

2964487

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Input solid-state relay terminal block, input: 12 V DC, output: 3 - 48 V DC/100 mA, terminal block width: 6.2 mm

### Your advantages

- EB-DIK insertion bridges
- · Actuator version available
- · Labeling and mounting with user-friendly modular terminal blocks
- Wear-free switching up to 48 V DC/100 mA
- · Integrated output protective circuit
- · Zero voltage switch at AC output
- · Integrated input circuit
- Electrical isolation between input and output at up to 2.5 kVrms
- Status indicator

#### Commercial data

Item number	2964487
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	C460
Product key	DK61A1
GTIN	4017918125141
Weight per piece (including packing)	20.57 g
Weight per piece (excluding packing)	20.5 g
Customs tariff number	85364190
Country of origin	CN



2964487

https://www.phoenixcontact.com/us/products/2964487

### 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	Output function
Operating mode	100% operating factor

#### Insulation characteristics: Standards/regulations

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

#### Data management status

Date of last data management	15.09.2025
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### Electrical properties

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

Nominal input voltage U <sub>N</sub>	12 V DC
Input voltage range in reference to $\mathbf{U}_{\mathbf{N}}$	0.8 1.2
Input voltage range	9.6 V DC 14.4 V DC
Switching threshold "0" signal in reference to $\boldsymbol{U}_{N}$	≤ 0.4
Switching threshold "1" signal in reference to $\boldsymbol{U}_{N}$	≥ 0.8
Typical input current at U <sub>N</sub>	11 mA
Typical response time	20 µs
Typical turn-off time	200 μs
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection
Transmission frequency	300 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



2964487

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Voltage drop at max. limiting continuous current	≤ 0.9 V
Output circuit	2-conductor floating, 3-conductor ground-referenced
Protective circuit	Reverse polarity protection; Polarity protection diode
	Freewheeling diode; Freewheeling diode
Output resistor	approx. 22 kΩ (for 3-conductor operation)

#### 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	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

Standards/regulations IEC 60947-5	i-1
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## Mounting

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

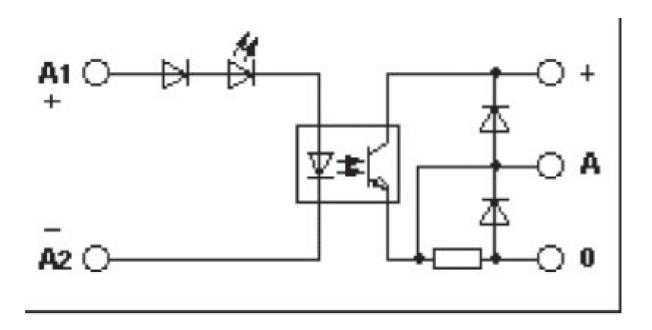


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## Drawings

Circuit diagram





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### **Approvals**

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EAC

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



2964487

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## Classifications

#### **ECLASS**

	ECLASS-13.0	27371604		
	ECLASS-15.0	27371604		
ETIM				
	ETIM 9.0	EC001504		
UNSPSC				
	UNSPSC 21.0	39122300		



2964487

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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	5d98f486-d740-455e-ab61-85b3d17efe31

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