

DEK-REL- 24/1/S - Relay module



2964131
<https://www.phoenixcontact.com/pc/products/2964131>

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 terminal block, with soldered-in miniature relays, contact (AgNi+Au): small to medium loads, 1 N/O contact, input voltage 24 V AC/DC, with integrated "manual", "0", "automatic" switch, for assembly on NS 35/7.5, terminal width 6.2 mm

Your advantages

- Just 6.2 mm wide
- Safe isolation between coil and contact side
- Increased contact reliability thanks to double contact
- Max. switching current of 5 A

Commercial data

Item number	2964131
Packing unit	10 pc
Minimum order quantity	1 pc
Product key	DK61A2
GTIN	4017918101015
Weight per piece (including packing)	23.15 g
Weight per piece (excluding packing)	20 g
Customs tariff number	85364190
Country of origin	CN

DEK-REL- 24/1/S - Relay module



2964131

<https://www.phoenixcontact.com/pc/products/2964131>

Technical data

Notes

Note on application	Use of EB 80-DIK... bridges in the DEK terminal blocks: Absorption of humidity from the ambient air as well as an unfavorable tolerance between a larger number of DEK terminal blocks and the EB 80-DIK... bridge may cause (minor) expansion of the DEK housing. When the EB 80-DIK... bridges are used, therefore, it is recommended that these be disconnected after about 10 to 12 DEK terminal blocks and a wire bridge to the next DEK terminal block be inserted in their place.
---------------------	---

Product properties

Product type	Relay Module
Product family	DEK
Application	Palm switch
Operating mode	100% operating factor
Mechanical service life	approx. 2×10^7 cycles

Insulation characteristics

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	12.09.2025
------------------------------	------------

Electrical properties

Maximum power dissipation for nominal condition	0.16 W
Test voltage (Winding/contact)	2 kV AC (50 Hz, 1 min., winding/contact)

Input data

Coil side

Nominal input voltage U_N	24 V AC/DC
Input voltage range	19.2 V AC/DC ... 26.4 V AC/DC (20 °C)
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U_N	6.5 mA
Typical response time	5 ms
Typical release time	15 ms
Protective circuit	Bridge rectifier; Bridge rectifier
Operating voltage display	Yellow LED

Output data

Switching

Contact switching type	1 N/O contact
------------------------	---------------

DEK-REL- 24/1/S - Relay module



2964131

<https://www.phoenixcontact.com/pc/products/2964131>

Type of switch contact	Double contact
Contact material	AgNi, hard gold-plated
Maximum switching voltage	250 V AC
	125 V DC
Minimum switching voltage	0.1 V
Limiting continuous current	3 A (5 A up to 35°C at 24 V DC)
Maximum inrush current	5 A
Min. switching current	1 mA
Interrupting rating (ohmic load) max.	72 W (at 24 V DC)
	60 W (at 48 V DC)
	50 W (at 60 V DC)
	50 W (at 110 V DC)
	750 VA (for 250 V AC)
	120 W (at 24 V DC - up to 35°)

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm² ... 2.5 mm²
Conductor cross-section flexible	0.2 mm² ... 2.5 mm²
Conductor cross-section AWG	24 ... 14
Tightening torque	0.4 Nm ... 0.5 Nm

