



**Automatización Eléctrica**  
Especialistas en Automatización

At the end of this document you will find links to products related to this catalog. You can go directly to our shop by clicking HERE. [HERE](#)

## Relay Module - DEK-REL- 5/O/1 - 2941170

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Relay terminal block, with soldered-in miniature relays, contact (AgNi+Au): small to medium loads, 1 N/O contact, input voltage 5 V AC/DC, for assembly on NS 35/7.5, terminal width 6.2 mm, design rotated

The illustration shows the version  
DEK-REL- 24/O/1

### Why buy this product

- Reduced costs as N terminal block is no longer required
- Up to 73% more space
- Wiring reduced to a minimum
- Integrated input circuit
- 2-layer contact with hard gold plating for universal applications from 1 mA to 5 A continuous current
- 2 kVrms electrical isolation between input and output



### Key Commercial Data

Packing unit	10 STK
GTIN	 4 017918 080327

### Technical data

#### Note

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

#### Dimensions

Width	6.2 mm
Height	80 mm
Depth	56 mm

#### Ambient conditions

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

# Relay Module - DEK-REL- 5/O/1 - 2941170

## Technical data

### Coil side

Nominal input voltage $U_N$	5 V AC/DC
Input voltage range in reference to $U_N$	0.9 ... 1.1
Typical input current at $U_N$	23 mA
Typical response time	8 ms
Typical release time	15 ms
Protective circuit	Bridge rectifier Bridge rectifier
Operating voltage display	Yellow LED
Power dissipation for nominal condition	0.12 W

### Contact side

Contact type	1 N/O contact (double contact)
Contact material	AgNi, hard gold-plated
Maximum switching voltage	250 V AC
	125 V DC
Minimum switching voltage	0.1 V
Min. switching current	1 mA
Maximum inrush current	5 A
Limiting continuous current	3 A (5 A up to 35°C at 24 V DC)
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°)

### General

Test voltage relay winding/relay contact	2 kV AC (50 Hz, 1 min.)
Operating mode	100% operating factor
Mechanical service life	Approx. $2 \times 10^7$ cycles
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage/insulation	Basic insulation
Degree of pollution	2
Overvoltage category	III
Mounting position	any
Assembly instructions	In rows with zero spacing

### Connection data input side

Connection name	Coil side
Connection method	Screw connection
Stripping length	8 mm

# Relay Module - DEK-REL- 5/O/1 - 2941170

## Technical data

### Connection data input side

Screw thread	M3
Conductor cross section solid	0.2 mm² ... 2.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
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 mm² ... 2.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 14

### Standards and Regulations

Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage/insulation	Basic insulation
Degree of pollution	2
Overvoltage category	III

## Classifications

### eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001
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

### UNSPSC

UNSPSC 6.01	30211916
-------------	----------

# Relay Module - DEK-REL- 5/O/1 - 2941170

## Classifications

### UNSPSC

UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39121515

## Approvals

### Approvals

Approvals

EAC / EAC

Ex Approvals

Approvals submitted

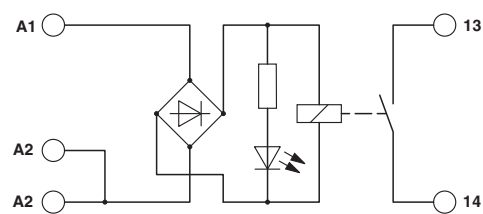
### Approval details

EAC
-----

EAC
-----

## Drawings

Circuit diagram



Phoenix Contact 2016 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>

Below is a list of articles with direct links to our shop Electric Automation Network where you can see:

- Quote per purchase volume in real time.
- Online documentation and datasheets of all products.
- Estimated delivery time enquiry in real time.
- Logistics systems for the shipment of materials almost anywhere in the world.
- Purchasing management, order record and tracking of shipments.

To access the product, [click on the green button.](#)

Product	Code	Reference	Product link
Relay terminal block, with soldered-in miniature relays, contact (AgNi+Au): small to medium loads, 1 N/O contact, input voltage 5 V AC/DC, for assembly on NS 35/7.5, terminal width 6.2 mm, design rotated	2941170	DEK-REL- 5/ O/1	<a href="#">Buy on EAN</a>