

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



2940799

<https://www.phoenixcontact.com/in/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	CK6
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	85364190
Country of origin	CN

## 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
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	$\geq 2.1$ 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 type	1 N/O contact
Design of digital output	electronic
Output nominal voltage	$\leq 100$ mV (In conductive state) $U_{VN} - U_R$ ; 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 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 <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

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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