

# 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

## Why buy this product

- 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	10 STK
GTIN	 4 046356 147330
GTIN	4046356147330

## 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

### Input data

Designation	Device supply
-------------	---------------

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

## Technical data

### Input data

Nominal input voltage $U_N$	24 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.2
Input voltage range	19.2 V DC ... 28.8 V DC
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	Reverse polarity protection
	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
Power dissipation for nominal condition	0.34 W

### 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
Voltage drop at max. limiting continuous current	$\leq 2$ V ( $U_{Rest}$ )
Indication	Red LED
Type of protection	Surge protection

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

## Technical data

### Output data

Protective circuit/component	Suppressor diode
------------------------------	------------------

### Connection data, input side

Connection name	Input side
Connection method	Screw connection
Stripping length	8 mm
Conductor cross section solid	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 ... 12

### Connection data, output side

Connection name	Output side
Connection method	Screw connection
Stripping length	8 mm
Conductor cross section solid	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 ... 12

### General

Mounting position	any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor
Flammability rating according to UL 94	V0
Designation	Air clearances and creepage distances
Standards/regulations	IEC 60664
	EN 50178
Degree of pollution	2
Overvoltage category	I

### Standards and Regulations

Designation	Air clearances and creepage distances
Standards/regulations	IEC 60664
	EN 50178
Rated insulation voltage	50 V DC
Rated surge voltage	0.4 kV
Insulation	Basic insulation
Degree of pollution	2
Overvoltage category	I
Flammability rating according to UL 94	V0

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50

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

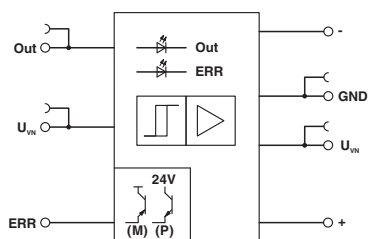
## Technical data

### Environmental Product Compliance

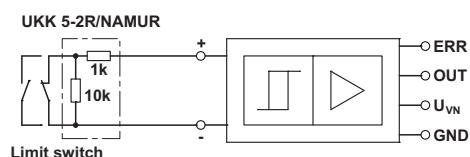
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"
--	---

## Drawings

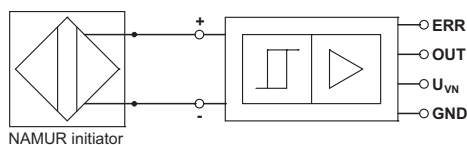
Circuit diagram



Application drawing



Application drawing



## Approvals

### Approvals

#### Approvals

UL Listed / cUL Listed / GL / EAC / cULus Listed

#### Ex Approvals

### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 172140
-----------	--	---	---------------

cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 172140
------------	--	---	---------------

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

### Approvals

GL		<a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a>	75084-09 HH
----	---	---	-------------

EAC			RU C- DE.A*30.B.01082
-----	---	--	--------------------------

cULus Listed			
--------------	---	--	--

Phoenix Contact 2018 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>