

MACX-TR-1T-MUL-PT - Timer relay



1096431

<https://www.phoenixcontact.com/us/products/1096431>

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Multifunctional time relay, 24 V AC/DC ... 240 V AC/DC wide-range supply, with 13 functions, 1 adjustable time, in addition to Ip and Ii functions. Time range adjustable (10 ms ... 999 h:59 min), two configuration possibilities, password protection, supporting dry contacts, PNP and NPN proximity switch inputs, 2 PDTs, plug-in connection.

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1096431 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | C443 |
| Product key | CK4811 |
| GTIN | 4055626932156 |
| Weight per piece (including packing) | 175 g |
| Weight per piece (excluding packing) | 175 g |
| Customs tariff number | 85364190 |
| Country of origin | CN |

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Technical data

Product properties

| | |
|-------------------------|--------------------------------|
| Product type | Timer relay |
| Mechanical service life | Approx. 3×10^7 cycles |

Insulation characteristics

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

Insulation characteristics

| | |
|----------------------|------------------|
| Insulation | Basic insulation |
| Overvoltage category | III |
| Pollution degree | 3 |

Electrical properties

| | |
|---------------------------|---|
| Service life electrical | approx. 1×10^5 cycles, resistive load 2000 V A |
| Nominal frequency | 48 Hz ... 63 Hz |
| Nominal power consumption | 2.5 VA (0.8 W) |
| Rated insulation voltage | 300 V AC |
| Dielectric strength | 2 kV ((2 mA, 60 s) (IEC 60947-5-1)) |

Input data

| | |
|----------------------------------|--|
| Nominal power consumption | 2.5 VA (0.8 W) |
| Input voltage range | 24 V AC/DC ... 240 V AC/DC (-15 % ... +10 %) |
| Temperature coefficient, typical | $\leq 0.01 \text{ }^\circ\text{C}$ |
| Recovery time | 100 ms |
| Setting range time | 10 ms ... 59999 min. (10 ms ... 999 h 59 min.) |
| Setting accuracy | $\leq 0.5 \text{ } \%$ (> 1 s) |
| Repeat accuracy | $\leq 0.05 \text{ } \%$ (> 1 s) |

Control

| | |
|----------------------|-------------------------------|
| Connection name | Non-floating, terminals A1-B1 |
| Control pulse length | 50 ms |

Output data

Switching

| | |
|---------------------------------------|--------------------------------|
| Contact switching type | 2 floating changeover contacts |
| Contact material | AgNi (90/10) |
| Maximum switching voltage | 400 V AC |
| Interrupting rating (ohmic load) max. | 2000 VA (8 A / 250 V AC) |
| Output fuse | 8 A (fast-blow) |

Connection data

| | |
|-------------------|--------------------|
| Connection method | Push-in connection |
| Stripping length | 10 mm |

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| | |
|----------------------------------|---------------------|
| Conductor cross section rigid | 0.2 mm² ... 2.5 mm² |
| Conductor cross section flexible | 0.2 mm² ... 2.5 mm² |
| Conductor cross section AWG | 24 ... 14 |

Dimensions

| | |
|--------|---------|
| Width | 22.5 mm |
| Height | 109 mm |
| Depth | 114 mm |

Material specifications

| | |
|--|-----------------|
| Color | gray (RAL 7042) |
| Flammability rating according to UL 94 | V0 |
| Housing insulation material | PBT |

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 |
| Altitude | ≤ 2000 m |
| Permissible humidity (operation) | 10 % ... 95 % (non-condensing) |

Approvals

CE

| | |
|----------------|--------------|
| Identification | CE-compliant |
|----------------|--------------|

UL, USA/Canada

| | |
|----------------|-----------------------|
| Identification | UL/C-UL Listed UL 508 |
|----------------|-----------------------|

CCC

| | |
|----------------|--------------|
| Identification | GB/T 14048.5 |
|----------------|--------------|

EMC data

| | |
|-------------------------------|--|
| Low Voltage Directive | Conformance with Low Voltage Directive |
| Noise immunity | EN 61000-6-2 |
| Electromagnetic compatibility | Conformance with EMC directive |
| Noise emission | EN 61000-6-4 |

Standards and regulations

| | |
|-----------------------|---------------|
| Standards/regulations | IEC 60947-5-1 |
| | IEC 61812-1 |

Mounting

| | |
|-----------------------|--|
| Mounting type | DIN rail mounting |
| Assembly instructions | on standard DIN rail NS 35 in accordance with EN 60715 |

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1096431

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| | |
|-------------------|-----|
| Mounting position | any |
|-------------------|-----|

