
Nominal current $I_N$	10 A
Test voltage relay winding/relay contact	2 kV <sub>rms</sub> (50 Hz, 1 min.)

Air clearances and creepage distances between the power circuits

Rated insulation voltage	250 V AC
Rated surge voltage	4 kV

### Connection data

#### Input side

Connection method	Bolt connection
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section rigid (2 conductors with same cross section)	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (without ferrule)
	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (with ferrule)
Conductor cross-section flexible (2 conductors with same cross section)	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (without ferrule)
	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (with ferrule)
Conductor cross-section AWG	14
Tightening torque	0.5 Nm ... 0.7 Nm

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## Output side

Connection method	Bolt connection
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section rigid (2 conductors with same cross section)	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (without ferrule)
	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (with ferrule)
Conductor cross-section flexible (2 conductors with same cross section)	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (without ferrule)
	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (with ferrule)
Conductor cross-section AWG	14
Tightening torque	0.5 Nm ... 0.7 Nm

## Dimensions

Width	15.8 mm
Height	71.5 mm
Depth Retaining bracket	58.1 mm (with retaining bracket)

## Material specifications

Color	traffic grey B (RAL 7043)
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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)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Altitude	≤ 2000 m

## Standards and regulations

### Air clearances and creepage distances between the power circuits

Standards/regulations	DIN 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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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1027546>



**cUL Recognized**  
Approval ID: FILE E 113228



**UL Recognized**  
Approval ID: FILE E 113228



**EAC**  
Approval ID: RU C-DE.\*\*08.B.01419



**cULus Recognized**  
Approval ID: E113228

# ECOR-1-BSC2-RT/2X21 - Relay base



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## Classifications

### ECLASS

ECLASS-13.0	27371603
ECLASS-15.0	27371603

### ETIM

ETIM 9.0	EC001456
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### UNSPSC

UNSPSC 21.0	39122300
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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## Mandatory accessories

### REL-MR-BL- 12DC/21HC - Single relay

1109537

<https://www.phoenixcontact.com/us/products/1109537>



Pluggable miniature power relay in basic design, with power contact for high continuous currents, 1 changeover contact, input voltage 12 V DC

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### REL-MR-BL- 48DC/21HC - Single relay

1109538

<https://www.phoenixcontact.com/us/products/1109538>



Pluggable miniature power relay in basic design, with power contact for high continuous currents, 1 changeover contact, input voltage 48 V DC

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## REL-MR-BL-110DC/21HC - Single relay

1109539

<https://www.phoenixcontact.com/us/products/1109539>



Pluggable miniature power relay in basic design, with power contact for high continuous currents, 1 changeover contact, input voltage 110 V DC

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## REL-MR-BL- 24AC/21HC - Single relay

1109540

<https://www.phoenixcontact.com/us/products/1109540>



Pluggable miniature power relay in basic design, with power contact for high continuous currents, 1 changeover contact, input voltage 24 V AC

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## REL-MR-BL-115AC/21HC - Single relay

1109542

<https://www.phoenixcontact.com/us/products/1109542>



Pluggable miniature power relay in basic design, with power contact for high continuous currents, 1 changeover contact, input voltage 115 V AC

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## REL-MR-BL- 12DC/21-21 - Single relay

1109543

<https://www.phoenixcontact.com/us/products/1109543>



Pluggable miniature power relay in basic design, with power contact, 2 changeover contacts, input voltage 12 V DC

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## REL-MR-BL- 24DC/21-21 - Single relay

2906286

<https://www.phoenixcontact.com/us/products/2906286>



Plug-in miniature power relay in basic design, with power contact, 2 changeover contacts, input voltage 24 V DC

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## REL-MR-BL- 48DC/21-21 - Single relay

1109544

<https://www.phoenixcontact.com/us/products/1109544>



Pluggable miniature power relay in basic design, with power contact, 2 changeover contacts, input voltage 48 V DC

# ECOR-1-BSC2-RT/2X21 - Relay base

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## REL-MR-BL-110DC/21-21 - Single relay

1109545

<https://www.phoenixcontact.com/us/products/1109545>



Pluggable miniature power relay in basic design, with power contact, 2 changeover contacts, input voltage 110 V DC

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## REL-MR-BL- 24AC/21-21 - Single relay

1109546

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Pluggable miniature power relay in basic design, with power contact, 2 changeover contacts, input voltage 24 V AC

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## REL-MR-BL-115AC/21-21 - Single relay

1109569

<https://www.phoenixcontact.com/us/products/1109569>



Plug-in miniature power relay in basic design, with power contact, 2 changeover contacts, input voltage 115 V AC

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## REL-MR-BL-230AC/21-21 - Single relay

2906287

<https://www.phoenixcontact.com/us/products/2906287>



Plug-in miniature power relay in basic design, with power contact, 2 changeover contacts, input voltage 230 V AC

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

2906285

<https://www.phoenixcontact.com/us/products/2906285>



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

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## REL-MR-BL-230AC/21HC - Single relay

2906288

<https://www.phoenixcontact.com/us/products/2906288>



Plug-in miniature power relay in basic design, with power contact for high continuous currents, 1 changeover contact, input voltage 230 V AC

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

2908180

<https://www.phoenixcontact.com/us/products/2908180>



Plug-in miniature relay, with power contact, 1 changeover contact, test button, mechanical switch position indicator, polarity: bipolar, input voltage: 24 V DC

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

2908181

<https://www.phoenixcontact.com/us/products/2908181>



Plug-in miniature relay, with power contact, 2 changeover contacts, test button, mechanical switch position indicator, polarity: bipolar, input voltage: 24 V DC

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## Accessories

# ECOR-1-BSC2-RT/2X21 - Relay base

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## DB 50- 90 BU - Wire bridge

2821180

<https://www.phoenixcontact.com/us/products/2821180>

Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 mm<sup>2</sup>, loop length: 90 mm, ferrule length: 8 mm, color: blue



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## DB 50- 90 BK - Wire bridge

2820916

<https://www.phoenixcontact.com/us/products/2820916>

Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 mm<sup>2</sup>, loop length: 90 mm, ferrule length: 8 mm, color: black



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## DB 50- 90 GY - Wire bridge

2820929

<https://www.phoenixcontact.com/us/products/2820929>

Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 mm<sup>2</sup>, loop length: 90 mm, ferrule length: 8 mm, color: gray



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## ECOR-RH-1L - Relay retaining bracket

2907524

<https://www.phoenixcontact.com/us/products/2907524>



Relay retaining bracket, with ejector function and integrated equipment marking area (7.5 x 15 mm), suitable for ECOR-1 relay base, for 16 mm tall miniature switching relays and solid-state relays

# ECOR-1-BSC2-RT/2X21 - Relay base

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## ECOR-RH-1H - Relay retaining bracket

2907523

<https://www.phoenixcontact.com/us/products/2907523>



Relay retaining bracket, with ejector function and integrated equipment marking area (7.5 x 15 mm), suitable for ECOR-1 relay base, for 25 mm tall miniature switching relays and solid-state relays

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## MP 1 - Marker labels

2833631

<https://www.phoenixcontact.com/us/products/2833631>



Equipment marker, labeling surface 6 x 15 mm

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## DB 50- 90 GY - Wire bridge

2820929

<https://www.phoenixcontact.com/us/products/2820929>

Flexible wire loop bridge, 50-pos., conductor cross-section: 0.5 mm<sup>2</sup>, loop length: 90 mm, ferrule length: 8 mm, color: gray



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