

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



2940799

<https://www.phoenixcontact.com/us/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	C460
Product key	DK61A3
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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## 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.
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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

#### Data management status

Date of last data management	01.04.2026
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### 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	$\geq 2.1$ mA (In conductive state) $\leq 1.2$ 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 $\Omega$

### Output data

Designation	Signal output
Contact switching type	1 N/O contact
Design of digital output	electronic
Output nominal voltage	$\leq 100$ mV (In conductive state) $U_{VN} - U_{Ri}$ ; in blocking state
Limiting continuous current	50 mA
Voltage drop at max. limiting continuous current	$\leq 1.5$ V ( $U_R$ )
Protective circuit	36 V Zener diode as free-wheeling diode; 36 V Zener diode as

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free-wheeling diode

## Connection data

### Input side

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

## Dimensions

### Item 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 note	in rows with zero spacing
Mounting position	any

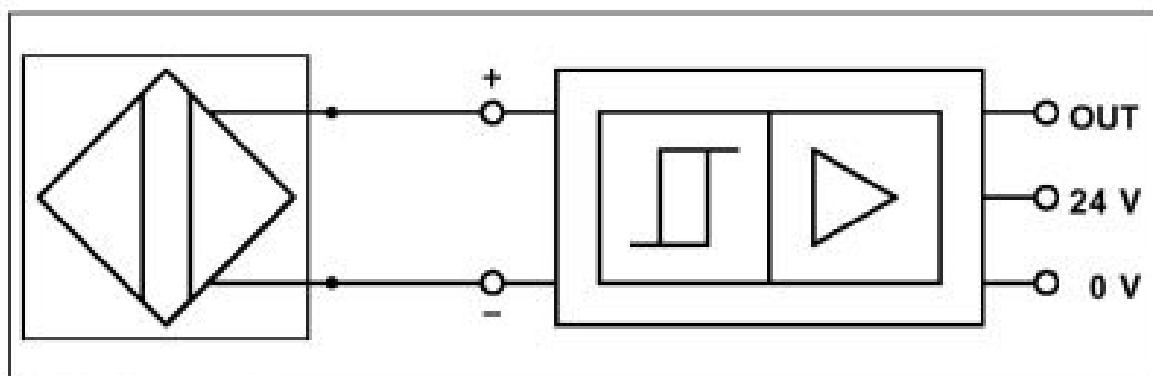
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## Drawings

