

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

### Why buy this product

- 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



### Key Commercial Data

Packing unit	10 STK
GTIN	 4 017918 080242
GTIN	4017918080242

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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#### Dimensions

Width	6.2 mm
Height	80 mm
Depth	56 mm

#### Ambient conditions

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

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## Technical data

### Input data

Designation	Supply
Input voltage range	18.5 V DC ... 28.8 V DC ( $U_{VN}$ , see derating curve)
Typical input current at $U_N$	70 mA
Max. current consumption	70 mA (at 50 mA output current)
Operating voltage display	Green LED
Type of protection	Reverse polarity protection
Protective circuit/component	Polarity protection diode
Transmission frequency	1 kHz
Designation	Control circuit
Nominal input voltage $U_N$	8.2 V DC $\pm 10\%$
Indication	visual short-circuit and wire break control with LED (red)
Type of protection	12 V Zener diode
Protective circuit/component	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
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 ( $U_R$ )
Type of protection	36 V Zener diode as free-wheeling diode
Protective circuit/component	36 V Zener diode as free-wheeling diode

### Connection data, input side

Connection name	Input side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	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
Torque	0.5 Nm

### Connection data, output side

Connection name	Output side
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Torque	0.5 Nm

### General

Mounting position	any
Assembly instructions	In rows with zero spacing
Designation	Air clearances and creepage distances
Standards/regulations	IEC 60664
	EN 61000-6-2
	EN 61000-6-4
Degree of pollution	2
Overvoltage category	III

### Standards and Regulations

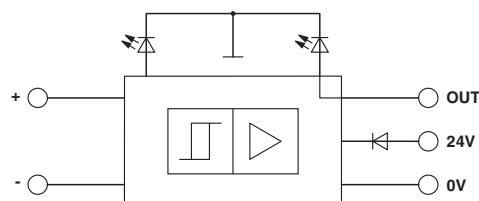
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### Environmental Product Compliance

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

## Drawings

Circuit diagram



## Solid-state relay module - EIK1-SVN-24P - 2940799

### Approvals

Approvals

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Approvals

EAC

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Ex Approvals

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### Approval details

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