ECOR-2-BSC2/4X21 - Relay base

1089994

https://www.phoenixcontact.com/us/products/1089994

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ECOR-2 relay base, for industrial relay with 2 or 4 changeover contacts, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

Commercial data

Item number	1089994
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C463
Product key	DKF312
GTIN	4055626897837
Weight per piece (including packing)	68.75 g
Weight per piece (excluding packing)	68 g
Customs tariff number	85366990
Country of origin	CN

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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	II
Pollution degree	2

Electrical properties

Nominal voltage U_N	≤ 230 V AC/DC
Test voltage relay winding/relay contact	2.5 kV_{rms} (50 Hz, 1 min.)

Air clearances and creepage distances between the power circuits

Rated insulation voltage	250 V AC
Rated surge voltage	2.5 kV

Connection data

Input side

Connection method	Screw connection
Stripping length	7 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm² ... 4 mm²
Conductor cross-section flexible	0.2 mm² ... 2.5 mm² (without ferrule)
	0.2 mm² ... 1.5 mm² (with ferrule)
Conductor cross-section AWG	12
Tightening torque	0.5 Nm ... 0.7 Nm

Output side

Connection method	Screw connection
Stripping length	7 mm

Screw thread	M3
Conductor cross-section rigid	0.2 mm² ... 4 mm²
Conductor cross-section flexible	0.2 mm² ... 2.5 mm² (without ferrule)
	0.2 mm² ... 1.5 mm² (with ferrule)
Conductor cross-section AWG	12
Tightening torque	0.5 Nm ... 0.7 Nm

Dimensions

Width	27 mm
Height	75 mm
Depth Retaining bracket	84 mm (with retaining bracket)

Material specifications

Color	traffic grey B (RAL 7043)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 ()
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-25 °C ... 70 °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

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/1089994

cUL Recognized
Approval ID: FILE E 113228

UL Recognized
Approval ID: FILE E 113228

cULus Recognized
Approval ID: E113228

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Classifications

ECLASS

ECLASS-13.0	27371603
ECLASS-15.0	27371603

ETIM

ETIM 9.0	EC001456

UNSPSC

UNSPSC 21.0	39122300

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

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-IR-BL/L- 12DC/4X21 - Single relay

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Plug-in industrial relay in basic design with power contacts, 4 changeover contacts, test button, status LED, mechanical switch position indicator, polarity A1+, A2-, input voltage: 12 V DC

REL-IR-BL/L- 48DC/4X21 - Single relay

1109558

https://www.phoenixcontact.com/us/products/1109558

Plug-in industrial relay in basic design with power contacts, 4 changeover contacts, test button, status LED, mechanical switch position indicator, polarity A1+, A2-, input voltage: 48 V DC

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REL-IR-BL/L-110DC/4X21 - Single relay

1109560

https://www.phoenixcontact.com/us/products/1109560

Plug-in industrial relay in basic design with power contacts, 4 changeover contacts, test button, status LED, mechanical switch position indicator, polarity A1+, A2-, input voltage: 110 V DC

REL-IR-BL/L-125DC/4X21 - Single relay

1109561

https://www.phoenixcontact.com/us/products/1109561

Plug-in industrial relay in basic design with power contacts, 4 changeover contacts, test button, status LED, mechanical switch position indicator, polarity A1+, A2-, input voltage: 125 V DC

ECOR-2-BSC2/4X21 - Relay base

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REL-IR-BL/L-220DC/4X21 - Single relay

1109562

https://www.phoenixcontact.com/us/products/1109562

Plug-in industrial relay in basic design with power contacts, 4 changeover contacts, test button, status LED, mechanical switch position indicator, polarity A1+, A2-, input voltage: 220 V DC

REL-IR-BL/L- 24AC/4X21 - Single relay

1109563

https://www.phoenixcontact.com/us/products/1109563

Plug-in industrial relay in basic design with power contacts, 4 changeover contacts, test button, status LED, mechanical switch position indicator, input voltage: 24 V AC

ECOR-2-BSC2/4X21 - Relay base

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REL-IR-BL/L-115AC/4X21 - Single relay

1109564

https://www.phoenixcontact.com/us/products/1109564

Plug-in industrial relay in basic design with power contacts, 4 changeover contacts, test button, status LED, mechanical switch position indicator, input voltage: 115 V AC

REL-IR-BL- 24DC/4X21 - Single relay

1032521

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Plug-in industrial relay in basic design with power contacts, 4 changeover contacts, test key, mechanical switch position indicator, polarity A1+, A2-, input voltage: 24 V DC

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REL-IR-BL-230AC/4X21 - Single relay

1032529

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Plug-in industrial relay in basic design with power contacts, 4 changeover contacts, test key, mechanical switch position indicator, input voltage: 230 V AC

REL-IR-BL/L-230AC/4X21 - Single relay

1032531

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Plug-in industrial relay with power contacts, 4 changeover contacts, test button, status LED, mechanical switch position indicator, input voltage: 230 V AC

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REL-IR-BL/L- 24DC/4X21 - Single relay

