

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



1109547

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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

## Commercial Data

Item number	1109547
Packing unit	10 pc
Minimum order quantity	1 pc
Sales Key	CK6
Product Key	CK6193
GTIN	4063151021627
Weight per Piece (including packing)	30.55 g
Weight per Piece (excluding packing)	29.22 g
Customs tariff number	85364900
Country of origin	AT

## Technical Data

### Notes

Notes on operation	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
Notes on operation	The outputs are not suitable for switching different outer conductors.
Notes on operation	Do not use to separate SELV / PELV circuits from other circuits, because safe isolation is not guaranteed.

### Product properties

Product type	Single relay
Operating mode	100% operating factor
Mechanical service life	3x 10 <sup>7</sup> cycles

### Insulation characteristics

Insulation	Basic insulation
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### Insulation characteristics: Air clearances and creepage distances between coil and contact side

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

### Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	0.76 W
Test voltage (Winding/contact)	2.5 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact)
Test voltage (Changeover contact/changeover contact)	2.5 kV <sub>rms</sub> (50 Hz, 1 min., changeover contact/changeover contact)

### Air clearances and creepage distances between coil and contact side

Rated insulation voltage	250 V AC
Rated surge voltage	5 kV

### Input data

#### Coil side

Nominal input voltage U <sub>N</sub>	12 V DC
Input voltage range	9.6 V DC ... 20.4 V DC (20 °C)
Typical input current at U <sub>N</sub>	63 mA
Typical response time	15 ms
Typical release time	10 ms
Coil voltage	12 V DC
Status display	Yellow LED
Coil resistance	192 Ω ±10 %

### Output data

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## Switching

Contact type	2 changeover contacts
Type of switch contact	Single contact
Drive and function	monostable
Drive (polarity)	polarized
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (10 mA)
Limiting continuous current	12 A
Maximum inrush current	24 A (20 ms, N/O contacts)
Min. switching current	10 mA (12 V)
Interrupting rating (ohmic load) max.	288 W (24 V DC) 130 W (48 V DC) 90 W (60 V DC) 66 W (110 V DC) 88 W (220 V DC) 3000 VA (250 V AC)
Switching capacity min.	120 mW

## Connection data

Connection method	Plug-in connection
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## Dimensions

Width	22.5 mm
Height	28 mm
Depth	35.5 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	RT II
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Altitude	≤ 2000 m

## Standards and regulations

### Air clearances and creepage distances between coil and contact side

Standards/regulations	EN 61810-1
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## Mounting

Mounting type	Plug-in mounting
Assembly instructions	in rows with zero spacing
Mounting position	any

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