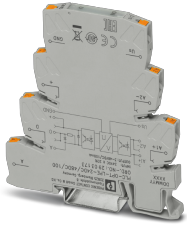


Timer module - PLC-OPT-LPE-24DC/48DC/100 - 2903173

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Single-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.



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 046356 727860 |
| GTIN | 4046356727860 |

Technical data

Note

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

Timer module - PLC-OPT-LPE-24DC/48DC/100 - 2903173

Technical data

Dimensions

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

Ambient conditions

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

Input data

| | |
|--|--|
| Rated control circuit supply voltage U_s | 24 V DC |
| Input voltage range | 19.2 V DC ... 28.8 V DC |
| 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 |
| "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 |
| Type of protection | Reverse polarity protection Surge protection |
| Surge voltage protection | > 33 V DC |
| Power dissipation for nominal condition | 0.07 W |

Output data

| | |
|--|---|
| Output voltage range | 3 V DC ... 48 V DC |
| Limiting continuous current | 100 mA |
| Surge voltage protection | > 54 V DC |
| Voltage drop at max. limiting continuous current | < 1 V DC |
| Output circuit | 3-conductor, ground-referenced |
| Type of protection | Reverse polarity protection Surge protection Free running |

General

| | |
|-----------------------|---|
| Test voltage | 2.5 kV _{rms} (50 Hz, 1 min., input/output) |
| Mounting position | any |
| Assembly instructions | in rows with zero spacing |
| Operating mode | 100% operating factor |

Connection data

| | |
|-------------------|--------------------|
| Connection name | Input side |
| Connection method | Push-in connection |

Timer module - PLC-OPT-LPE-24DC/48DC/100 - 2903173

Technical data

Connection data

| | |
|----------------------------------|--|
| 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 2

| | |
|----------------------------------|--|
| Connection name | Output side |
| Connection method | Push-in connection |
| 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 |

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 | 0.5 kV |
| Insulation | Basic insulation |
| Pollution degree | 2 |
| Overvoltage category | II |

Conformance/approvals

| | |
|----------------|----------------------------|
| Designation | Corrosive gas test |
| Identification | ISA-S71.04. G3 Harsh Group |
| | EN 60068-2-60 |

Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

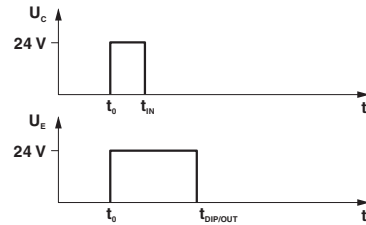
Drawings

Timer module - PLC-OPT-LPE-24DC/48DC/100 - 2903173

Connection diagram

| t_{DIP} | | | | | | | |
|-----------|----|----|----|-----|-----|-----|------|
| S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 |
| 10 | - | - | - | - | - | - | - |
| - | 20 | - | - | - | - | - | - |
| - | - | 40 | - | - | - | - | - |
| - | - | - | 80 | - | - | - | - |
| - | - | - | - | 160 | - | - | - |
| - | - | - | - | - | 320 | - | - |
| - | - | - | - | - | - | 640 | - |
| - | - | - | - | - | - | - | 1280 |

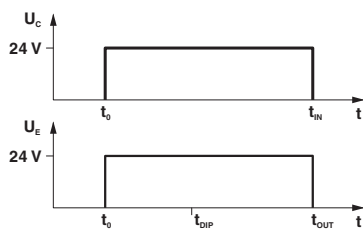
Diagram



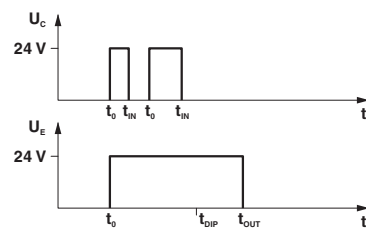
Input pulse $t_{IN} <$ set output pulse t_{DIP} (no restart when triggered again)

DIP switches

Diagram



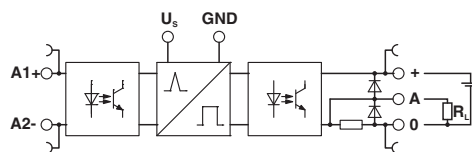
Diagram



Input pulse $t_{IN} \neq$ set output pulse t_{DIP} , then input pulse $t_{IN} =$ output pulse t_{OUT} (no restart when triggered again)

Input pulse $t_{IN} <$ set output pulse t_{DIP} (restart when triggered again)

Circuit diagram



Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27371604 |
| eCl@ss 11.0 | 27371604 |
| eCl@ss 4.0 | 27371000 |
| eCl@ss 4.1 | 27371000 |
| eCl@ss 5.0 | 27371000 |

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 5.1 | 27371000 |
| eCl@ss 6.0 | 27371600 |
| eCl@ss 7.0 | 27371604 |
| eCl@ss 9.0 | 27371604 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC001504 |
| ETIM 3.0 | EC001504 |
| ETIM 4.0 | EC001504 |
| ETIM 6.0 | EC001504 |
| ETIM 7.0 | EC001504 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211916 |
| UNSPSC 7.0901 | 39121542 |
| UNSPSC 11 | 39121542 |
| UNSPSC 12.01 | 39121542 |
| UNSPSC 13.2 | 39122326 |
| UNSPSC 18.0 | 39122326 |
| UNSPSC 19.0 | 39122326 |
| UNSPSC 20.0 | 39122326 |
| UNSPSC 21.0 | 39122326 |

Approvals

Approvals

Approvals

EAC / EAC

Ex Approvals

Approval details

| | | |
|-----|--|--------------------------|
| EAC | | RU C- DE.A*30.B.01082 |
|-----|--|--------------------------|

Timer module - PLC-OPT-LPE-24DC/48DC/100 - 2903173

Approvals

| | | |
|-----|--|----------------------|
| EAC | | RU*DE.*08.B.01536/19 |
|-----|--|----------------------|

Accessories

Accessories

DIN rail

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail perforated - NS 35/ 7,5 WH PERF 2000MM - 1204119



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/ 7,5 WH UNPERF 2000MM - 1204122



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

Timer module - PLC-OPT-LPE-24DC/48DC/100 - 2903173

Accessories

DIN rail, unperforated - NS 35/ 7,5 AL UNPERF 2000MM - 0801704



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

DIN rail perforated - NS 35/ 7,5 ZN PERF 2000MM - 1206421



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/ 7,5 ZN UNPERF 2000MM - 1206434



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM - 0801762



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

End cap - NS 35/ 7,5 CAP - 1206560



DIN rail end piece, for DIN rail NS 35/7.5

Timer module - PLC-OPT-LPE-24DC/48DC/100 - 2903173

Accessories

DIN rail perforated - NS 35/15 PERF 2000MM - 1201730



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail perforated - NS 35/15 WH PERF 2000MM - 0806602



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 WH UNPERF 2000MM - 1204135



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

Timer module - PLC-OPT-LPE-24DC/48DC/100 - 2903173

Accessories

DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

End cap - NS 35/15 CAP - 1206573



DIN rail end piece, for DIN rail NS 35/15

DIN rail, unperforated - NS 35/15-2,3 UNPERF 2000MM - 1201798



DIN rail, unperforated, Standard profile 2.3 mm, width: 35 mm, height: 15 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

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