

# PLC-SP-EIK 1-SVN 24M - Solid-state relay module



2982605

<https://www.phoenixcontact.com/us/products/2982605>

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PLC-INTERFACE for NAMUR applications, consisting of PLC-BSP.../21 basic terminal block with spring-cage connection and integrated circuit, for mounting on DIN rail NS 35/7,5, negative switching, 1 N/O contact, input voltage 24 V DC

## Your advantages

- Connection option for PLC-V8 adapter
- Stabilized supply voltage for the NAMUR proximity switch
- 24 V/50 mA digital output for directly connecting programmable logic controllers

## Commercial data

Item number	2982605
Packing unit	1 pc
Sales key	C461
Product key	DK6225
GTIN	4046356095365
Weight per piece (including packing)	32.4 g
Weight per piece (excluding packing)	32.4 g
Customs tariff number	85364190
Country of origin	DE

## Technical data

### Notes

#### 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
Product family	PLC-INTERFACE
Application	NAMUR proximity sensors
Operating mode	100% operating factor

#### Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	Basic insulation
Overvoltage category	I
Pollution degree	2

#### Data management status

Date of last data management	15.09.2025
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### Electrical properties

#### Air clearances and creepage distances between the power circuits

Rated insulation voltage	50 V DC
Rated surge voltage	0.4 kV

### Input data

#### Control circuit

Nominal input voltage $U_N$	8.2 V DC $\pm 10\%$
Protective circuit	Surge protection; Suppressor diode
Open-circuit voltage	8.2 V DC $\pm 10\%$
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. 1000 $\Omega$
Cable length	< 30 m

### Output data

Designation	Signal output
Contact switching type	1 N/O contact
Design of digital output	electronic

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Output voltage range	3 V DC ... 33 V DC
Limiting continuous current	50 mA
Transmission frequency	approx. 350 Hz
Voltage drop at max. limiting continuous current	< 1.5 V
Status display	LED (green)
Error indication	Red LED
Protective circuit	Surge protection; Suppressor diode
Designation	Alarm output
Output nominal voltage	30 V DC
Output voltage range	3 V DC ... 33 V DC
Limiting continuous current	100 mA
Voltage drop at max. limiting continuous current	< 1.5 V
Error indication	Red LED
Protective circuit	Surge protection; Suppressor diode

## Connection data

### Input side

Connection method	Spring-cage connection
Stripping length	8 mm
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	26 ... 14

### Output side

Connection method	Spring-cage connection
Stripping length	8 mm
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	26 ... 14

## Dimensions

Width	6.2 mm
Height	80 mm
Depth	86 mm

## Material specifications

Color	green (RAL 6021)
Flammability rating according to UL 94 (Housing)	V0 (Housing)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

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## Standards and regulations

Air clearances and creepage distances between the power circuits

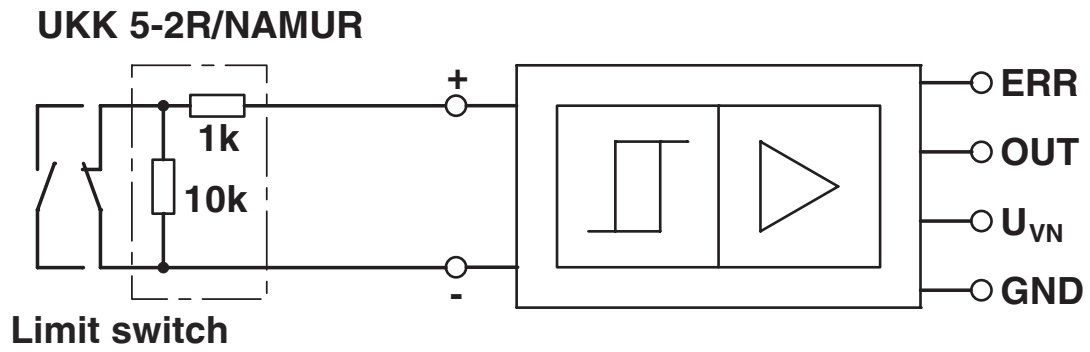
Standards/regulations	IEC 60664
	EN 50178

## Mounting

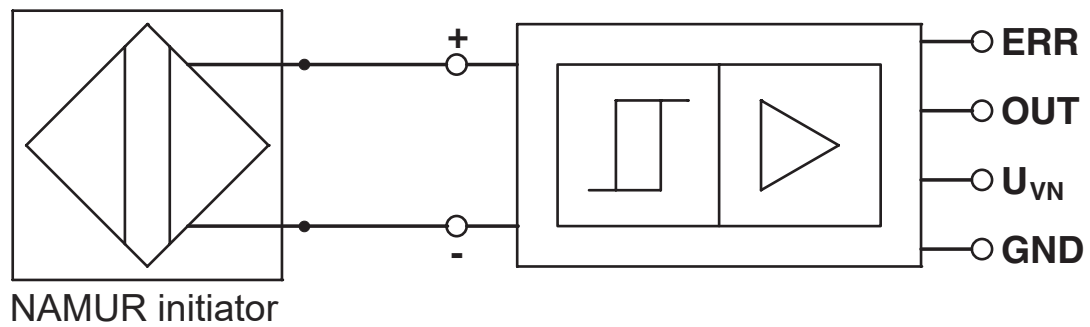
Assembly note	in rows with zero spacing
Mounting position	any

Drawings

Application drawing



Application drawing

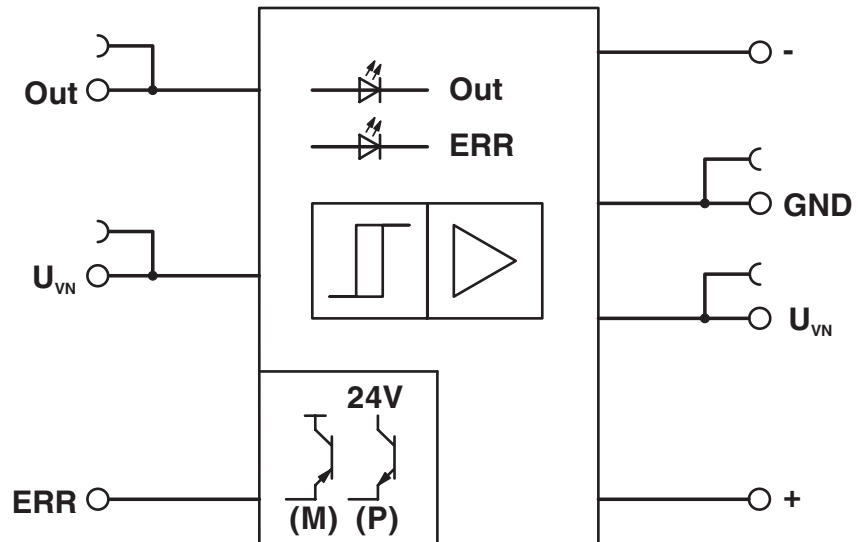


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Circuit diagram



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## Environmental product compliance

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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