

# Solid-state relay module - PLC-OSC- 24DC/ 48DC/100 - 2966728

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PLC-INTERFACE, consisting of PLC-BSC basic terminal block with screw connection and plug-in miniature solid-state relay, for mounting on NS 35/7,5 DIN rails, input: 24 V DC, output: 3 - 48 V DC/100 mA

## Product Features

- Narrow design
- Efficient connection to system cabling using V8 adapter
- RT III sealed solid-state relay
- High switching power
- Integrated input circuit
- Functional plug-in bridges
- Zero voltage switch at AC output



## Key commercial data

package_quantity	10
GTIN	4017918130565

## 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	94 mm

## Ambient conditions

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

## Input data

Nominal input voltage $U_N$	24 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.2
Switching threshold "0" signal in reference to $U_N$	$\leq 0.4$

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## Technical data

### Input data

Switching threshold "1" signal in reference to $U_N$	$\geq 0.8$
Typical input current at $U_N$	8.5 mA
Typical response time	20 $\mu$ s (at $U_N$ )
Typical turn-off time	300 $\mu$ s (at $U_N$ )
Operating voltage display	Yellow LED
Type of protection	Protection against polarity reversal
Type of protection	Free-wheeling diode
Protective circuit/component	Polarity protection diode
Protective circuit/component	Damping diode
Transmission frequency	300 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
Standards/regulations	IEC 62103
Rated surge voltage / insulation	Basic insulation
Pollution degree	2

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## Technical data

### General

Surge voltage category	III
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### 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
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

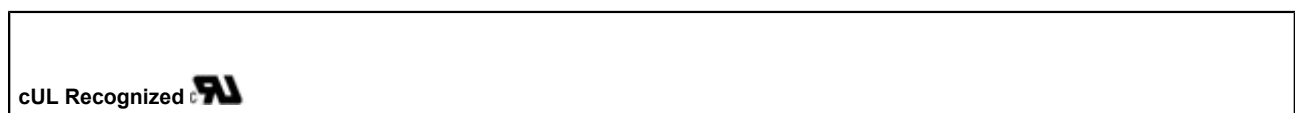
#### UNSPSC

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

### approvals

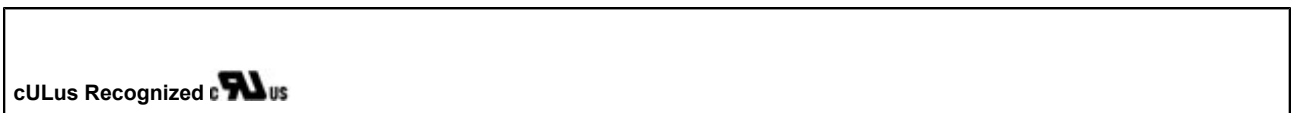
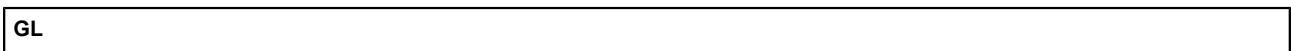
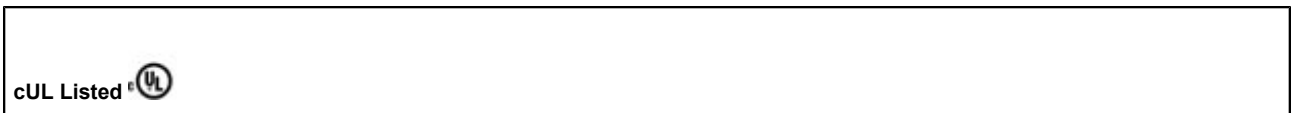
UL Recognized / UL Listed / cUL Recognized / GOST / cUL Listed / GL / cULus Recognized / cULus Listed /

#### Approval details



# Solid-state relay module - PLC-OSC- 24DC/ 48DC/100 - 2966728

approvals



accessories

## Mounting rail

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



NS 35/ 7,5 PERF 2000MM - 0801733



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



## Solid-state relay module - PLC-OSC- 24DC/ 48DC/100 - 2966728

### accessories

NS 35/15 UNPERF 2000MM - 1201714



NS 35/15 CU UNPERF 2000MM - 1201895



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



NS 35/15 AL UNPERF 2000MM - 1201756



NS 35/15 PERF 2000MM - 1201730



NS 35/ 7,5 UNPERF 2000MM - 0801681



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accessories

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## Power module

PLC-ESK GY - 2966508



## Partition plate

PLC-ATP BK - 2966841



## Screwdriver tools

SZF 1-0,6X3,5 - 1204517



## Labeled terminal marker

ZB 6,LGS:FORTL.ZAHLEN - 1051016



## Terminal marking

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accessories

ZB 6:UNBEDRUCKT - 1051003



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## Controller board

PLC-V8/FLK14/OUT - 2295554



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PLC-V8/FLK14/OUT/M - 2304102



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PLC-V8/D15B/OUT - 2296061



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PLC-V8/FLK14/IN - 2296553



## Solid-state relay module - PLC-OSC- 24DC/ 48DC/100 - 2966728

### accessories

PLC-V8/FLK14/IN/M - 2304115



PLC-V8/D15B/IN - 2296087



### Interface module

PLC-V8/D15S/OUT - 2296058



PLC-V8/D15S/IN - 2296074



### Relay socket

PLC-BSC- 24DC/21 - 2966016



### Single solid-state relay



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accessories

OPT-24DC/ 48DC/100 - 2966618



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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- 24DC/ 48DC/100 - 2966728

### accessories

FBST 6-PLC BU - 2966812



FBST 6-PLC GY - 2966825



FBST 8-PLC GY - 2967688



### Drawings

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Circuit diagram

