



Time relay
TMLS
1

Product designation
Product type designation
Number of DIN modules

General characteristics

| | |
|-------------|--------------------------|
| Description | Time relay for staircase |
| Function | Staircase lighting |

Supply circuit

| | |
|--|------------------|
| Rated auxiliary supply voltage U_s | 220...240VAC |
| Rated auxiliary supply voltage U_s AC | |
| | min VAC 220 |
| | Max VAC 240 |
| Rated frequency | Hz 50/60 |
| Operating voltage range | 0.85...1.1 U_s |

| | | |
|---|----|--|
| Maximum power consumption / dissipation | W | Relay de-energised: 5VA/0.5W, relay energised: 12VA/0.8W |
| Immunity time for microbreakings | ms | ≤20 |

Timing circuit

| | | |
|------------------------------------|---|-------------|
| Time setting range | | 0.5...20min |
| Setting accuracy | % | <±9 |
| Repeat accuracy | % | <±0.5 |
| Influence of voltage variation | % | <±0.5 |
| Influence of temperature variation | % | <±0.25 |
| External command input | | |

| | | | |
|----------------|------------------|----|-----------|
| | Minimum ON time | ms | ≥60 |
| | Connenction time | | permanent |
| Resetting time | During timing | ms | ≥100 |

Relay outputs

| | | |
|--|-----|---------------|
| Number of relays | Nr. | 1 |
| Contact arrangement | | 1 delayed N/O |
| Maximum switching voltage | VAC | 250 |
| IEC Conventional free air thermal current I_{th} | A | 16 |

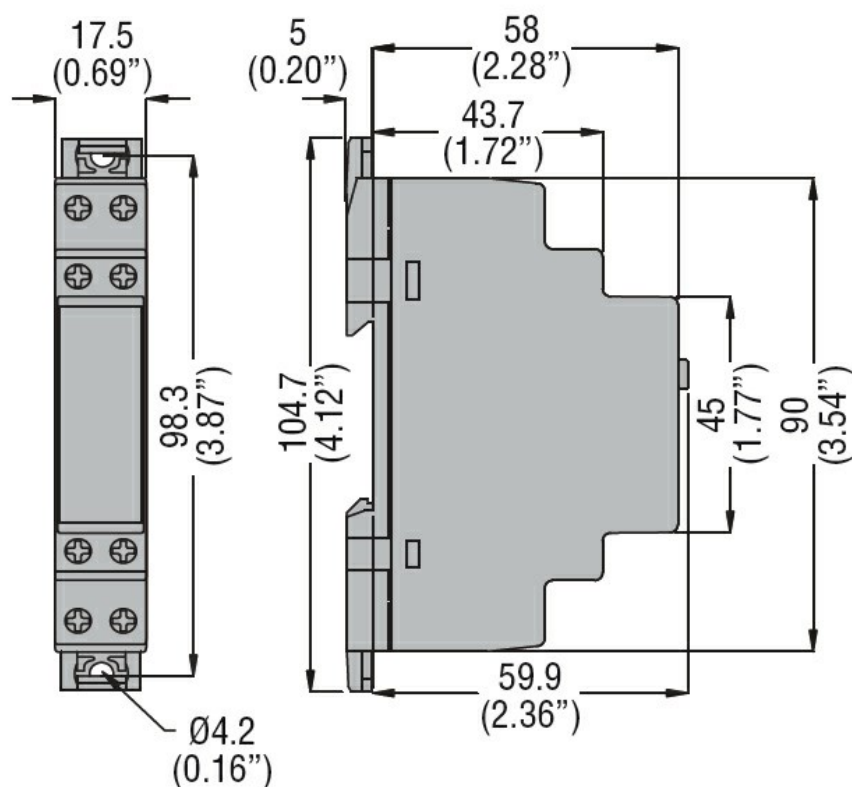
Insulation (input-output)

| | | |
|---|----|-----|
| Rated insulation voltage U_i | V | 250 |
| Rated impulse withstand voltage U_{imp} | kV | 4 |
| Power frequency withstand voltage | kV | 2 |

Connections

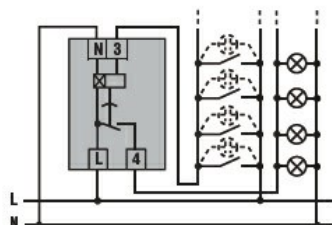
| | | |
|-------------------------|-----------------------|--------|
| Terminals type | | Screw |
| Tightening torque (Max) | Tightening torque Max | Nm 0.8 |

| | | Tightening torque Max | | Ibin | 7 / 7...9 UL |
|-----------------------------------|-----------|-----------------------|-----|---------|-------------------------------|
| Conductor section | AWG/Kcmil | | | | |
| | | min | | | 24...12 |
| | max | | | 12...18 | |
| | IEC | | | | |
| min | | mm² | 0.2 | | |
| | | max | | mm² | 4 |
| Operations | | | | | |
| Mechanical life | | | | cycles | 30000000 |
| Electrical life (with rated load) | | | | cycles | 100000 |
| Ambient conditions | | | | | |
| Temperature | | | | | |
| Operating temperature | | | | | |
| | | min | | °C | -20 |
| | | max | | °C | +60 |
| Storage temperature | | | | | |
| | | min | | °C | -30 |
| | | max | | °C | +80 |
| Relative humidity | | | | % | <90% |
| Maximum Pollution degree | | | | | 2 |
| Overvoltage category | | | | | III |
| Housing | | | | | |
| Execution (n° of modules) | | | | | 1 |
| Material | | | | | Self-extinguishing polyamide |
| Mounting | | | | | DIN rail 35 mm |
| Degree of protection | | | | | IP40 on front, IP20 terminals |
| Dimensions (W x H x D) | | | | mm | 17.5 x 104.7 x 64.9 |
| Weight | | | | g | 80 |
| Dimensions | | | | | |

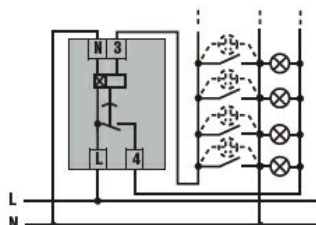


Wiring diagrams

4-wire connection



3-wire connection



Certifications and compliance

Compliance

CSA C22.2 n°14

IEC/EN 61812-1

UL508

Certificates

cULus

EAC

ETIM classification

ETIM 8.0

EC001439 -
Timer relay