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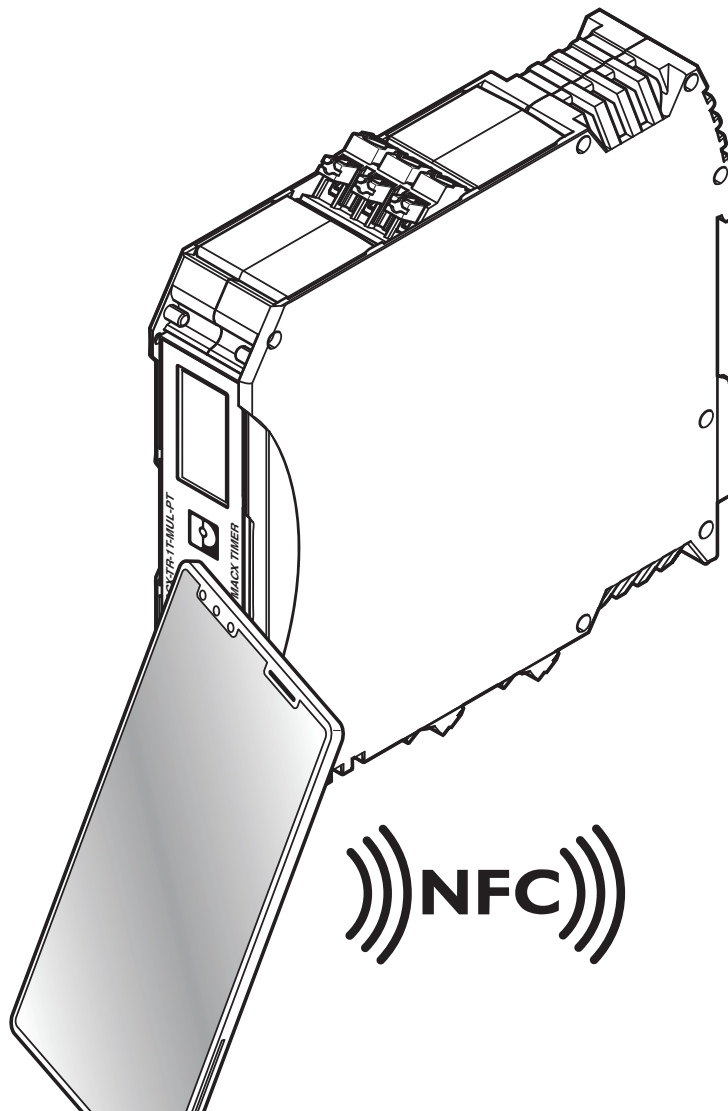
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Drawings

Schematic diagram



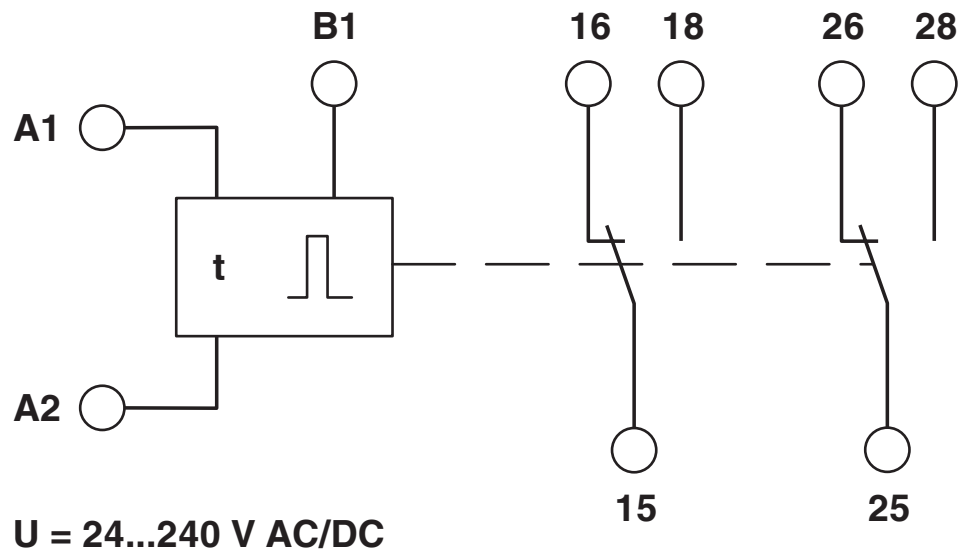
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Block diagram



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Approvals

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UL Listed
Approval ID: FILE E 172140



cUL Listed
Approval ID: FILE E 172140

cULus Listed

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27371605 |
| ECLASS-12.0 | 27371605 |
| ECLASS-13.0 | 27371605 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC001439 |
|----------|----------|

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 | a8cc270a-fb25-4ed9-b5d9-ab5515cf91f0 |

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Accessories

MACX-BLUETOOTH-NFC - Adapter

1142259

<https://www.phoenixcontact.com/us/products/1142259>



Bluetooth NFC adapter

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