Dimensions

Width	6.2 mm
Height	80 mm
Depth	61 mm

Material specifications

Color	green (RAL 6021)
-------	------------------

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

Standards/regulations	IEC 60947-5-1
-----------------------	---------------

Mounting

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

DEK-REL- 24/1/S - Relay module

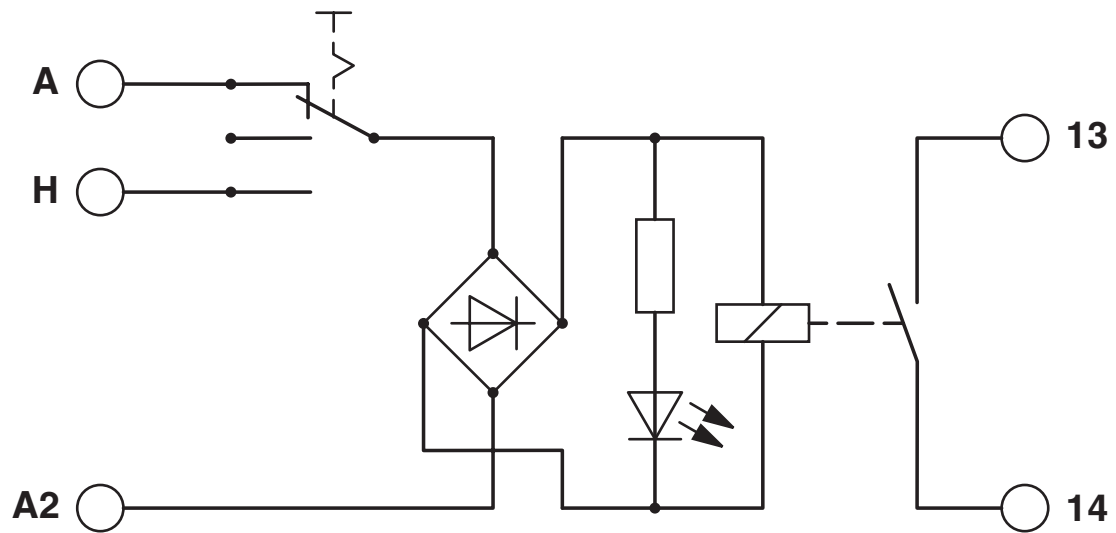
2964131

<https://www.phoenixcontact.com/pc/products/2964131>



Drawings

Circuit diagram



DEK-REL- 24/1/S - Relay module



2964131

<https://www.phoenixcontact.com/pc/products/2964131>

Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/2964131>



cUL Recognized

Approval ID: E238705



UL Recognized

Approval ID: E238705



EAC

Approval ID: RU*C-DE.*08.B.00010

DEK-REL- 24/1/S - Relay module

2964131

<https://www.phoenixcontact.com/pc/products/2964131>



Classifications

ECLASS

ECLASS-13.0	27371601
ECLASS-15.0	27371601

ETIM

ETIM 9.0	EC001437
----------	----------

UNSPSC

UNSPSC 21.0	39122300
-------------	----------

DEK-REL- 24/1/S - Relay module

2964131

<https://www.phoenixcontact.com/pc/products/2964131>



Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

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.)	Lead(CAS: 7439-92-1)
SCIP	86afe8f8-d6b6-4867-a521-ddd908583979

DEK-REL- 24/1/S - Relay module

2964131

<https://www.phoenixcontact.com/pc/products/2964131>



Accessories

i Note: Applying some accessories below might limit this product.

EB 2- DIK RD - Insertion bridge

2716693

<https://www.phoenixcontact.com/pc/products/2716693>



Insertion bridge, pitch: 6.15 mm, number of positions: 2, color: red

i Max. current carrying capacity: 26 A

EB 3- DIK RD - Insertion bridge

2716745

<https://www.phoenixcontact.com/pc/products/2716745>



Insertion bridge, pitch: 6.15 mm, number of positions: 3, color: red

i Max. current carrying capacity: 26 A

DEK-REL- 24/1/S - Relay module

2964131

<https://www.phoenixcontact.com/pc/products/2964131>



EB 4- DIK RD - Insertion bridge

2716758

<https://www.phoenixcontact.com/pc/products/2716758>



Insertion bridge, pitch: 6.15 mm, number of positions: 4, color: red

 Max. current carrying capacity: 26 A

EB 5- DIK RD - Insertion bridge

2716761

<https://www.phoenixcontact.com/pc/products/2716761>



Insertion bridge, pitch: 6.15 mm, number of positions: 5, color: red

 Max. current carrying capacity: 26 A

DEK-REL- 24/1/S - Relay module

2964131

<https://www.phoenixcontact.com/pc/products/2964131>



EB 10- DIK RD - Insertion bridge

2716774

<https://www.phoenixcontact.com/pc/products/2716774>



Insertion bridge, pitch: 6.15 mm, number of positions: 10, color: red

 Max. current carrying capacity: 26 A

EB 5- DIK BU - Insertion bridge

2716677

<https://www.phoenixcontact.com/pc/products/2716677>



Insertion bridge, pitch: 6.15 mm, number of positions: 5, color: blue

 Max. current carrying capacity: 26 A

DEK-REL- 24/1/S - Relay module

2964131

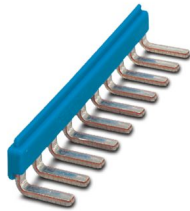
<https://www.phoenixcontact.com/pc/products/2964131>



EB 10- DIK BU - Insertion bridge

2716680

<https://www.phoenixcontact.com/pc/products/2716680>



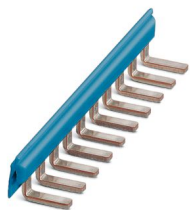
Insertion bridge, pitch: 6.15 mm, number of positions: 10, color: blue

 Max. current carrying capacity: 26 A

EB 80- DIK BU - Insertion bridge

2715940

<https://www.phoenixcontact.com/pc/products/2715940>



Insertion bridge, pitch: 6.2 mm, number of positions: 80, color: blue

 Max. current carrying capacity: 26 A

DEK-REL- 24/1/S - Relay module

2964131

<https://www.phoenixcontact.com/pc/products/2964131>



EB 80- DIK RD - Insertion bridge

2715953

<https://www.phoenixcontact.com/pc/products/2715953>

Insertion bridge, pitch: 6.2 mm, number of positions: 80, color: red



 Max. current carrying capacity: 26 A

D-DEK 1,5 GN - Separating plate

2716949

<https://www.phoenixcontact.com/pc/products/2716949>

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



DEK-REL- 24/1/S - Relay module

2964131

<https://www.phoenixcontact.com/pc/products/2964131>



ZB 6:UNBEDRUCKT - Zack marker strip

1051003

<https://www.phoenixcontact.com/pc/products/1051003>



Zack marker strip, Strip, white, unmarked, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 6.15 mm

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

1051016

<https://www.phoenixcontact.com/pc/products/1051016>



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 10, text field height: 10.5 mm, text field width: 6.15 mm

DEK-REL- 24/1/S - Relay module

2964131

<https://www.phoenixcontact.com/pc/products/2964131>



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

5060935

<https://www.phoenixcontact.com/pc/products/5060935>

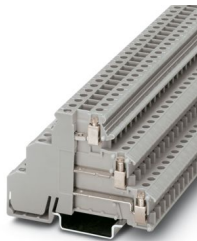


Zack marker strip, Strip, white, unmarked, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 1000, text field height: 10.5 mm, text field width: 6.15 mm

DIKD 1,5 - Initiator/actuator terminal block

2715979

<https://www.phoenixcontact.com/pc/products/2715979>



Initiator/actuator terminal block, nom. voltage: 250 V, nominal current: 24 A, connection method: Screw connection, 1st, 2nd and 3rd level, Rated cross section: 2.5 mm², cross section: 0.2 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com