



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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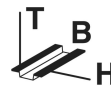
# DEK-TR/INV


Order No.: 2964319



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2964319>

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.



Commercial data	
GTIN (EAN)	
sales group	G042
Pack	10 pcs.
Customs tariff	85364190
Catalog page information	Page 143 (IF-2009)

#### Product notes

WEEE/RoHS-compliant since:  
05/16/2006



<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

### Technical data

Technical data	
Supply voltage range	20 V DC ... 30 V DC ( $U_V$ )
Continuous current	200 mA
Residual voltage drop	< 1 V

Leakage current	< 1 mA
Max. transmission frequency	15 kHz
<b>NPN input/PNP output</b>	
Switch-on threshold	< 5 V (at $U_V = 24 \text{ V}$ ; < ( $U_V - 19 \text{ V}$ ))
Switch-off threshold	> 15 V (at $U_V = 24 \text{ V}$ ; > ( $U_V - 9 \text{ V}$ ))
Min. limit values	-2 V
Max. limit values	26 V (at $U_V = 24 \text{ V}$ ; $U_V + 2 \text{ V}$ )
<b>PNP input/NPN output</b>	
Switch-on threshold	> 19 V
Switch-off threshold	< 9 V
Min. limit values	-2 V
Max. limit values	26 V (at $U_V = 24 \text{ V}$ ; $U_V + 2 \text{ V}$ )
<b>Connection data</b>	
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Type of connection	Screw connection
Stripping length	8 mm
Screw thread	M3
<b>General data</b>	
Width	6.2 mm
Height	80 mm
Depth	56 mm
Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Mounting position	Any
Assembly instructions	In rows with zero spacing
Standards/regulations	IEC 60664
	Basic insulation
Pollution degree	2

Surge voltage category	II
Color	green
Housing material	Polyamide PA non-reinforced

**Certificates / Approvals**



Certification CUL, GOST, UL

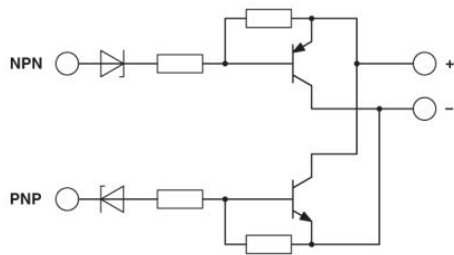
**Diagrams/Drawings**

Application drawing



a = NPN output  
 b = load

Circuit diagram



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