

EIK1-SVN-24P - Solid-state relay module



2940799
<https://www.phoenixcontact.com/gb/products/2940799>

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Switching amplifier electronic terminal block, for inductive proximity sensors acc. to NAMUR, with light indicators for sensor signal and faults

Your advantages

- Bridging and labeling with standard terminal block accessories
- Error indication via LED
- Monitoring of initiator side for short circuits or wire breaks
- Status indication (high signal) via green LED
- Suitable resistance circuit to enable monitoring of mechanical switches
- 24 V/50 mA digital output

Commercial data

Item number	2940799
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CK6153
Product key	CK6153
Catalog page	Page 454 (C-5-2019)
GTIN	4017918080242
Weight per piece (including packing)	22.17 g
Weight per piece (excluding packing)	21.1 g
Customs tariff number	85365019
Country of origin	CN

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2940799

<https://www.phoenixcontact.com/gb/products/2940799>

Technical data

Notes

General	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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Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Product properties

Product type	Solid-state relay module
Product family	DEK
Application	NAMUR proximity sensors

Insulation characteristics: Air clearances and creepage distances

Overvoltage category	III
Pollution degree	2

Input data

Control circuit

Nominal input voltage U_N	8.2 V DC $\pm 10\%$
Error indication	visual short-circuit and wire break control with LED (red)
Protective circuit	12 V Zener diode; 12 V Zener diode
Transmission frequency	1 kHz
Switching point	≥ 2.1 mA (In conductive state) ≤ 1.2 mA (In blocking state) 6.3 mA ... 10 mA (in the event of a short-circuit) 0 mA ... 0.35 mA (In the event of a wire break)
Switching hysteresis	approx. 0.2 mA
Internal resistance	approx. 1 k Ω

Output data

Designation	Signal output
Contact switching type	1 N/O contact
Design of digital output	electronic
Output nominal voltage	≤ 100 mV (In conductive state) $U_{VN} - U_{Ri}$; in blocking state
Limiting continuous current	50 mA
Voltage drop at max. limiting continuous current	≤ 1.5 V (U_R)

EIK1-SVN-24P - Solid-state relay module



2940799

<https://www.phoenixcontact.com/gb/products/2940799>

Protective circuit	36 V Zener diode as free-wheeling diode; 36 V Zener diode as free-wheeling diode
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Connection data

Input side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 12
Tightening torque	0.5 Nm

Output side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 12
Tightening torque	0.5 Nm

Dimensions

Width	6.2 mm
Height	80 mm
Depth	56 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 50 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C

Standards and regulations

Air clearances and creepage distances

Standards/regulations	IEC 60664
	EN 61000-6-2
	EN 61000-6-4

Mounting

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

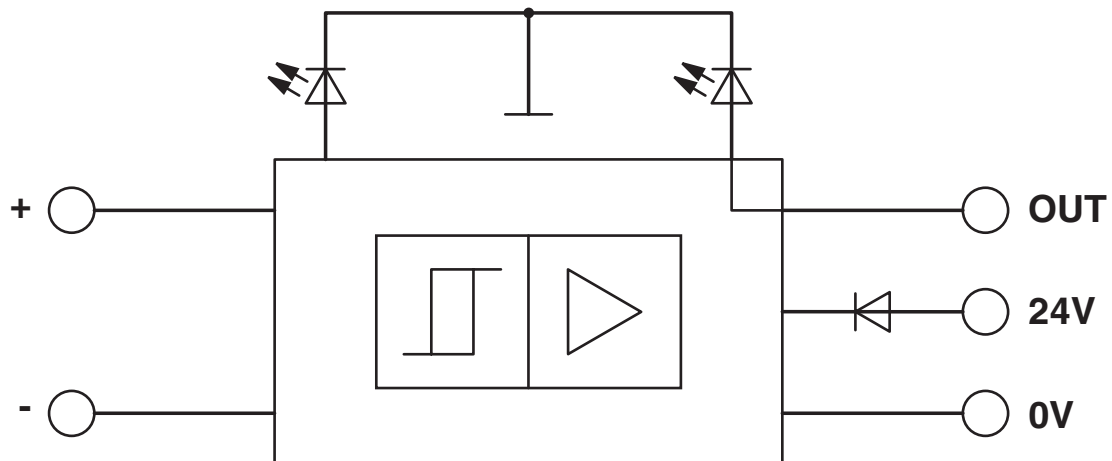
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2940799

