

# PLC-PT-EIK 1-SVN 24P/P - Solid-state relay module



2900397

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PLC-INTERFACE for NAMUR applications, consisting of PLC-BPT.../21 basic terminal block with Push-in connection and integrated circuit, for mounting on NS 35/7,5 DIN rail, positive switching output, 24 V DC supply voltage

## 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	2900397
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	DK6223
GTIN	4046356506779
Weight per piece (including packing)	30.88 g
Weight per piece (excluding packing)	31.13 g
Customs tariff number	85364190
Country of origin	DE

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## Technical data

### 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

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

Maximum power dissipation for nominal condition	0.34 W
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### Air clearances and creepage distances

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. 1 k $\Omega$
Cable length	< 30 m

### Output data

Designation	Signal output
Contact switching type	1 N/O contact
Design of digital output	electronic
Output nominal voltage	$\leq 100$ mV (In conductive state) $U_{VN} - U_R$ ; in blocking state
Limiting continuous current	50 mA
Transmission frequency	approx. 350 Hz

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Voltage drop at max. limiting continuous current	$\leq 1.5 \text{ V (U}_R\text{)}$
Status display	LED (green)
Error indication	Red LED
Protective circuit	Surge protection; Suppressor diode
Designation	Alarm output
Output nominal voltage	$U_{VN} - U_{Res}$
Limiting continuous current	50 mA
Voltage drop at max. limiting continuous current	$\leq 2 \text{ V (U}_{Rest}\text{)}$
Error indication	Red LED
Protective circuit	Surge protection; Suppressor diode

## Connection data

Connection method	Push-in connection
Stripping length	10 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>
	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Single ferrule)
	2x 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup> (TWIN ferrule)
Conductor cross-section AWG	26 ... 14

## Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

## Material specifications

Color	gray (RAL 7042)
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

## Approvals

CE	
Certificate	CE-compliant

Corrosive gas test	
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

## EMC data

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Electromagnetic compatibility

Conformance with EMC directive

## Standards and regulations

Air clearances and creepage distances

Standards/regulations

IEC 60947-5-1

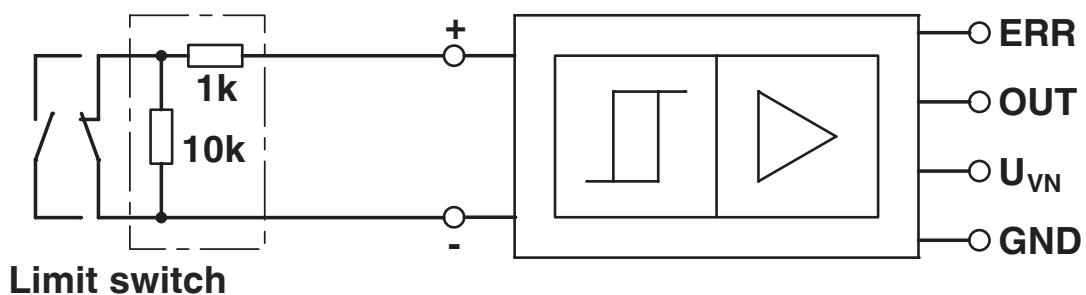
## Mounting

Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

## Drawings

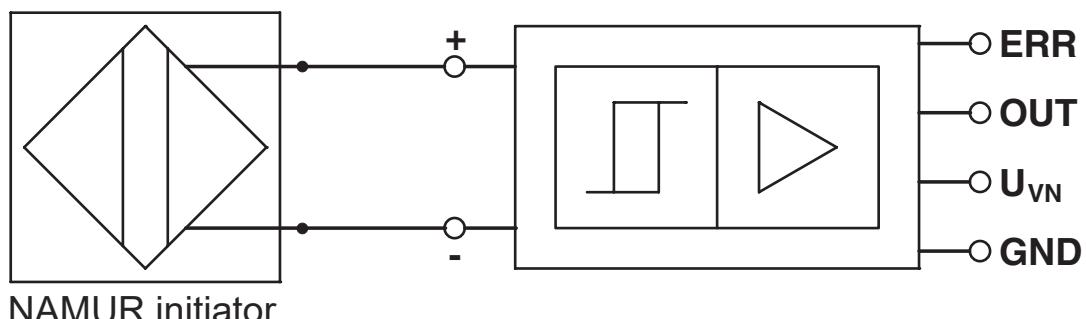
Application drawing

**UKK 5-2R/NAMUR**



Limit switch

Application drawing



NAMUR initiator

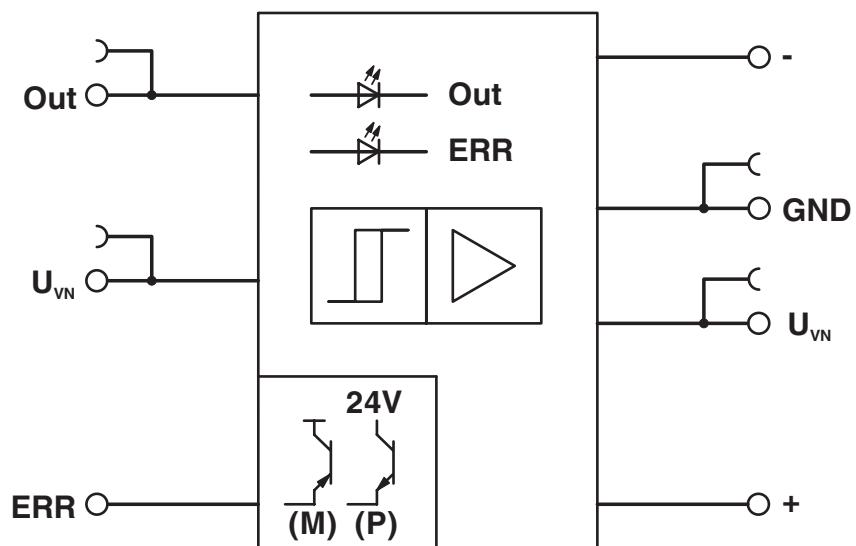
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Circuit diagram



# PLC-PT-EIK 1-SVN 24P/P - Solid-state relay module

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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2900397>



**cULus Listed**

Approval ID: E140324

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## Classifications

### ECLASS

ECLASS-13.0	27371604
ECLASS-15.0	27371604

### ETIM

ETIM 9.0	EC001504
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### UNSPSC

UNSPSC 21.0	39122300
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### 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.)	Lead(CAS: 7439-92-1)
SCIP	65148be9-96c9-46ba-82cb-bd6404302572

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