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## Solid-state relay module - PLC-PT-EIK 1-SVN 24P/P - 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 DIN rail NS 35/7,5, positive switching, 1 N/O contact, input voltage 24 V DC

The illustration shows the versions with screw connection

### 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
Custom tariff number	85369010
Country of origin	Germany

### Technical data

#### Note

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

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## Technical data

### Ambient conditions

Degree of protection	IP20
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### 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)
	$U_{VN} - U_R$ ; 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

# Solid-state relay module - PLC-PT-EIK 1-SVN 24P/P - 2900397

## Technical data

### Output data

Output nominal voltage	$U_{VN} - U_{Res}$
Limiting continuous current	50 mA
Voltage drop at max. limiting continuous current	$\leq 2 \text{ V } (U_{Rest})$
Indication	Red LED
Type of protection	Surge protection
Protective circuit/component	Suppressor diode

### Connection data

Connection method	Push-in connection
Stripping length	8 mm
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	14

### 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



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### Classifications

#### eCl@ss

eCl@ss 6.0	27371001
eCl@ss 7.0	27371001
eCl@ss 8.0	27371001

#### ETIM

ETIM 2.0	EC001504
ETIM 3.0	EC001504
ETIM 4.0	EC000196
ETIM 5.0	EC000196

#### 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 / UL Recognized / cUL Recognized / cULus Recognized / cULus Listed

##### Ex Approvals






##### Approvals submitted

#### Approval details

UL Listed 
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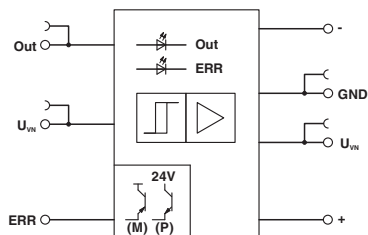
# Solid-state relay module - PLC-PT-EIK 1-SVN 24P/P - 2900397

## Approvals

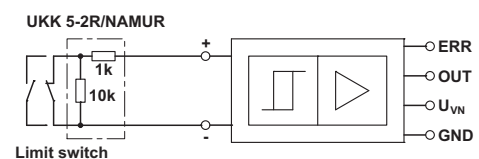
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## Drawings

Circuit diagram



Application drawing



Application drawing

