

# PLC-OPT- 24DC/TTL - Solid-state relay module



2900363

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PLC-INTERFACE for TTL signal, consisting of PLC-O.../TTL basic terminal block with push-in connection and integrated solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: TTL (5 V DC)

## Your advantages

- 6.2 mm narrow design width
- Resistant to vibrations and shocks
- Screw and spring-cage connection
- Switching power TTL (5 V), fan out = 1
- Status indicator
- Integrated protection circuit
- Bridging options

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2900363       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 10 pc         |
| Sales key                            | C461          |
| Product key                          | DK62A3        |
| GTIN                                 | 4046356508995 |
| Weight per piece (including packing) | 28.96 g       |
| Weight per piece (excluding packing) | 30.15 g       |
| Customs tariff number                | 85364190      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                |                          |
|----------------|--------------------------|
| Product type   | Solid-state relay module |
| Product family | PLC-INTERFACE            |
| Application    | TTL signal at output     |
| Operating mode | 100% operating factor    |

Insulation characteristics: Air clearances and creepage distances between the power circuits

|                      |                  |
|----------------------|------------------|
| Insulation           | Basic insulation |
| Overvoltage category | III              |
| Pollution degree     | 2                |

Data management status

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

### Electrical properties

|   |   |
|---|---|
| Maximum power dissipation for nominal condition | 0.08 W  |
| Test voltage (Input/output)                     | 2.5 kV <sub>rms</sub> (50 Hz, 1 min., input/output) |

Air clearances and creepage distances between the power circuits

|                          |          |
|--------------------------|----------|
| Rated insulation voltage | 250 V DC |
| Rated surge voltage      | 4 kV     |

### Input data

|  |   |
|--|---|
| Rated actuating voltage $U_C$                        | 24 V DC   |
| Voltage range with reference to $U_C$                | 0.8 ... 1.2   |
| Rated actuating current $I_C$                        | 3.4 mA  |
| Switching threshold "0" signal in reference to $U_N$ | < 0.4   |
| Switching threshold "1" signal in reference to $U_N$ | > 0.8   |
| Typical input current at $U_N$                       | 3.4 mA  |
| Typical response time                                | 35 $\mu$ s  |
| Typical turn-off time                                | 35 $\mu$ s  |
| Operating voltage display                            | Yellow LED  |
| Protective circuit                                   | Reverse polarity protection; Parallel polarity protection diode<br>Surge protection |
| Surge voltage protection                             | > 33 V  |
| Transmission frequency                               | 1 kHz   |

### Output data

|  |                |
|--|----------------|
| Designation                                | Output data    |
| Contact switching type                     | 1 N/O contact  |
| Design of digital output                   | electronic     |
| Contact connection type                    | Signal contact |
| Rated control circuit supply voltage $U_S$ | 5 V DC         |

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|  |   |
|--|---|
| Voltage range with reference to $U_S$            | 0.9 ... 1.2   |
| Output voltage range                             | 4.5 V DC ... 6 V DC   |
| Limiting continuous current                      | 50 mA (a TTL load (Fan out = 1))  |
| Fan out  | 1   |
| Surge voltage protection                         | > 8 V   |
| Voltage drop at max. limiting continuous current | < 80 mV   |
| Output circuit                                   | 3-conductor, ground-referenced  |
| Protective circuit                               | Reverse polarity protection; Parallel polarity protection diode<br>Surge protection |

## Connection data

|                                  |   |
|----------------------------------|---|
| Connection method                | Push-in connection  |
| Stripping length                 | 10 mm   |
| 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><br>0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Single ferrule)<br>2x 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup> (TWIN ferrule) |
| Conductor cross-section AWG      | 26 ... 14   |

## Dimensions

### Item 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

|   |                  |
|---|------------------|
| Degree of protection                    | IP20             |
| Ambient temperature (operation)         | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

## Approvals

### Corrosive gas test

|                |   |
|----------------|---|
| Identification | ISA-S71.04. G3 Harsh Group<br>EN 60068-2-60 |
|----------------|---|

## Standards and regulations

### Air clearances and creepage distances between the power circuits

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

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## Mounting

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

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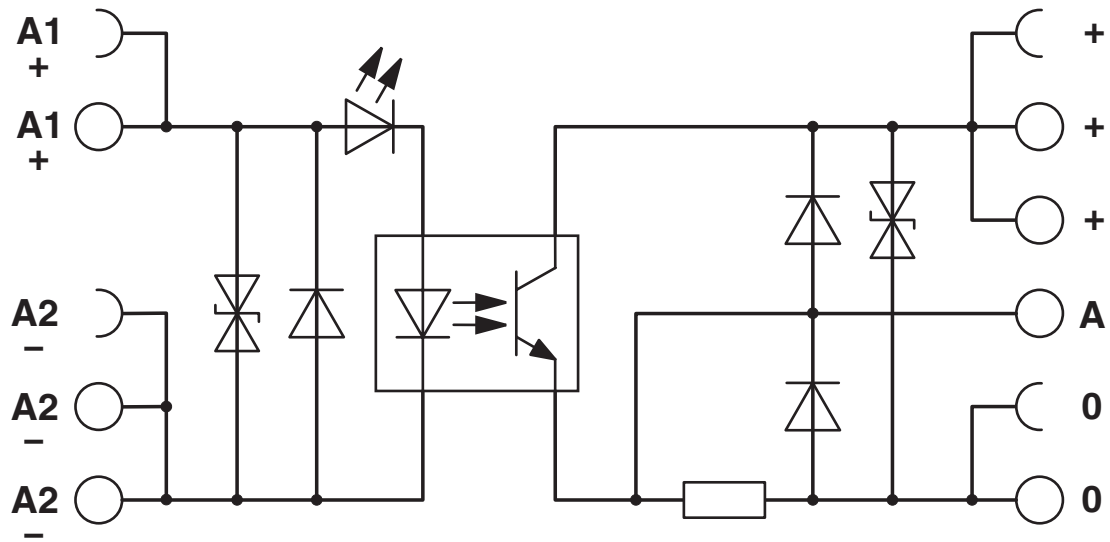


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## Drawings

Circuit diagram



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## Approvals

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**cULus Listed**

Approval ID: E140324



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27371604 |
| ECLASS-15.0 | 27371604 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001504 |
|-----------|----------|

### UNSPSC

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

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## 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.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | 52675edb-44e4-4d8f-a53b-c86465c0b2ad |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.821 kg CO2e |
|---------|---------------|

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