

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	CK6223
Catalog page	Page 422 (C-5-2019)
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	16.09.2024
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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
Non-load voltage	8.2 V DC $\pm 10\%$
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
Cable length	< 30 m

Output data

Designation	Signal output
Contact switching type	1 N/O contact
Design of digital output	electronic
Output nominal voltage	≤ 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 ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
	0.2 mm ² ... 2.5 mm ² (Single ferrule)
	2x 0.5 mm ² ... 1 mm ² (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	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

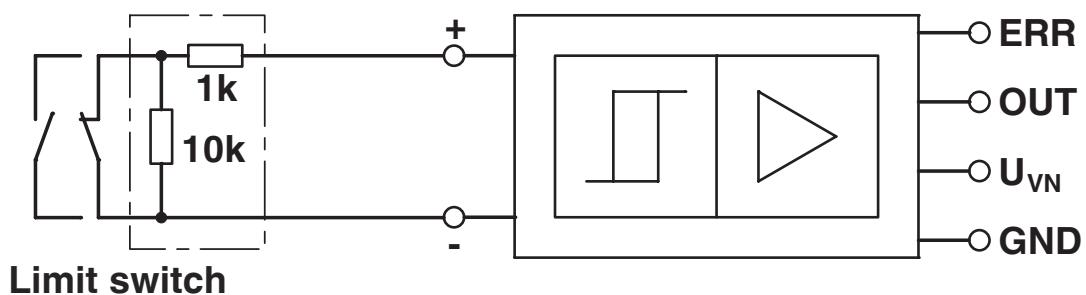
Mounting

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

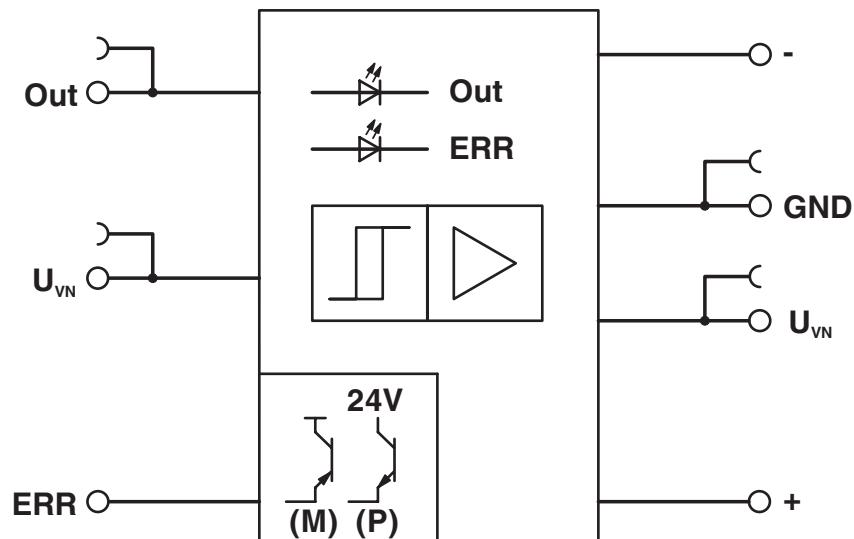
Drawings

Application drawing

UKK 5-2R/NAMUR



Circuit diagram



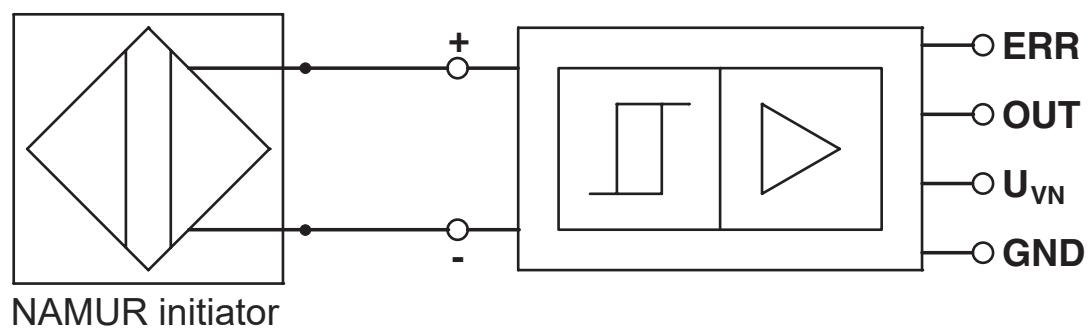
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Application drawing



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Approvals

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cULus Listed

Approval ID: E140324

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Classifications

ECLASS

ECLASS-11.0	27371604
ECLASS-12.0	27371604
ECLASS-13.0	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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