

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

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



Key Commercial Data

Packing unit	10 pc
GTIN	 4 017918 080242
GTIN	4017918080242

Technical data

Note

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

Height	80 mm
Depth	56 mm

Ambient conditions

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

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	≥ 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
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)
Type of protection	36 V Zener diode as free-wheeling diode
Protective circuit/component	36 V Zener diode as free-wheeling diode

General

Mounting position	any
Assembly instructions	In rows with zero spacing

Connection data

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Technical data

Connection data

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

Connection data 2

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

Standards and Regulations

Designation	Air clearances and creepage distances
Standards/regulations	IEC 60664
	EN 61000-6-2
	EN 61000-6-4
Pollution degree	2
Overvoltage category	III

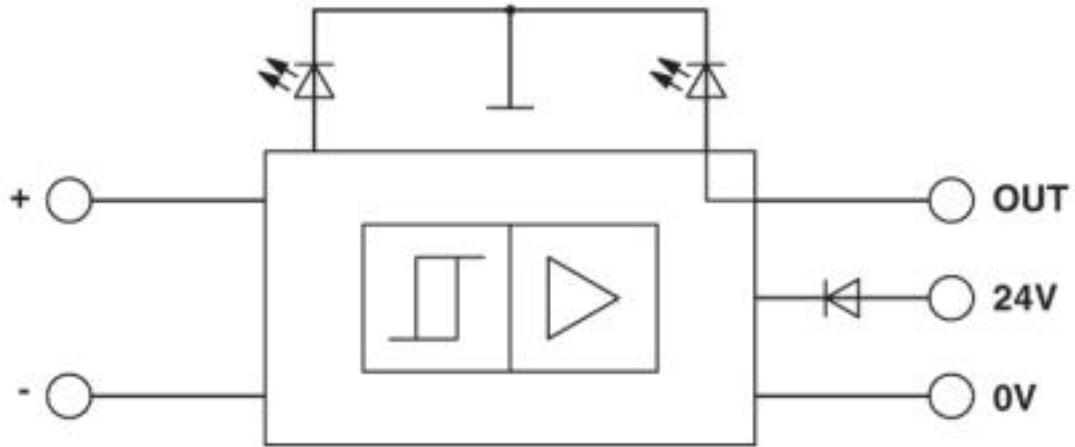
Environmental Product Compliance

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

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

Circuit diagram



Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

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