1032527

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Plug-in industrial relay with power contacts, 4 changeover contacts, test button, status LED, mechanical switch position indicator, input voltage: 24 V DC

REL-IR-BL/L- 24DC/2X21 - Single relay

1032526

https://www.phoenixcontact.com/us/products/1032526

Plug-in industrial relay with power contacts, 2 changeover contacts, test button, status LED, mechanical switch position indicator, input voltage: 24 V DC

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REL-IR-BL- 24DC/2X21 - Single relay

1032470

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Plug-in industrial relay in basic design with power contacts, 2 changeover contacts, test key, mechanical switch position indicator, polarity A1+, A2-, input voltage: 24 V DC

REL-IR-BL/L-230AC/2X21 - Single relay

1032530

https://www.phoenixcontact.com/us/products/1032530

Plug-in industrial relay with power contacts, 2 changeover contacts, test button, status LED, mechanical switch position indicator, input voltage: 230 V AC

ECOR-2-BSC2/4X21 - Relay base

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REL-IR-BL-230AC/2X21 - Single relay

1032528

https://www.phoenixcontact.com/us/products/1032528

Plug-in industrial relay in basic design with power contacts, 2 changeover contacts, test key, mechanical switch position indicator, input voltage: 230 V AC

REL-IR-BL/L- 12DC/2X21 - Single relay

1109547

https://www.phoenixcontact.com/us/products/1109547

Plug-in industrial relay in basic design with power contacts, 2 changeover contacts, test button, status LED, mechanical switch position indicator, polarity A1+, A2-, input voltage: 12 V DC

ECOR-2-BSC2/4X21 - Relay base

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REL-IR-BL/L- 48DC/2X21 - Single relay

1109548

https://www.phoenixcontact.com/us/products/1109548

Plug-in industrial relay in basic design with power contacts, 2 changeover contacts, test button, status LED, mechanical switch position indicator, polarity A1+, A2-, input voltage: 48 V DC

REL-IR-BL/L-110DC/2X21 - Single relay

1109550

https://www.phoenixcontact.com/us/products/1109550

Plug-in industrial relay in basic design with power contacts, 2 changeover contacts, test button, status LED, mechanical switch position indicator, polarity A1+, A2-, input voltage: 110 V DC

ECOR-2-BSC2/4X21 - Relay base

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REL-IR-BL/L-125DC/2X21 - Single relay

1109553

https://www.phoenixcontact.com/us/products/1109553

Plug-in industrial relay in basic design with power contacts, 2 changeover contacts, test button, status LED, mechanical switch position indicator, polarity A1+, A2-, input voltage: 125 V DC

REL-IR-BL/L-220DC/2X21 - Single relay

1109554

https://www.phoenixcontact.com/us/products/1109554

Plug-in industrial relay in basic design with power contacts, 2 changeover contacts, test button, status LED, mechanical switch position indicator, polarity A1+, A2-, input voltage: 220 V DC

ECOR-2-BSC2/4X21 - Relay base

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REL-IR-BL/L- 24AC/2X21 - Single relay

1109555

https://www.phoenixcontact.com/us/products/1109555

Plug-in industrial relay in basic design with power contacts, 2 changeover contacts, test button, status LED, mechanical switch position indicator, input voltage: 24 V AC

REL-IR-BL/L-115AC/2X21 - Single relay

1109556

https://www.phoenixcontact.com/us/products/1109556

Plug-in industrial relay in basic design with power contacts, 2 changeover contacts, test button, status LED, mechanical switch position indicator, input voltage: 115 V AC

Accessories

ECOR-2-BSC2/4X21 - 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^2, loop length: 90 mm, ferrule length: 8 mm, color: blue

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^2, loop length: 90 mm, ferrule length: 8 mm, color: black

ECOR-2-BSC2/4X21 - Relay base

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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^2, loop length: 90 mm, ferrule length: 8 mm, color: gray

LDP- 12- 24DC - Plug-in module

2833657

https://www.phoenixcontact.com/us/products/2833657

Plug-in module, with freewheeling diode and yellow LED, polarity: A1+, A2-, input voltage: 12 ... 24 V DC ±20 %

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DP-12-220 DC - Plug-in module

2907517

https://www.phoenixcontact.com/us/products/2907517

Plug-in module, with freewheeling diode, polarity: A1+, A2-, input voltage: 12 V DC ... 220 V DC ±20%

LV-120-230AC/110DC - Plug-in module

2833738

https://www.phoenixcontact.com/us/products/2833738

Plug-in module, with varistor and yellow LED, input voltage: 120 ... 230 V AC / 110 V DC ±20 %

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V-120-230UC - Plug-in module

2833880

https://www.phoenixcontact.com/us/products/2833880

Plug-in module, with varistor, input voltage: 120 ... 230 V AC/DC ±20 %

RC-120-230UC - Plug-in module

2833767

https://www.phoenixcontact.com/us/products/2833767

Plug-in module, with RC element, input voltage: 120 ... 230 V AC/DC ±20 %

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MP 2 - Marker labels

2833644

https://www.phoenixcontact.com/us/products/2833644

Equipment marker, labeling surface 9 x 25 mm

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