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

2982663

https://www.phoenixcontact.com/us/products/2982663

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PLC-INTERFACE for NAMUR applications, consisting of PLC-BSC.../21 basic terminal block with screw 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 | 2982663 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | C461 |
| Product key | DK6223 |
| GTIN | 4046356147330 |
| Weight per piece (including packing) | 37.437 g |
| Weight per piece (excluding packing) | 35.54 g |
| Customs tariff number | 85364190 |
| Country of origin | DE |

# 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 | 29.10.2026 |

## Electrical properties

| | |
|---|---|
| Maximum power dissipation for nominal condition | 0.34 W |

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 ±10 % |
| Protective circuit | Surge protection; Suppressor diode |
| Open-circuit voltage | 8.2 V DC ±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 kΩ |
| Cable length | < 30 m |

## Output data

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 |

| | |
|---|---|
| Voltage drop at max. limiting continuous current | ≤ 1.5 V ($U_R$) |
| Status display | LED (green) |
| Error indication | Red LED |
| Protective circuit | Surge protection; Suppressor diode |

Alarm output

| | |
|---|---|
| Output nominal voltage | $U_{VN}$ - $U_{Res}$ |
| Limiting continuous current | 50 mA |
| Voltage drop at max. limiting continuous current | ≤ 2 V ($U_{Rest}$) |
| Error indication | Red LED |
| Protective circuit | Surge protection; Suppressor diode |

## Connection data

| | |
|---|---|
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Conductor cross-section rigid | 0.14 mm² ... 2.5 mm² |
| Conductor cross-section flexible | 0.14 mm² ... 2.5 mm² |
| | 0.2 mm² ... 2.5 mm² (Single ferrule) |
| | 2x 0.5 mm² ... 1.5 mm² (TWIN ferrule) |
| Conductor cross-section AWG | 26 ... 14 |
| Tightening torque | 0.45 Nm ... 0.55 Nm (Usually these terminal blocks must be supported during conductor connection (held by one hand, supported on the housing)) |

## Dimensions

Item dimensions

| | |
|---|---|
| Width | 6.2 mm |
| Height | 80 mm |
| Depth | 94 mm |

## Material specifications

| | |
|---|---|
| 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

| | |
|---|---|
| Electromagnetic compatibility | Conformance with EMC directive |

## Standards and regulations

Air clearances and creepage distances

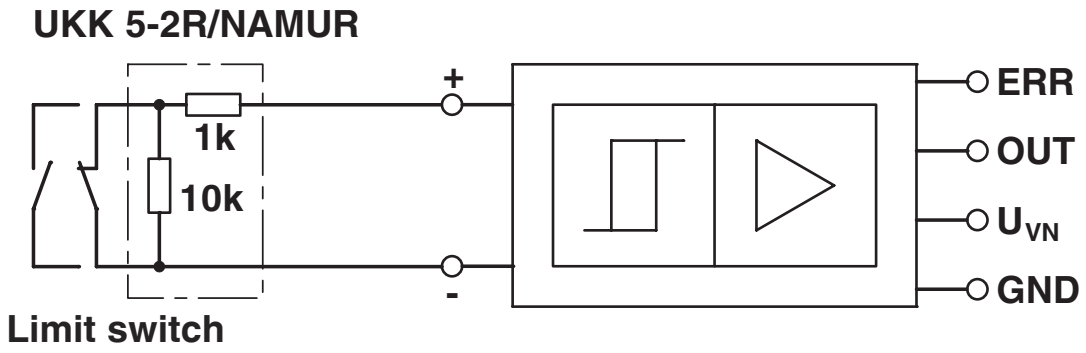
| | |
|---|---|
| Standards/regulations | IEC 60947-5-1 |

## Mounting

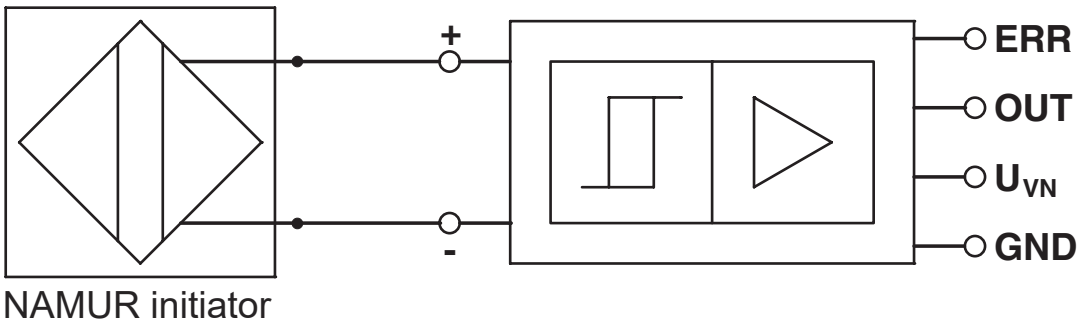
| | |
|---|---|
| Mounting type | DIN rail mounting |
| Assembly note | in rows with zero spacing |
| Mounting position | any |

## Drawings

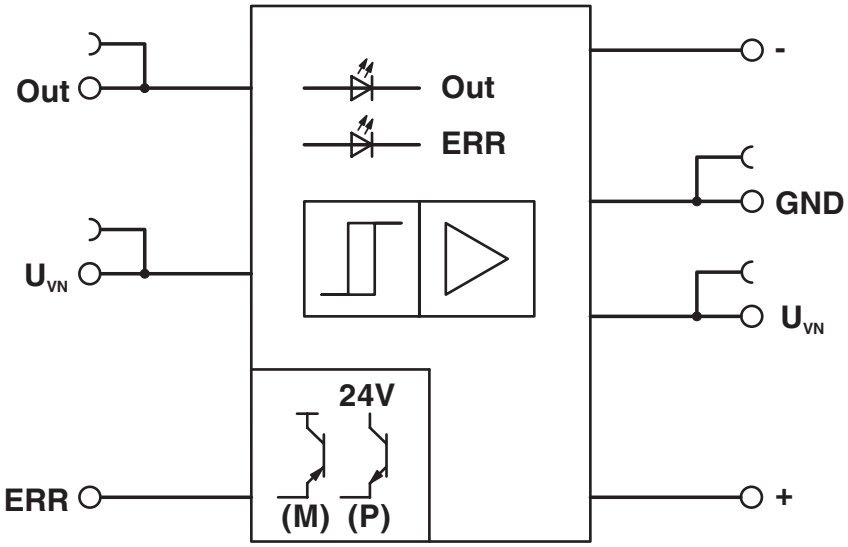
Application drawing




Application drawing



Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2982663

**cULus Listed**
Approval ID: E140324

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## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27371604 |
| ECLASS-15.0 | 27371604 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC001504 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39122300 |

## 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 | 2e039036-5f81-4caa-990c-73a32f8fce0e |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 0.866 kg CO2e |

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