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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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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	≥ 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)
	$U_{VN} - U_R$; 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

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 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, output side

Connection name	Output side
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Conductor cross section AWG	24 ... 12
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

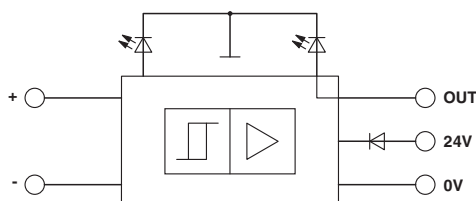
Designation	Air clearances and creepage distances
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Environmental Product Compliance

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



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Approvals


Approvals

Approvals

EAC

Ex Approvals

Approval details

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