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Drawings

Circuit diagram

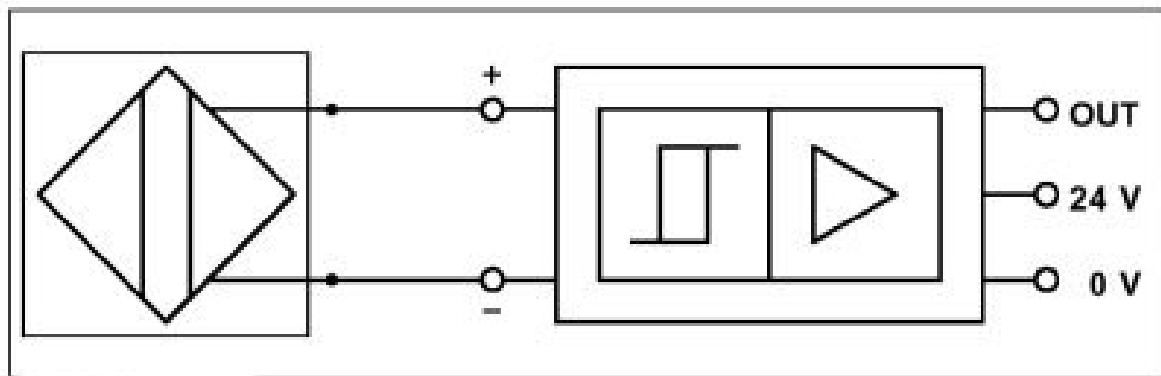


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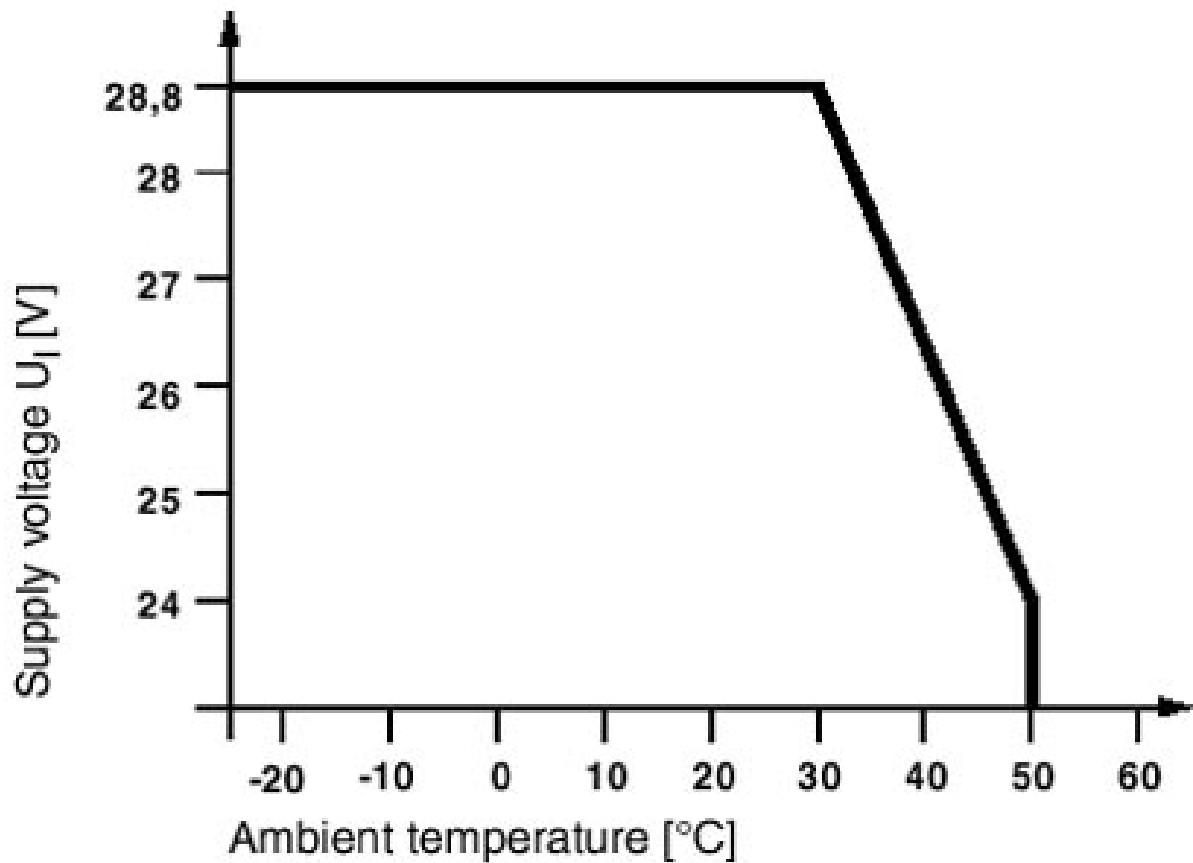
<https://www.phoenixcontact.com/gb/products/2940799>

