

DEK-OE- 24DC/ 24DC/100KHZ - Solid-state relay terminal block



2964283

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Input solid-state relay, transmission frequency: 100 kHz, with LED and protective circuit in input and output circuits, input: 24 V DC, output: 4 - 30 V DC/50 mA

Your advantages

- With capacitor on the input side for interference suppression
- Limit frequency of up to 100 kHz
- Includes signal inputs on PLC counter boards

Commercial Data

Item number	2964283
Packing unit	10 pc
Minimum order quantity	1 pc
Sales Key	CK6
Product Key	CK61D1
Catalog Page	Page 452 (C-5-2019)
GTIN	4017918107413
Weight per Piece (including packing)	21.6 g
Weight per Piece (excluding packing)	18.172 g
Customs tariff number	85364190
Country of origin	CN

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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.
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Product properties

Product type	Solid-state relay module
Product family	DEK
Application	100 kHz input optocoupler
Operating mode	100% operating factor

Insulation characteristics

Insulation	Basic insulation
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Insulation characteristics

Insulation	Basic insulation
Overvoltage category	II
Pollution degree	2

Electrical properties

Maximum power dissipation for nominal condition	3 mW
Test voltage (Input/output)	2.5 kV AC (Input/output)

Input data

Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	0.8 ... 1.2
Input voltage range	19.2 V DC ... 28.8 V DC
Switching threshold "0" signal in reference to U_N	≤ 0.4
Switching threshold "1" signal in reference to U_N	≥ 0.8
Typical input current at U_N	6 mA
Typical response time	1.5 μ s
Typical turn-off time	2 μ s
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection
Transmission frequency	100 kHz

Output data

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Contact type	1 N/O contact
Design of digital output	electronic
Output voltage range	4 V DC ... 30 V DC
Limiting continuous current	50 mA
Quiescent current	4.3 mA
Voltage drop at max. limiting continuous current	≤ 0.5 V DC
Output circuit	3-conductor, ground-referenced
Protective circuit	Surge protection; Suppressor diode

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

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 60947-5-1
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Mounting

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

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PHOENIX CONTACT (I) Pvt. Ltd.

A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420

info@phoenixcontact.co.in