

# Solid-state relay module - PLC-OSC-120UC/ 48DC/100/SEN - 2966799

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PLC sensor interface, consisting of PLC-BSC...SEN basic terminal block with screw connection and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rails, input: 120 V AC/110 V DC, output: 3 - 48 V DC/100 mA

The figure shows the 24 V DC version

## Product Features

- Time savings of up to 60%
- Efficient connection to system cabling using V8 adapter
- No need for additional modular terminal blocks
- Relay modules with safe isolation according to DIN EN 50178 between coil and contact
- Space savings of up to 80%
- Functional plug-in bridges
- Sensor connected directly to relay module



## Key commercial data

<b>package_quantity</b>	10
<b>GTIN</b>	4017918130619

## Technical data

Note:

<b>Utilization restriction</b>	EMC: class A product, see manufacturer's declaration in the download area
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### Dimensions

<b>Width</b>	6.2 mm
<b>Height</b>	80 mm
<b>Depth</b>	94 mm

### Ambient conditions

<b>Ambient temperature (operation)</b>	-25 °C ... 60 °C
<b>Ambient temperature (storage/transport)</b>	-25 °C ... 70 °C

### Input data

<b>Nominal input voltage U<sub>N</sub></b>	120 V AC (110 V DC)
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## Technical data

### Input data

Nominal input voltage $U_N$	110 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.1
Switching threshold "0" signal in reference to $U_N$	$\leq 0.3$
Switching threshold "1" signal in reference to $U_N$	$\geq 0.8$
Typical input current at $U_N$	3.5 mA
Typical response time	6 ms (at $U_N$ )
Typical turn-off time	10 ms (at $U_N$ )
Operating voltage display	Yellow LED
Type of protection	Bridge rectifier
Protective circuit/component	Bridge rectifier
Transmission frequency	10 Hz

### Output data

Output voltage range	3 V DC ... 48 V DC
Limiting continuous current	100 mA
Voltage drop at max. limiting continuous current	$\leq 1$ V
Output circuit	2-wire, floating
Type of protection	Protection against polarity reversal
Type of protection	Surge protection
Protective circuit/component	Polarity protection 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	14

### General

Test voltage input/output	2.5 kV (50 Hz, 1 min.)
Mounting position	Any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor
Inflammability class according to UL 94	V0
Name	Standards/regulations
Standards/regulations	IEC 60664
Standards/regulations	EN 50178

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## Technical data

### General

<b>Standards/regulations</b>	IEC 62103
<b>Rated surge voltage / insulation</b>	Basic insulation
<b>Pollution degree</b>	2
<b>Surge voltage category</b>	III

## classifications

### eCl@ss

<b>eCl@ss 4.0</b>	27371102
<b>eCl@ss 4.1</b>	27371102
<b>eCl@ss 5.0</b>	27371001
<b>eCl@ss 5.1</b>	27371001
<b>eCl@ss 6.0</b>	27371001
<b>eCl@ss 7.0</b>	27371001
<b>eCl@ss 8.0</b>	27371001

### ETIM

<b>ETIM 2.0</b>	EC001504
<b>ETIM 3.0</b>	EC001504
<b>ETIM 4.0</b>	EC001504
<b>ETIM 5.0</b>	EC001504


### UNSPSC

<b>UNSPSC 6.01</b>	30211916
<b>UNSPSC 7.0901</b>	39121542
<b>UNSPSC 11</b>	39121542
<b>UNSPSC 12.01</b>	39121542
<b>UNSPSC 13.2</b>	39121542

## approvals

UL Recognized / UL Listed / cUL Recognized / GOST / cUL Listed / GL / cULus Recognized / cULus Listed /

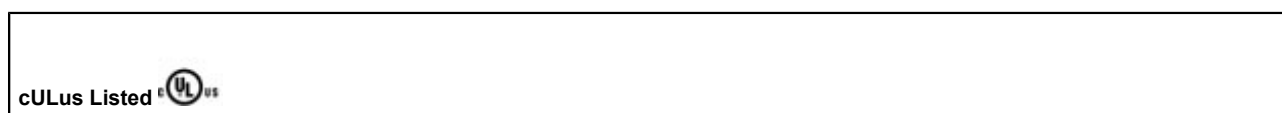
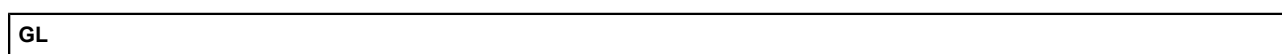
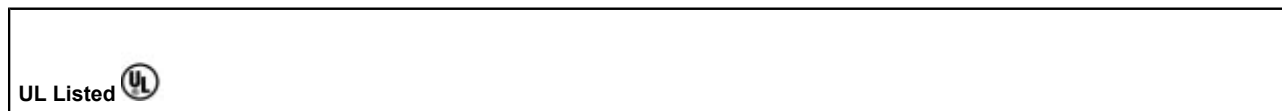
### Approval details

<b>UL Recognized</b> 	
Nominal voltage UN	
Nominal current IN	

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## approvals

mm²/AWG/kcmil	12
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## accessories

### Mounting rail

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



## Solid-state relay module - PLC-OSC-120UC/ 48DC/100/ SEN - 2966799

### accessories

NS 35/ 7,5 PERF 2000MM - 0801733



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



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NS 35/15 UNPERF 2000MM - 1201714



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NS 35/15 CU UNPERF 2000MM - 1201895



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



## Solid-state relay module - PLC-OSC-120UC/ 48DC/100/ SEN - 2966799

### accessories

NS 35/15 AL UNPERF 2000MM - 1201756



NS 35/15 PERF 2000MM - 1201730



NS 35/ 7,5 UNPERF 2000MM - 0801681



### Terminal marking

ZB 6/WH-100:UNBEDRUCKT - 5060935



ZB 6:UNBEDRUCKT - 1051003



### Labeled terminal marker

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## accessories

ZB 6,LGS:FORTL.ZAHLEN - 1051016



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### Partition plate

PLC-ATP BK - 2966841



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### Power module

PLC-ESK GY - 2966508



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### Screwdriver tools

SZF 1-0,6X3,5 - 1204517



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### Controller board

## Solid-state relay module - PLC-OSC-120UC/ 48DC/100/ SEN - 2966799

### accessories

PLC-V8/FLK14/IN - 2296553



PLC-V8/FLK14/IN/M - 2304115



PLC-V8/D15B/IN - 2296087



### Interface module

PLC-V8/D15S/IN - 2296074



### Relay socket

PLC-BSC-120UC/ 1/SEN - 2966074





## Solid-state relay module - PLC-OSC-120UC/ 48DC/100/ SEN - 2966799

accessories

### Single solid-state relay

OPT-60DC/ 48DC/100 - 2966621



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### Bridge

FBST 500-PLC RD - 2966786



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FBST 500-PLC BU - 2966692



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FBST 500-PLC GY - 2966838



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FBST 6-PLC RD - 2966236



## Solid-state relay module - PLC-OSC-120UC/ 48DC/100/ SEN - 2966799

### accessories

FBST 6-PLC BU - 2966812



FBST 6-PLC GY - 2966825



FBST 8-PLC GY - 2967688



### Drawings

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Circuit diagram

