

## Solid-state relay module - PLC-SC-EIK 1-SVN 24P/P - 2982663

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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

### Product Features

- ✓ 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



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	36.0 GRM
Custom tariff number	85364190
Country of origin	Germany

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
-------------------------	---

#### Dimensions

Width	6.2 mm
Height	80 mm
Depth	86 mm

#### Ambient conditions

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

## Solid-state relay module - PLC-SC-EIK 1-SVN 24P/P - 2982663

### Technical data

#### Input data

Designation	Supply
Nominal input voltage $U_N$	24 V DC $\pm 20$ %
Input voltage range in reference to $U_N$	0.8 ... 1.2
Typical input current at $U_N$	approx. 14 mA
Max. current consumption	approx. 70 mA (at 50 mA output current)
Operating voltage display	Green LED
Type of protection	Protection against polarity reversal
	Surge protection
Protective circuit/component	Polarity protection diode
	Suppressor diode
Designation	Control circuit
Nominal input voltage $U_N$	8.2 V DC $\pm 10$ %
Type of protection	Surge protection
Protective circuit/component	Suppressor diode
Non-load 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
Output nominal voltage	$\leq 100$ mV (In conductive state)
	$U_{VN} - U_{Ri}$ in blocking state
Limiting continuous current	50 mA
Transmission frequency	approx. 350 Hz
Voltage drop at max. limiting continuous current	$\leq 1.5$ V ( $U_R$ )
Status display	Green LED
Indication	Red LED
Type of protection	Surge protection
Protective circuit/component	Suppressor diode
Designation	Alarm output
Output nominal voltage	$U_{VN} - U_{Res}$
Limiting continuous current	50 mA

## Solid-state relay module - PLC-SC-EIK 1-SVN 24P/P - 2982663

### Technical data

#### Output data

Voltage drop at max. limiting continuous current	$\leq 2 \text{ V (U}_{\text{Rest}})$
Indication	Red LED
Type of protection	Surge protection
Protective circuit/component	Suppressor diode

#### Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.14 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	12

#### General

Mounting position	any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor
Inflammability class according to UL 94	V0
Designation	Air and creepage distances
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Rated surge voltage / insulation	0.4 kV / Basic isolation
Rated insulation voltage	50 V DC
Pollution degree	2
Surge voltage category	I

### 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

# Solid-state relay module - PLC-SC-EIK 1-SVN 24P/P - 2982663

## Classifications

### eCl@ss

eCl@ss 7.0	27371001
eCl@ss 8.0	27371001

### ETIM

ETIM 2.0	EC001504
ETIM 3.0	EC001504
ETIM 4.0	EC001504
ETIM 5.0	EC001504

### UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121542
UNSPSC 11	39121542
UNSPSC 12.01	39121542
UNSPSC 13.2	39121542

## Approvals

### Approvals

---

#### Approvals

UL Listed / cUL Listed / GL / cUL Listed / cULus Listed / cULus Listed / cULus Listed / null / null / null / null

