



Automatización Eléctrica
Especialistas en Automatización

At the end of this document you will find links to products related to this catalog. You can go directly to our shop by clicking [HERE](#). [HERE](#)

Solid-state relay module - PLC-OPT- 5DC/24DC/100KHZ-G - 2902973

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Input solid-state relay, with DC voltage output push-pull, transmission frequency: 100 kHz, with light indicator and protective circuit in input and output circuits, input: 5 V DC, output: 14 - 30 V DC/50 mA

The figure shows a version with a screw connection

Key Commercial Data

| | |
|--------------|--|
| Packing unit | 1 STK |
| GTIN |  4 046356 702799 |

Technical data

Note

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

Dimensions

| | |
|--------|--------|
| Width | 6.2 mm |
| Height | 80 mm |
| Depth | 86 mm |

Ambient conditions

| | |
|---|------------------|
| Ambient temperature (operation) | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -25 °C ... 75 °C |
| Degree of protection | IP20 |

Input data

| | |
|--|--------------------------------------|
| Nominal input voltage U_N | 5 V DC |
| Input voltage range in reference to U_N | 0.5 ... 1.2 |
| Switching threshold "0" signal in reference to U_N | < 0.3 |
| Switching threshold "1" signal in reference to U_N | > 0.5 |
| Typical input current at U_N | 8 mA |
| Typical response time | 1 μ s |
| Typical turn-off time | 2 μ s |
| Operating voltage display | Yellow LED |
| Type of protection | Protection against polarity reversal |

Solid-state relay module - PLC-OPT- 5DC/24DC/100KHZ-G - 2902973

Technical data

Input data

| | |
|--------------------------|------------------|
| | Surge protection |
| Surge voltage protection | > 14 V |
| Transmission frequency | 100 kHz |

Output data

| | |
|--|--|
| Designation | Output data |
| Output voltage range | 14 V DC ... 30 V DC |
| Limiting continuous current | 50 mA |
| Quiescent current | 15 mA |
| Surge voltage protection | > 35 V |
| Voltage drop at max. limiting continuous current | < 2.2 V |
| Output circuit | 3-conductor push-pull, ground referenced |
| Type of protection | Protection against polarity reversal |
| | Surge protection |

Connection data, input side

| | |
|----------------------------------|--|
| Connection name | Input side |
| Connection method | Push-in connection |
| Stripping length | 8 mm |
| Conductor cross section solid | 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 |

Connection data, output side

| | |
|----------------------------------|--|
| Connection name | Output side |
| Connection method | Push-in connection |
| Stripping length | 8 mm |
| Conductor cross section solid | 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 |

General

| | |
|--------------------------------|--|
| Test voltage input/output | 2.5 kV _{rms} (50 Hz, 1 min.) |
| Mounting position | any |
| Assembly instructions | In rows with zero spacing |
| Operating mode | 100% operating factor |
| Designation | Air clearances and creepage distances between the power circuits |
| Standards/regulations | DIN EN 50178 |
| Rated surge voltage/insulation | 0.5 kV / basic insulation |
| Rated insulation voltage | 50 V DC |
| Degree of pollution | 2 |
| Overvoltage category | II |

Solid-state relay module - PLC-OPT- 5DC/24DC/100KHZ-G - 2902973

Technical data

Standards and Regulations

| | |
|--------------------------------|--|
| Designation | Air clearances and creepage distances between the power circuits |
| Standards/regulations | DIN EN 50178 |
| Rated insulation voltage | 50 V DC |
| Rated surge voltage/insulation | 0.5 kV / basic insulation |
| Degree of pollution | 2 |
| Overvoltage category | II |

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 | 27371604 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001504 |
| ETIM 4.0 | EC000196 |
| 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

Approvals

Approvals

EAC

Ex Approvals

Solid-state relay module - PLC-OPT- 5DC/24DC/100KHZ-G - 2902973

Approvals

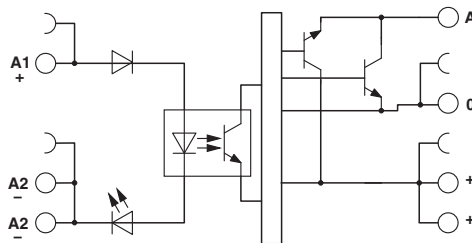
Approvals submitted

Approval details

| |
|-----|
| EAC |
|-----|

Drawings

Circuit diagram



Phoenix Contact 2016 © - all rights reserved
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>



Below is a list of articles with direct links to our shop Electric Automation Network where you can see:

- Quote per purchase volume in real time.
- Online documentation and datasheets of all products.
- Estimated delivery time enquiry in real time.
- Logistics systems for the shipment of materials almost anywhere in the world.
- Purchasing management, order record and tracking of shipments.

To access the product, [click on the green button.](#)

| Product | Code | Reference | Product link |
|---|---------|---------------------------|----------------------------|
| Input solid-state relay, with DC voltage output push-pull, transmission frequency: 100 kHz, with light indicator and protective circuit in input and output circuits, input: 5 V DC, output: 14 - 30 V DC/50 mA | 2902973 | PLC-OPT-5DC/24DC/100KHZ-G | Buy on EAN |