

# PLC-OSC- 24DC/ 48DC/100/C1D2 - Optocoupler



5603261

<https://www.phoenixcontact.com/us/products/5603261>

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, consisting of DIN rail-mountable basic terminal block with screw connection and plug-in miniature solid-state relay, input: 24 V DC, output: 3 - 48 V DC/100 mA, UL/cUL: approved for use in Ex Zone Class I, Div. 2

## Commercial data

Item number	5603261
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	DK622K
GTIN	4046356687379
Weight per piece (including packing)	37.63 g
Weight per piece (excluding packing)	37 g
Customs tariff number	85364190
Country of origin	DE

## 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	Class I, Division 2 potentially explosive areas
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	15.09.2025
------------------------------	------------

### Electrical properties

Maximum power dissipation for nominal condition	0.2 W
Test voltage (Input/output)	2.5 kV (50 Hz, 1 min., input/output)

### Input data

Nominal input voltage $U_N$	24 V DC
Nominal voltage (plugged-in solid-state relay)	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
Switching threshold "0" signal in reference to $U_N$	$\leq 0.4$
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
Protective circuit	Reverse polarity protection; Polarity protection diode Freewheeling diode; Freewheeling diode
Transmission frequency	300 Hz

### Output data

Contact switching type	1 N/O contact
Design of digital output	electronic

# PLC-OSC- 24DC/ 48DC/100/C1D2 - Optocoupler



5603261

<https://www.phoenixcontact.com/us/products/5603261>

Output voltage range	3 V DC ... 48 V DC
Limiting continuous current	100 mA
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

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	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> 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Single ferrule) 2x 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (TWIN ferrule)
Conductor cross-section AWG	26 ... 14
Tightening torque	0.6 Nm ... 0.8 Nm

## Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

## Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94 (Housing)	V0 (Housing)

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

## Approvals

### CE

Certificate	CE-compliant
-------------	--------------

### UL, USA

Identification	Class I, Zone 2, AEx nA nC IIC T6
----------------	-----------------------------------

### UL, USA/Canada

Identification	Class I, Div. 2, Groups A, B, C, D
----------------	------------------------------------

### UL, Canada

Identification	Class I, Zone 2, Ex nA nC IIC Gc T6 X
----------------	---------------------------------------

# PLC-OSC- 24DC/ 48DC/100/C1D2 - Optocoupler



5603261

<https://www.phoenixcontact.com/us/products/5603261>

## Corrosive gas test

Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

## Standards and regulations

### Standards/regulations

Standards/regulations	IEC 60947-5-1
-----------------------	---------------

## Mounting

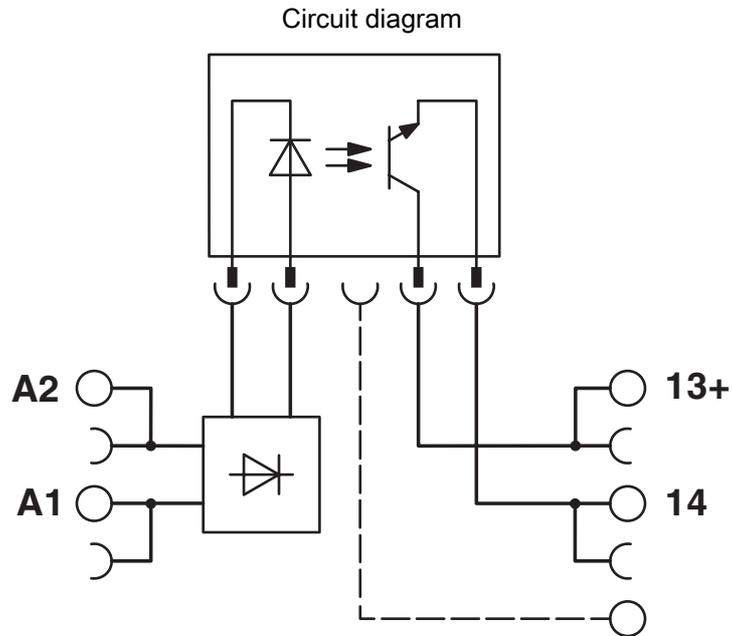
Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

# PLC-OSC- 24DC/ 48DC/100/C1D2 - Optocoupler

5603261

<https://www.phoenixcontact.com/us/products/5603261>

## Drawings



# PLC-OSC- 24DC/ 48DC/100/C1D2 - Optocoupler



5603261

<https://www.phoenixcontact.com/us/products/5603261>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/5603261>



**EAC**

Approval ID: RU C-DE.A\*30.B.01082



**cULus Listed**

Approval ID: E140324



**cUL Listed**

Approval ID: E199827



**UL Listed**

Approval ID: E199827



**cULus Listed**

Approval ID: E199827

# PLC-OSC- 24DC/ 48DC/100/C1D2 - Optocoupler



5603261

<https://www.phoenixcontact.com/us/products/5603261>

## Classifications

### ECLASS

ECLASS-13.0	27371604
ECLASS-15.0	27371604

### ETIM

ETIM 9.0	EC001504
----------	----------

### UNSPSC

UNSPSC 21.0	39122300
-------------	----------

5603261

<https://www.phoenixcontact.com/us/products/5603261>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### 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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	1b9e08df-e3b8-44c4-be5b-7861431e0697

Phoenix Contact 2025 © - 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](mailto:info@phoenixcon.com)