---

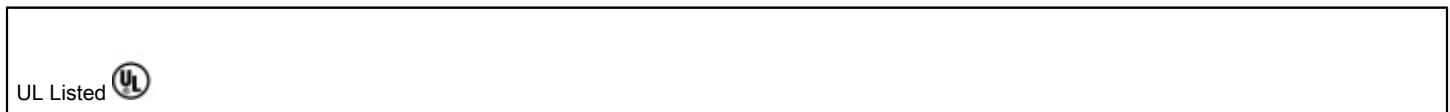
### Ex Approvals

---

### Approvals submitted

---

## Approval details



# Solid-state relay module - PLC-SC-EIK 1-SVN 24P/P - 2982663

## Approvals

GL

cUL Listed

cULus Listed

cULus Listed

cULus Listed

## Accessories

### Accessories

#### Bridge

Continuous plug-in bridge - FBST 500-PLC RD - 2966786



Continuous plug-in bridge, Length: 500 mm, Color: red

## Solid-state relay module - PLC-SC-EIK 1-SVN 24P/P - 2982663

### Accessories

Continuous plug-in bridge - FBST 500-PLC BU - 2966692



Continuous plug-in bridge, Length: 500 mm, Color: blue

---

Continuous plug-in bridge - FBST 500-PLC GY - 2966838



Continuous plug-in bridge, Length: 500 mm, Color: gray

---

Single plug-in bridge - FBST 6-PLC RD - 2966236



Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: red

---

Single plug-in bridge - FBST 6-PLC BU - 2966812



Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: blue

---

Single plug-in bridge - FBST 6-PLC GY - 2966825



Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: gray

---

## Solid-state relay module - PLC-SC-EIK 1-SVN 24P/P - 2982663

### Accessories

Single plug-in bridge - FBST 8-PLC GY - 2967688



Single plug-in bridge, Length: 8 mm, Number of positions: 2, Color: gray

---

### Controller board

System connection - PLC-V8/FLK14/IN - 2296553



V8L-INPUT adapter for eight 6.2 mm PLC interfaces (1 PDT, etc./see "Supplementary Products"). 14-pos. flat-ribbon cable connection for the PLC system cabling, control logic: Plus switching

---

System connection - PLC-V8/FLK14/IN/M - 2304115



V8L-INPUT adapter for eight 6.2 mm PLC interfaces (1 PDT, etc./see "Supplementary Products"). 14-pos. flat-ribbon cable connection for the PLC system cabling, control logic: Minus switching

---

System connection - PLC-V8/D15S/IN - 2296074



V8-INPUT adapter for eight 6.2 mm PLC interfaces (1 PDT, etc./see "Additional Products"). 15-pin D-SUB male connector, control logic: Positive switching

---

System connection - PLC-V8/D15B/IN - 2296087



V8-INPUT adapter for eight 6.2 mm PLC interfaces (1 PDT, etc./see "Additional Products"). 15-pin D-SUB female connector, control logic: Positive switching

## Solid-state relay module - PLC-SC-EIK 1-SVN 24P/P - 2982663

### Accessories

#### Mounting rail

DIN rail, unperforated - NS 35/ 7,5 V2A UNPERF 2000MM - 0801377



DIN rail, unperforated, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver

---

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm

---

DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM - 0801762



DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m

---

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m

---

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895



DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m

---

## Solid-state relay module - PLC-SC-EIK 1-SVN 24P/P - 2982663

### Accessories

DIN rail, unperforated - NS 35/15-2,3 UNPERF 2000MM - 1201798



DIN rail, material: Steel, unperforated, 2.3 mm thick, height 15 mm, width 35 mm, length: 2 m

---

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756



DIN rail, deep drawn, high profile, unperforated, 1.5 mm thick, material: aluminum, height 15 mm, width 35 mm, length 2000 mm

---

DIN rail perforated - NS 35/15 PERF 2000MM - 1201730



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm

---

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681



DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m

---

### Partition plate

Separating plate - PLC-ATP BK - 2966841



Separating plate, 2 mm thick, required at the start and end of a PLC terminal strip. Furthermore, it is used for: visual separation of groups, safe isolation of different voltages of neighboring PLC relays in acc. with DIN VDE 0106-101, isolation

---

# Solid-state relay module - PLC-SC-EIK 1-SVN 24P/P - 2982663

## Accessories

### Power module

Power terminal block - PLC-ESK GY - 2966508



Power terminal block, for the input of up to four potentials, for mounting on NS 35/7.5

## Screwdriver tools

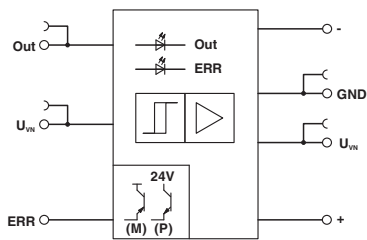
Screwdriver - SZF 1-0,6X3,5 - 1204517



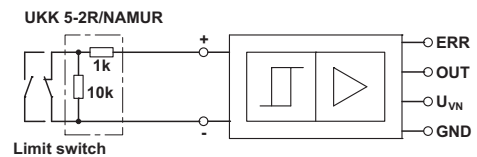
Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

## Drawings

Circuit diagram



Application drawing



Application drawing

