

# 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        |                               |
|-----------------------|-------------------------------|
| 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

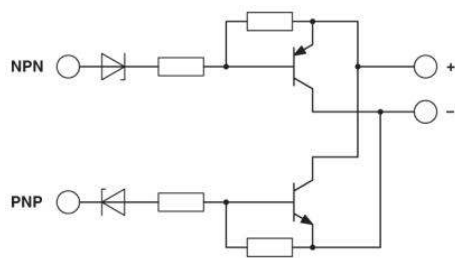
**Diagrams/Drawings**

Application drawing



a = NPN output  
 b = load

Circuit diagram



**Address**

PHOENIX CONTACT Deutschland GmbH  
Flachmarktstr. 8  
32825 Blomberg, Germany  
Phone +49 5235 3 12000  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.de>



© 2011 Phoenix Contact  
Technical modifications reserved;