

Electronic terminal block - 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

Product Features

- ✓ 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	1 pc
GTIN	 4 017918 080242
Weight per Piece (excluding packing)	33.4 g
Custom tariff number	85364190
Country of origin	China

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

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Technical data

Dimensions

Depth	56 mm
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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	Protection against polarity reversal
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

Connection data, input side

Connection name	Input side
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Connection data, input side

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.2 mm² ... 4 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
AWG conductor cross section	24 ... 12
Torque	0.5 Nm

Connection data, output side

Connection name	Output side
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.2 mm² ... 4 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
AWG conductor cross section	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
Pollution degree	2
Overvoltage category	III

Classifications

eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001
eCl@ss 8.0	27141120



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Classifications

ETIM

ETIM 2.0	EC001437
ETIM 3.0	EC001437
ETIM 4.0	EC001437
ETIM 5.0	EC000897

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39121515

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approvals submitted

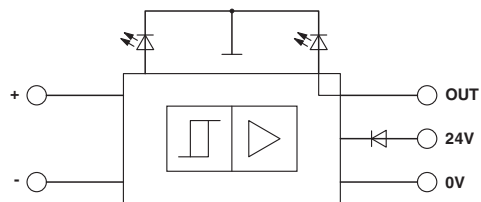
Approval details

EAC

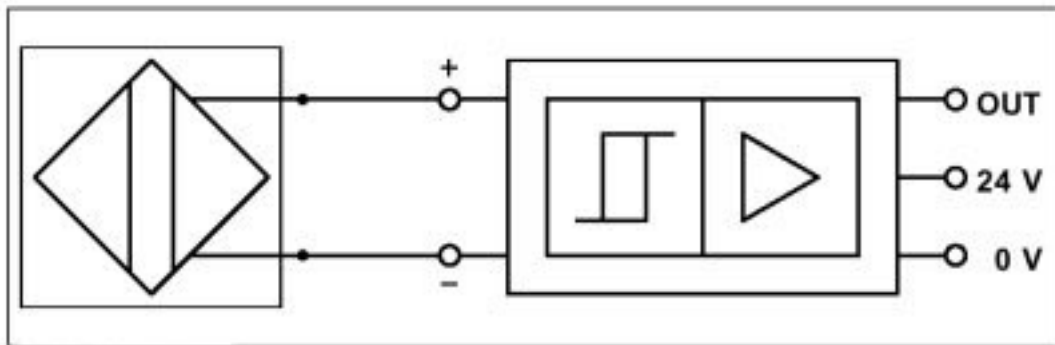
Drawings

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Circuit diagram

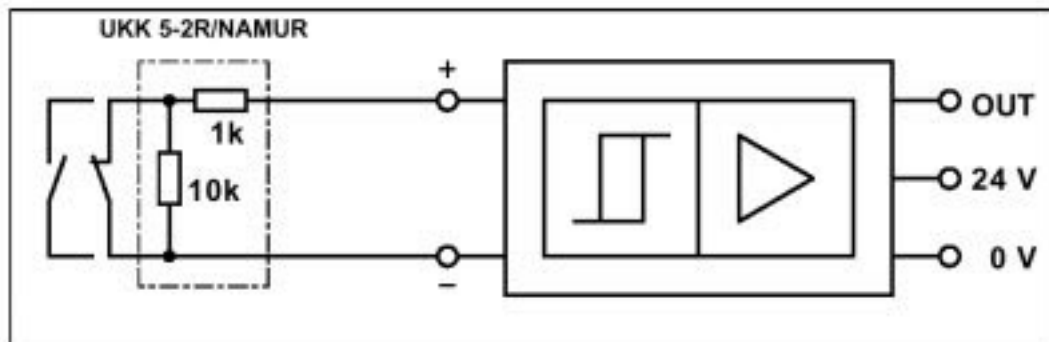


Application drawing



NAMUR initiator

Application drawing



Limit switch

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Diagram

