

PLC-OSP-230UC/ 48DC/100/SEN - Solid-state relay module



2967594

<https://www.phoenixcontact.com/us/products/2967594>

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 documentation. Our general terms of use for downloads are valid.



PLC-INTERFACE for input functions, consisting of PLC-BSP.../SEN basic terminal block with spring-cage connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 230 V AC/220 V DC, output: 3 - 48 V DC/100 mA

Your advantages

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

Commercial data

Item number	2967594
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C461
Product key	DK6225
GTIN	4017918165833
Weight per piece (including packing)	30.52 g
Weight per piece (excluding packing)	28.68 g
Customs tariff number	85364900
Country of origin	DE

PLC-OSP-230UC/ 48DC/100/SEN - Solid-state relay module



2967594

<https://www.phoenixcontact.com/us/products/2967594>

Technical data

Notes

Utilization restriction

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

Product properties

Product type	Solid-state relay module
Product family	PLC-INTERFACE
Application	Input function
Operating mode	100% operating factor

Insulation characteristics: Standards/regulations

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	01.04.2026
------------------------------	------------

Electrical properties

Test voltage (Input/output)	2.5 kV (50 Hz, 1 min., input/output)
-----------------------------	--------------------------------------

Input data

Nominal input voltage U_N	230 V AC
	220 V DC
Input voltage range in reference to U_N	0.8 ... 1.1
Input voltage range	184 V AC ... 253 V AC
	176 V DC ... 242 V DC
Switching threshold "0" signal in reference to U_N	≤ 0.3
Switching threshold "1" signal in reference to U_N	≥ 0.8
Typical input current at U_N	3.5 mA
Typical response time	3 ms (at U_N)
Typical turn-off time	5 ms (at U_N)
Operating voltage display	Yellow LED
Protective circuit	Bridge rectifier; Bridge rectifier
Transmission frequency	10 Hz

Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
Output voltage range	3 V DC ... 48 V DC
Limiting continuous current	100 mA

PLC-OSP-230UC/ 48DC/100/SEN - Solid-state relay module



2967594

<https://www.phoenixcontact.com/us/products/2967594>

Voltage drop at max. limiting continuous current	≤ 1 V
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection

Connection data

Input side

Connection method	Spring-cage connection
Stripping length	8 mm
Conductor cross-section rigid	0.14 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross-section AWG	26 ... 14

Output side

Connection method	Spring-cage connection
Stripping length	8 mm
Conductor cross-section rigid	0.14 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross-section AWG	26 ... 14

Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Material specifications

Color	green (RAL 6021)
Flammability rating according to UL 94 (Housing)	V0 (Housing)

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

Standards/regulations

Standards/regulations	IEC 60664 EN 50178
-----------------------	-----------------------

Mounting

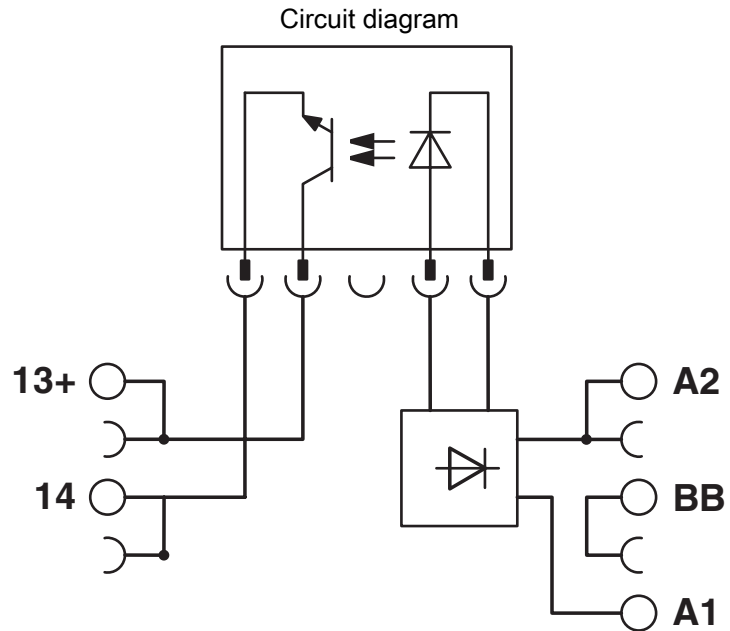
Assembly note	in rows with zero spacing
Mounting position	any

PLC-OSP-230UC/ 48DC/100/SEN - Solid-state relay module

2967594

<https://www.phoenixcontact.com/us/products/2967594>

Drawings



PLC-OSP-230UC/ 48DC/100/SEN - Solid-state relay module



2967594

<https://www.phoenixcontact.com/us/products/2967594>

Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com