

2964319

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Inverter module. The inverter module inverts the signals of ground switching n-p-n transistor outputs into plus switching p-n-p outputs, and vice versa.

### Your advantages

• The DEK-TR/INV inverter module inverts the signals of ground switching NPN transistor outputs into positive switching PNP outputs and vice versa

#### Commercial data

Item number	2964319
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	C460
Product key	DK61A3
GTIN	4017918176068
Weight per piece (including packing)	20.61 g
Weight per piece (excluding packing)	19.9 g
Customs tariff number	85365019
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.

#### Product properties

Product type	Solid-state relay module
Product family	DEK
Application	Inverter module
Insulation characteristics	
Overvoltage category	II
Pollution degree	2

#### Electrical properties

Maximum power dissipation for nominal condition	4.8 W
Supply	
Supply voltage range	20 V DC 30 V DC

#### Input data

Typical input current at U <sub>N</sub>	200 mA
Transmission frequency	15 kHz

#### NPN

Switching threshold "1" signal voltage	$< 5 \text{ V (at U}_{\text{V}} = 24 \text{ V}; < (\text{U}_{\text{V}} - 19 \text{ V}))$
Switching threshold "0" signal, voltage	> 15 V (at U <sub>V</sub> = 24 V; > (U <sub>V</sub> - 9 V))
Min. voltage input signal	-2 V
Max. voltage input signal	26 V (at U <sub>V</sub> = 24 V; U <sub>V</sub> + 2 V)

#### PNP

Switching threshold "1" signal voltage	> 19 V
Switching threshold "0" signal, voltage	< 9 V
Min. voltage input signal	-2 V
Max. voltage input signal	26 V (at U <sub>V</sub> = 24 V; U <sub>V</sub> + 2 V)

### Output data

Continuous load current	200 mA
Leakage current	< 1 mA
Residual voltage	<1V
Transmission frequency	15 kHz



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Contact switching type	1 N/O contact
Output nominal voltage	max. ± 26 V

#### Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm² 4 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 12

#### **Dimensions**

Width	6.2 mm
Height	80 mm
Depth	56 mm

### Material specifications

Color	green (RAL 6021)
Housing material	Polyamide PA non-reinforced

#### Environmental and real-life conditions

#### Ambient conditions

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

#### Standards and regulations

Standards/regulations	IEC 60947-5-1

### Mounting

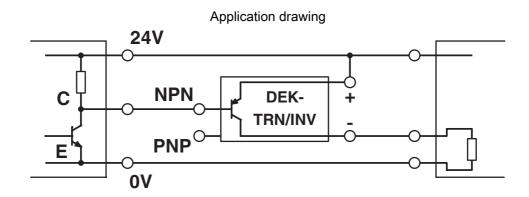
Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any



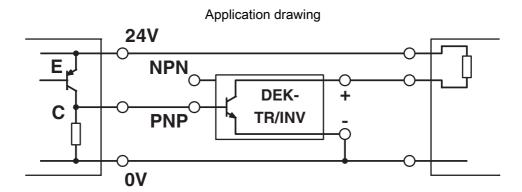
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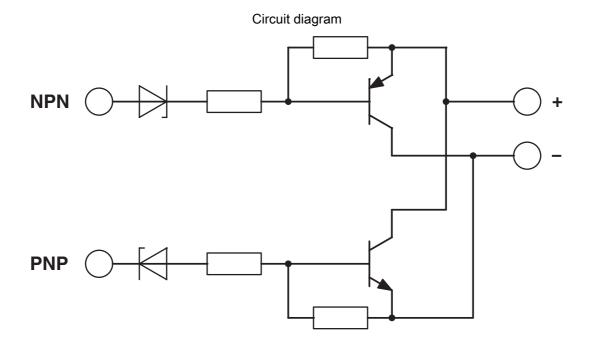


### Drawings



a = NPN output b = load







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### **Approvals**

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Approval ID: FILE E 238705



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EAC

Approval ID: RU C-DE.A\*30.B.01742



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### Classifications

UNSPSC 21.0

#### **ECLASS**

	ECLASS-13.0	27371604		
	ECLASS-15.0	27371604		
ETIM				
	ETIM 9.0	EC001504		
UN	ISPSC			

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### Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	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.)	No substance above 0.1 wt%

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