

Relay Module - DEK-REL-G24/21 - 2964500

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Relay terminal block, with soldered-in miniature power relay, contacts (AgSnO): medium to large loads, 1 PDT, input voltage 24 V DC, for assembly on NS 35/7.5, terminal width 6.2 mm

Why buy this product

- ✓ Less wiring effort, thanks to the use of EB-DIK insertion bridges
- ✓ Just 6.2 mm wide
- ✓ Cadmium-free relay contacts
- ✓ Less storage, since PDT, N/O or N/C contacts can be wired
- ✓ High switching power of 250 V AC/6 A
- ✓ Safe isolation according to DIN EN 50178 (VDE 0160)
- ✓ Relay housing with IP67 protection
- ✓ LED for indicating the switching state
- ✓ 4 kV electrical isolation between input and output



Key Commercial Data

Packing unit	10 STK
GTIN	 4 017918 117733
GTIN	4017918117733
Weight per Piece (excluding packing)	24.100 g
Custom tariff number	85364190
Country of origin	China

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	6.2 mm
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Relay Module - DEK-REL-G24/21 - 2964500

Technical data

Dimensions

Height	80 mm
Depth	56 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Coil side

Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	0.8 ... 1.1
Typical input current at U_N	9 mA
Typical response time	8 ms
Typical release time	5 ms
Protective circuit	Reverse polarity protection Polarity protection diode
	Free-wheeling diode Damping diode
Operating voltage display	Yellow LED
Power dissipation for nominal condition	0.22 W

Contact side

Contact type	1 PDT
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Min. switching current	10 mA
Maximum inrush current	6 A
Limiting continuous current	6 A
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)

General

Test voltage relay winding/relay contact	4 kV AC (50 Hz, 1 min.)
Operating mode	100% operating factor
Mechanical service life	Approx. 10^7 cycles
Mounting position	any
Assembly instructions	In rows with zero spacing

Connection data input side

Connection name	Coil side
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Relay Module - DEK-REL-G24/21 - 2964500

Technical data

Connection data input side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.2 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 14

Connection data output side

Connection name	Contact side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.2 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 14

Standards and Regulations

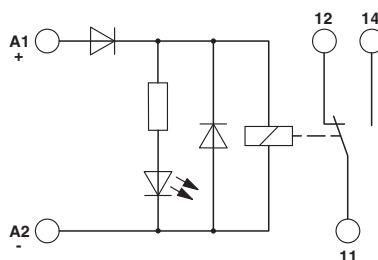
Connection in acc. with standard	CUL
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated insulation voltage	250 V
Rated surge voltage/insulation	6 kV (safe isolation: control side / contact side)
Degree of pollution	2
Overvoltage category	III

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Circuit diagram



Relay Module - DEK-REL-G24/21 - 2964500

Classifications

eCl@ss

eCl@ss 5.0	27371601
eCl@ss 5.1	27371601
eCl@ss 6.0	27371601
eCl@ss 7.0	27371601
eCl@ss 8.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 2.0	EC001437
ETIM 3.0	EC001437
ETIM 4.0	EC001437
ETIM 5.0	EC001437
ETIM 6.0	EC001437

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39122334

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
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Relay Module - DEK-REL-G24/21 - 2964500

Approvals

EAC		EAC-Zulassung
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EAC		7500651.22.01.00244
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cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm
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Accessories

Accessories

Insertion bridge

Insertion bridge - EB 2- DIK RD - 2716693



Insertion bridge, Pitch: 6.15 mm, Number of positions: 2, Color: red

Insertion bridge - EB 3- DIK RD - 2716745



Insertion bridge, Pitch: 6.15 mm, Number of positions: 3, Color: red

Insertion bridge - EB 4- DIK RD - 2716758



Insertion bridge, Pitch: 6.15 mm, Number of positions: 4, Color: red

Relay Module - DEK-REL-G24/21 - 2964500

Accessories

Insertion bridge - EB 5- DIK RD - 2716761



Insertion bridge, Pitch: 6.15 mm, Number of positions: 5, Color: red

Insertion bridge - EB 10- DIK RD - 2716774



Insertion bridge, Pitch: 6.15 mm, Number of positions: 10, Color: red

Insertion bridge - EB 2- DIK BU - 2716648



Insertion bridge, Pitch: 6.15 mm, Number of positions: 2, Color: blue

Insertion bridge - EB 3- DIK BU - 2716651



Insertion bridge, Pitch: 6.15 mm, Number of positions: 3, Color: blue

Insertion bridge - EB 4- DIK BU - 2716664



Insertion bridge, Pitch: 6.15 mm, Number of positions: 4, Color: blue

Relay Module - DEK-REL-G24/21 - 2964500

Accessories

Insertion bridge - EB 5- DIK BU - 2716677



Insertion bridge, Pitch: 6.15 mm, Number of positions: 5, Color: blue

Insertion bridge - EB 10- DIK BU - 2716680



Insertion bridge, Pitch: 6.15 mm, Number of positions: 10, Color: blue

Insertion bridge - EB 80- DIK BU - 2715940



Insertion bridge, Pitch: 6.2 mm, Number of positions: 80, Color: blue

Insertion bridge - EB 80- DIK RD - 2715953



Insertion bridge, Pitch: 6.2 mm, Number of positions: 80, Color: red

Insertion bridge - EB 80- DIK WH - 2715788



Insertion bridge, Pitch: 6.15 mm, Number of positions: 80, Color: white

Labeled terminal marker

Relay Module - DEK-REL-G24/21 - 2964500

Accessories

Zack marker strip - ZB 6,LGS:FORTL.ZAHLEN - 1051016



Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

Partition plate

Separating plate - D-DEK 1,5 GN - 2716949



Cover for setting the end of a terminal row, color: green

Sensor/actuator terminal block

Sensor/actuator terminal block - DIKD 1,5 - 2715979



Sensor/actuator terminal block, Connection type: Screw connection, Cross section: 0.2 mm² - 4 mm², AWG: 24 - 12, Width: 6.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

Terminal marking

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

Zack marker strip - ZB 6/WH-100:UNBEDRUCKT - 5060935



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

