

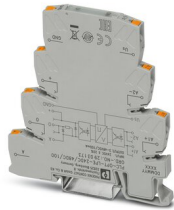
PLC-OPT-LPE-24DC/48DC/100 - Timer module



2903173

<https://www.phoenixcontact.com/in/products/2903173>

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1-channel pulse expansion module, input: 24 V DC, output: 3 - 48 V DC/100 mA, supply: 24 V DC, Push-in connection

Product Description

DIP switch settings:

Function

DIP A low - no restart when triggered again (default)

DIP A high - restart when triggered again

DIP B low - input pulse time > 2 ms (default)

DIP B high - input pulse time > 100 μ s

Pulse expansion times

DIP 1 - 10 ms

DIP 2 - 20 ms

DIP 3 - 40 ms

DIP 4 - 80 ms

DIP 5 - 160 ms

DIP 6 - 320 ms

DIP 7 - 640 ms

DIP 8 - 1280 ms

No DIP switch set: no switching function for the output

If the input signal is longer than the selected time, the output is switched off after removal of the input signal.

The settings are applied after a voltage reset of the rated control supply voltage.

Commercial Data

| | |
|--------------------------------------|---------------------|
| Item number | 2903173 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales Key | CK6 |
| Product Key | CK6235 |
| Catalog Page | Page 424 (C-5-2019) |
| GTIN | 4046356727860 |
| Weight per Piece (including packing) | 35.9 g |
| Weight per Piece (excluding packing) | 32.35 g |
| Customs tariff number | 85371098 |
| Country of origin | DE |

Technical Data

Product properties

| | |
|----------------|--------------------------|
| Product type | Solid-state relay module |
| Product family | PLC-INTERFACE |
| Application | Pulse stretching |
| Operating mode | 100% operating factor |

Insulation characteristics

| | |
|------------|------------------|
| Insulation | Basic insulation |
|------------|------------------|

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

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

Electrical properties

| | |
|---|---|
| Maximum power dissipation for nominal condition | 0.07 W |
| Test voltage (Input/output) | 2.5 kV _{rms} (50 Hz, 1 min., input/output) |

Air clearances and creepage distances between the power circuits

| | |
|--------------------------|---------|
| Rated insulation voltage | 50 V DC |
| Rated surge voltage | 0.5 kV |

Input data

| | |
|--|---------------------------------|
| Rated control circuit supply voltage U_S | 24 V DC |
| Voltage range with reference to U_S | 0.8 ... 1.2 |
| Rated control supply current I_S | 13 mA (Input low, output low) |
| | 19 mA (Input high, output high) |
| Rated actuating voltage U_C | 24 V DC |
| Rated actuating current I_C | 3 mA |
| Input voltage range | 19.2 V DC ... 28.8 V DC |
| "0" signal switching threshold in reference to U_C | < 0.4 |
| "1" signal switching threshold in reference to U_C | > 0.8 |
| Status display | Yellow LED |
| Operating voltage display | Green LED |
| Protective circuit | Reverse polarity protection |
| | Surge protection |
| Surge voltage protection | > 33 V DC |

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 |

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| | |
|--|--------------------------------|
| Surge voltage protection | > 54 V DC |
| Voltage drop at max. limiting continuous current | < 1 V DC |
| Output circuit | 3-conductor, ground-referenced |
| Protective circuit | Reverse polarity protection |
| | Surge protection |
| | Free running |

Connection data

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

Dimensions

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

Environmental and real-life conditions

Ambient conditions

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

Approvals

Corrosive gas test

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

Standards and regulations

Air clearances and creepage distances between the power circuits

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

Mounting

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

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