### Application drawing



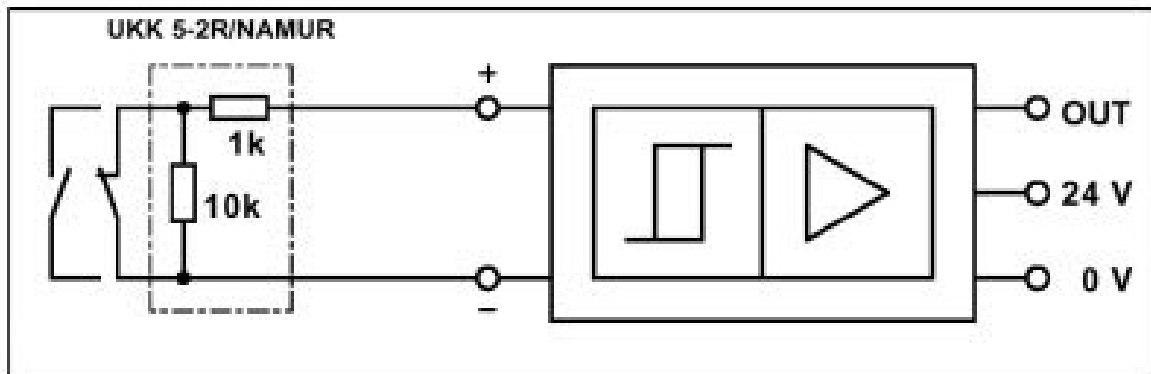
NAMUR initiator

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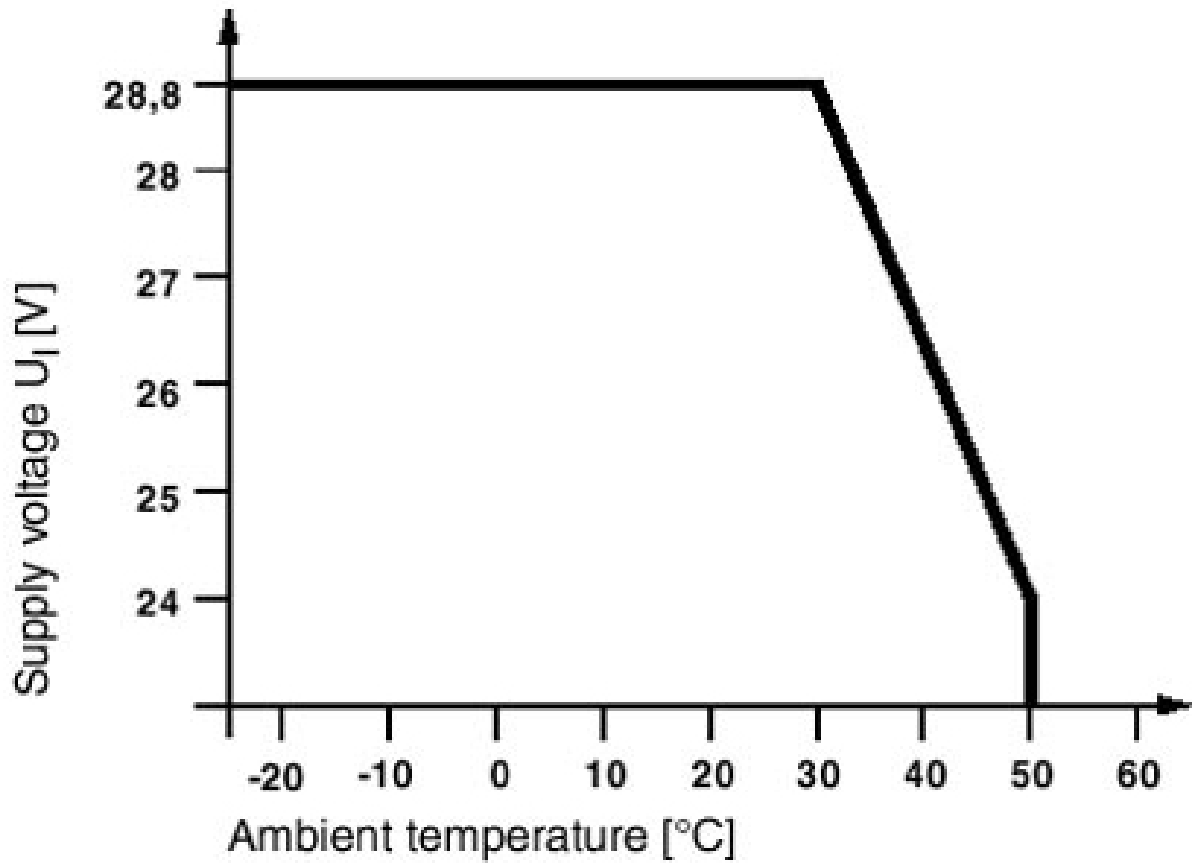
<https://www.phoenixcontact.com/us/products/2940799>

Application drawing



Limit switch

Diagram



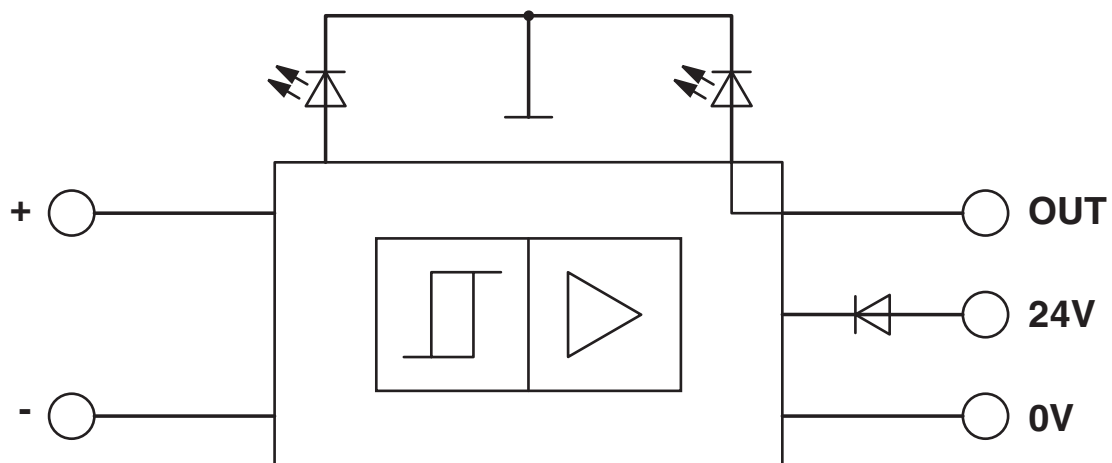
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Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0	27371604
ECLASS-15.0	27371604

### ETIM

ETIM 10.0	EC001504
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### UNSPSC

UNSPSC 21.0	39122300
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### 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.)	Lead(CAS: 7439-92-1)
SCIP	7292917c-6a09-4aa5-afdc-545bf23216fa

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