Application drawing



NAMUR initiator

Diagram

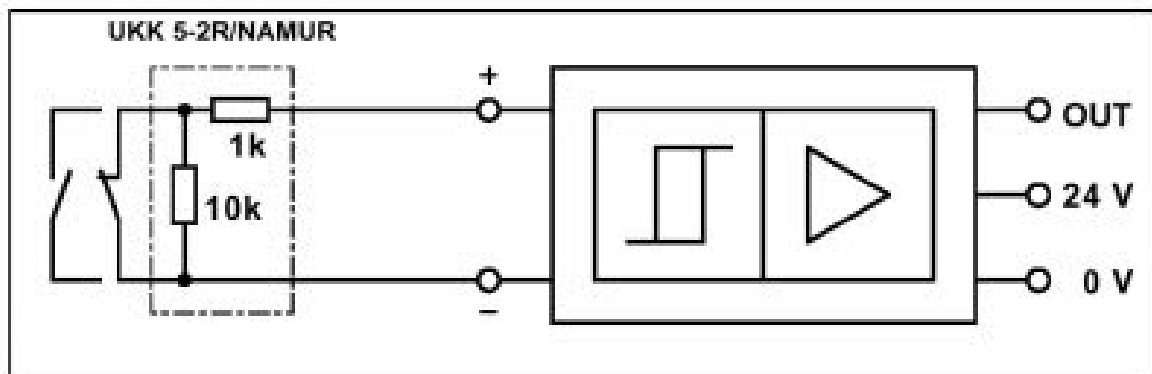


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Application drawing



Limit switch

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Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/2940799>



EAC

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

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Classifications

ECLASS

ECLASS-11.0	27371604
ECLASS-12.0	27371604
ECLASS-13.0	27371604

ETIM

ETIM 9.0	EC001504
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UNSPSC

UNSPSC 21.0	39122300
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
	Hexahydromethylphthalic anhydride
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

i Note: Applying some accessories below might limit this product.

EB 2- DIK RD - Insertion bridge

2716693

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

i Max. current carrying capacity: 26 A

EB 3- DIK RD - Insertion bridge

2716745

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

i Max. current carrying capacity: 26 A

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EB 4- DIK RD - Insertion bridge

2716758

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

 Max. current carrying capacity: 26 A

EB 5- DIK RD - Insertion bridge

2716761

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

 Max. current carrying capacity: 26 A

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EB 10- DIK RD - Insertion bridge

2716774

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

 Max. current carrying capacity: 26 A


EB 80- DIK RD - Insertion bridge

2715953

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

 Max. current carrying capacity: 26 A

EIK1-SVN-24P - Solid-state relay module



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EB 5- DIK BU - Insertion bridge

2716677

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



 Max. current carrying capacity: 26 A

EB 10- DIK BU - Insertion bridge

2716680

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



 Max. current carrying capacity: 26 A

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EB 80- DIK BU - Insertion bridge

2715940

<https://www.phoenixcontact.com/gb/products/2715940>



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

 Max. current carrying capacity: 26 A

D-DEK 1,5 GN - Separating plate

2716949

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

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ZB 6:UNBEDRUCKT - Zack marker strip

1051003

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

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

1051016

<https://www.phoenixcontact.com/gb/products/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: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

EIK1-SVN-24P - Solid-state relay module

2940799

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

5060935

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Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 1000

DIKD 1,5 - Initiator/actuator terminal block

2715979

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Initiator/actuator terminal block, nom. voltage: 250 V, nominal current: 24 A, connection method: Screw connection, 1st, 2nd and 3rd level, Rated cross section: 2.5 mm², cross section: 0.2 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

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