PHŒNIX CONTACT

Switching amplifier - DEK-TR/INV - 2964319

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)

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

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 017918 176068
GTIN	4017918176068
Weight per Piece (excluding packing)	22.000 g
Custom tariff number	85364190
Country of origin	China

Technical data

Note

Type of note	Note on application
Note	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.

Dimensions

Width	6.2 mm

Switching amplifier - DEK-TR/INV - 2964319

Technical data

Dimensions

Height	80 mm
Depth	56 mm

Ambient conditions

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

NPN input/PNP output

Switch-on threshold	< 5 V (at U_V = 24 V; < (U_V - 19 V))
Switch-off threshold	> 15 V (at U_V = 24 V; > (U_V - 9 V))
Min. limit values	-2 V
Max. limit values	26 V (at U_V = 24 V; U_V + 2 V)

PNP input/NPN output

Switch-on threshold	> 19 V
Switch-off threshold	< 9 V
Min. limit values	-2 V
Max. limit values	26 V (at U_V = 24 V; U_V + 2 V)

General

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
Residual voltage	< 1 V
Transmission frequency	15 kHz
Color	green

Connection data

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

Standards and Regulations

Connection in acc. with standard	CUL
Standards/regulations	IEC 60664

PHŒNIX CONTACT

Switching amplifier - DEK-TR/INV - 2964319

Technical data

Standards and Regulations

Pollution degree	2
Overvoltage category	II

Environmental Product Compliance

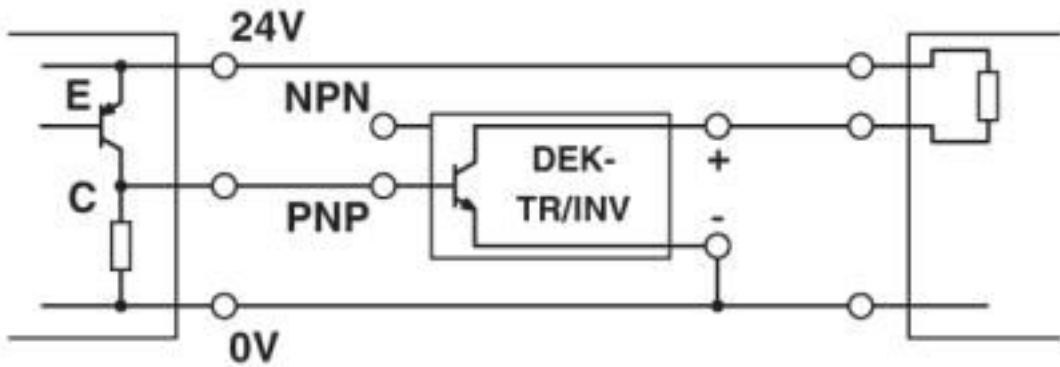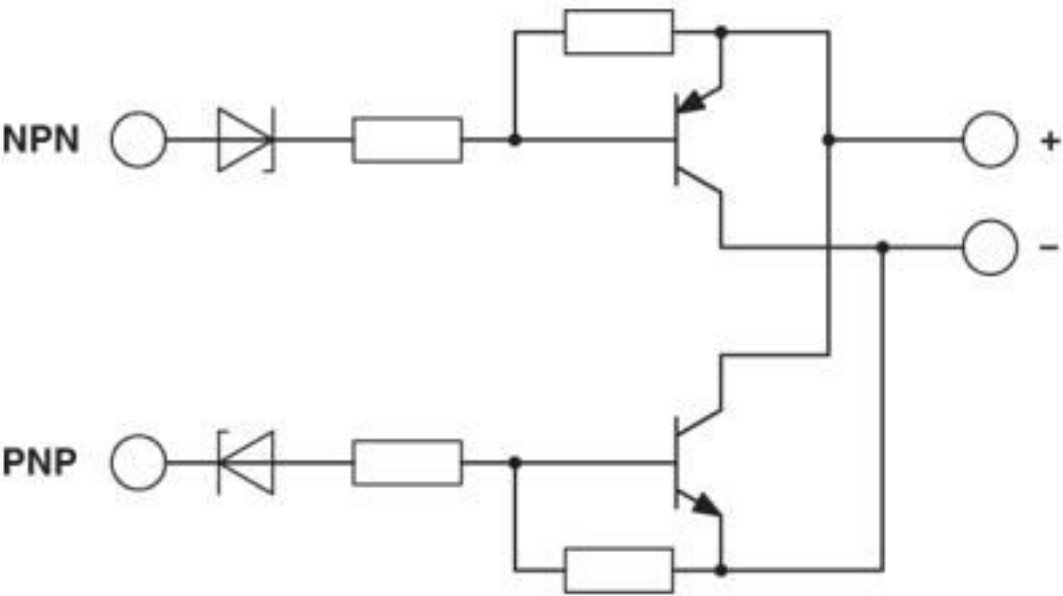| REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Application drawing
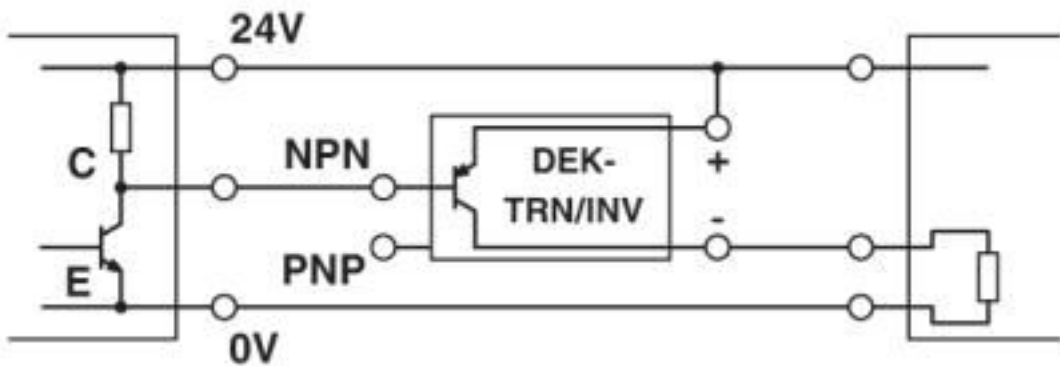
a = NPN output
b = load

