

DEK-OE- 48DC/ 48DC/100/T - Solid-state relay terminal block

2940281

<https://www.phoenixcontact.com/us/products/2940281>

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Input solid-state relay terminal block, input: 48 V DC, output: 3 - 48 V DC/100 mA, with isolating plug in output, terminal block width: 6.2 mm

Commercial data

Item number	2940281
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK61D1
GTIN	4017918079987
Weight per piece (including packing)	23.37 g
Weight per piece (excluding packing)	22.97 g
Customs tariff number	85364190
Country of origin	CN

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Technical data

Notes

Order information:	The housing is open on one side. The appropriate cover is D-DEK 1,5 GN (2716949).
Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area

Product properties

Product type	Solid-state relay module
Product family	DEK
Application	Input function
Operating mode	100% operating factor
Insulation characteristics	
Overvoltage category	III
Pollution degree	2
Data management status	
Date of last data management	15.09.2025

Electrical properties

Test voltage (Input/output)	2.5 kV AC (Input/output)
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Input data

Nominal input voltage U_N	48 V DC
Input voltage range in reference to U_N	0.9 ... 1.1
Input voltage range	43.2 V DC ... 52.8 V DC
Switching threshold "0" signal, voltage	≤ 19 V
Switching threshold "1" signal voltage	≥ 40 V
Typical input current at U_N	5 mA
Typical response time	40 μ s (delay)
Typical turn-off time	40 μ s (delay)
Status display	LED (yellow)
Protective circuit	Reverse polarity protection; Bridge rectifier
Transmission frequency	30 Hz

Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
Output voltage range	3 V DC ... 48 V DC
Limiting continuous current	100 mA
Voltage drop at max. limiting continuous current	≤ 0.9 V
Output circuit	2-conductor, floating

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Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	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
Tightening torque	0.5 Nm

Dimensions

Width	6.2 mm
Height	80 mm
Depth	56 mm

Material specifications

Color	green (RAL 6021)
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Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Standards and regulations

Standards/regulations	IEC 60664
	IEC 60664A
	DIN VDE 0110

Mounting

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

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Environmental product compliance

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.
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EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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