

2964270

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Input solid-state relay, transmission frequency: 100 kHz, with LED and protective circuit in input and output circuits, input: 5 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
- · Push/pull stage on output side
- · Includes signal inputs on PLC counter boards

Commercial data

Item number	2964270
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	DK61A1
Product key	DK61A1
Catalog page	Page 452 (C-5-2019)
GTIN	4017918107406
Weight per piece (including packing)	21.46 g
Weight per piece (excluding packing)	21.46 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
Overvoltage category	II
Pollution degree	2

Data management status

Date of last data management	19.03.2025

Electrical properties

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

Input data

Nominal input voltage U _N	5 V DC
Input voltage range in reference to U_N	0.8 1.2
Input voltage range	4 V DC 6 V DC
Switching threshold "0" signal in reference to \boldsymbol{U}_{N}	≤ 0.4
Switching threshold "1" signal in reference to $\mathbf{U}_{\mathbf{N}}$	≥ 0.8
Typical input current at U _N	7 mA
Typical response time	1.5 µs
Typical turn-off time	2 µs
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection
Transmission frequency	100 kHz

Output data

Contact switching type	1 N/O contact
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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
onnection data	
Connection method	Screw connection
Stripping length	8 mm

МЗ

24 ... 14

0.5 Nm

0.2 mm² ... 2.5 mm²

0.2 mm² ... 2.5 mm²

	Tightening torque
Dim	ensions

Screw thread

Conductor cross section rigid

Conductor cross section flexible

Conductor cross section AWG

Width	6.2 mm
Height	80 mm
Depth	56 mm

Material specifications

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 note	in rows with zero spacing
Mounting position	any

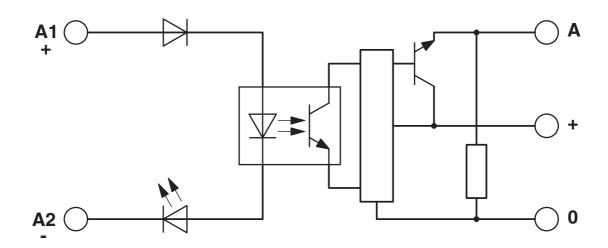


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Drawings

Circuit diagram





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Classifications

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	ECLASS-13.0	27371604
	E0EA00-10.0	2/3/1004
E	ГІМ	
	ETIM 9.0	EC001504
UI	NSPSC	
	UNSPSC 21.0	39122300



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	0322b25c-94e1-4255-b5ee-40a474c4bee6

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