Application drawing

PHŒNIX CONTACT

Switching amplifier - DEK-TR/INV - 2964319

Circuit diagram

Classifications

eCl@ss

eCl@ss 10.0.1	27371692
eCl@ss 4.0	27371100
eCl@ss 4.1	27371100
eCl@ss 5.0	27371600
eCl@ss 5.1	27371600
eCl@ss 6.0	27379200
eCl@ss 7.0	27379208
eCl@ss 8.0	27379208
eCl@ss 9.0	27371692

ETIM

ETIM 4.0	EC002586
ETIM 5.0	EC002586
ETIM 6.0	EC002586
ETIM 7.0	EC002586

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515

Switching amplifier - DEK-TR/INV - 2964319

Classifications

UNSPSC

UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39121515
UNSPSC 18.0	39122335
UNSPSC 19.0	39122335
UNSPSC 20.0	39122335
UNSPSC 21.0	39122335

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705

cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705

EAC		RU C-DE.A*30.B.01742

cULus Recognized		

PHŒNIX CONTACT

Switching amplifier - DEK-TR/INV - 2964319

Accessories

Accessories

Insertion bridge

Insertion bridge - EB 2- DIK RD - 2716693

Insertion bridge, pitch: 6.15 mm, number of positions: 2, color: red

Insertion bridge - EB 3- DIK RD - 2716745

Insertion bridge, pitch: 6.15 mm, number of positions: 3, color: red

Insertion bridge - EB 4- DIK RD - 2716758

Insertion bridge, pitch: 6.15 mm, number of positions: 4, color: red

Insertion bridge - EB 5- DIK RD - 2716761

Insertion bridge, pitch: 6.15 mm, number of positions: 5, color: red

Insertion bridge - EB 10- DIK RD - 2716774

Insertion bridge, pitch: 6.15 mm, number of positions: 10, color: red

PHŒNIX CONTACT

Switching amplifier - DEK-TR/INV - 2964319

Accessories

Insertion bridge - EB 2- DIK BU - 2716648

Insertion bridge, pitch: 6.15 mm, number of positions: 2, color: blue

---

Insertion bridge - EB 3- DIK BU - 2716651

Insertion bridge, pitch: 6.15 mm, number of positions: 3, color: blue

---

Insertion bridge - EB 4- DIK BU - 2716664

Insertion bridge, pitch: 6.15 mm, number of positions: 4, color: blue

---

Insertion bridge - EB 5- DIK BU - 2716677

Insertion bridge, pitch: 6.15 mm, number of positions: 5, color: blue

---

Insertion bridge - EB 10- DIK BU - 2716680

Insertion bridge, pitch: 6.15 mm, number of positions: 10, color: blue

---

PHŒNIX CONTACT

Switching amplifier - DEK-TR/INV - 2964319

Accessories

Insertion bridge - EB 80- DIK BU - 2715940

Insertion bridge, pitch: 6.2 mm, number of positions: 80, color: blue

Insertion bridge - EB 80- DIK RD - 2715953

Insertion bridge, pitch: 6.2 mm, number of positions: 80, color: red

Insertion bridge - EB 80- DIK WH - 2715788

Insertion bridge, pitch: 6.15 mm, number of positions: 80, color: white

Labeled terminal marker

Zack marker strip - ZB 6,LGS:FORTL.ZAHLEN - 1051016

Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

Partition plate

Separating plate - D-DEK 1,5 GN - 2716949

Cover for setting the end of a terminal row, color: green

PHŒNIX CONTACT

Switching amplifier - DEK-TR/INV - 2964319

Accessories

Sensor/actuator terminal block

Sensor/actuator terminal block - DIKD 1,5 - 2715979

Sensor/actuator terminal block, connection method: Screw connection, cross section: 0.2 mm² - 4 mm², AWG: 24 - 12, width: 6.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

Terminal marking

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003

Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

Zack marker strip - ZB 6/WH-100:UNBEDRUCKT - 5060935

Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10