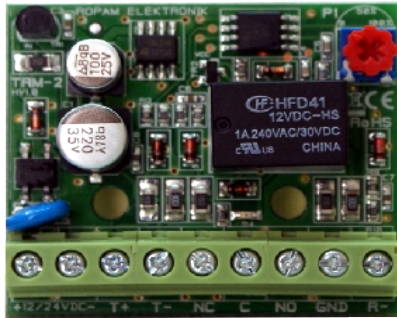




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## Installation and Operating Manuals

# TRM-2

Time relay module,  
single-function, with „doorway” control,  
with relay type output



### 1. Features:

- supply voltage 9V÷30V/DC or 8V÷26V/AC
- relay output R: C/NC/NO (SPDT)
- timing adjustment output 1s-31s
- trigger input T- (-U)
- trigger input T+ (+U)
- R- input for control „doorway”
- easy to use and installation
- small dimensions
- LED indication

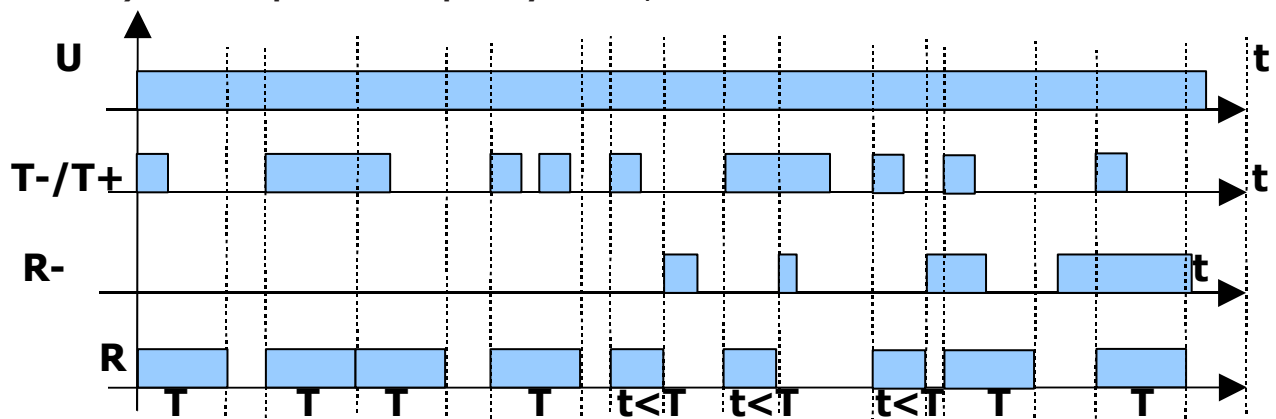
### 2. Applications:

As time systems in electric low-voltage circuits of alarm (detectors bypassing) and access control (electromagnetic lock) systems, in automation systems, etc.

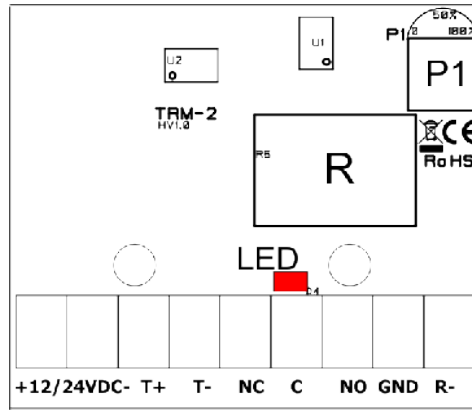
### 3. Description:

The supply voltage U must be applied to the time relay continuously. After the control input T- or T+ has been closed, the output relay R (C/NC/NO) switches immediately. After opening of the control input T- or T+ measurement of the preset time T starts. After the preset time T has lapsed, the output relay R returns to the initial position. In course of the time T measurement the control input T- or T+ may be repeatedly closed and opened with no influence upon the output relay R. It is only after the time T has lapsed that closing of the control input T- or T+ causes switching the output relay R on again and measurement of the time T.

**If the control contact REED is switched on, the time T measurement will be interrupted (time T will be finish). The R- input has first priority than T-, T+.**

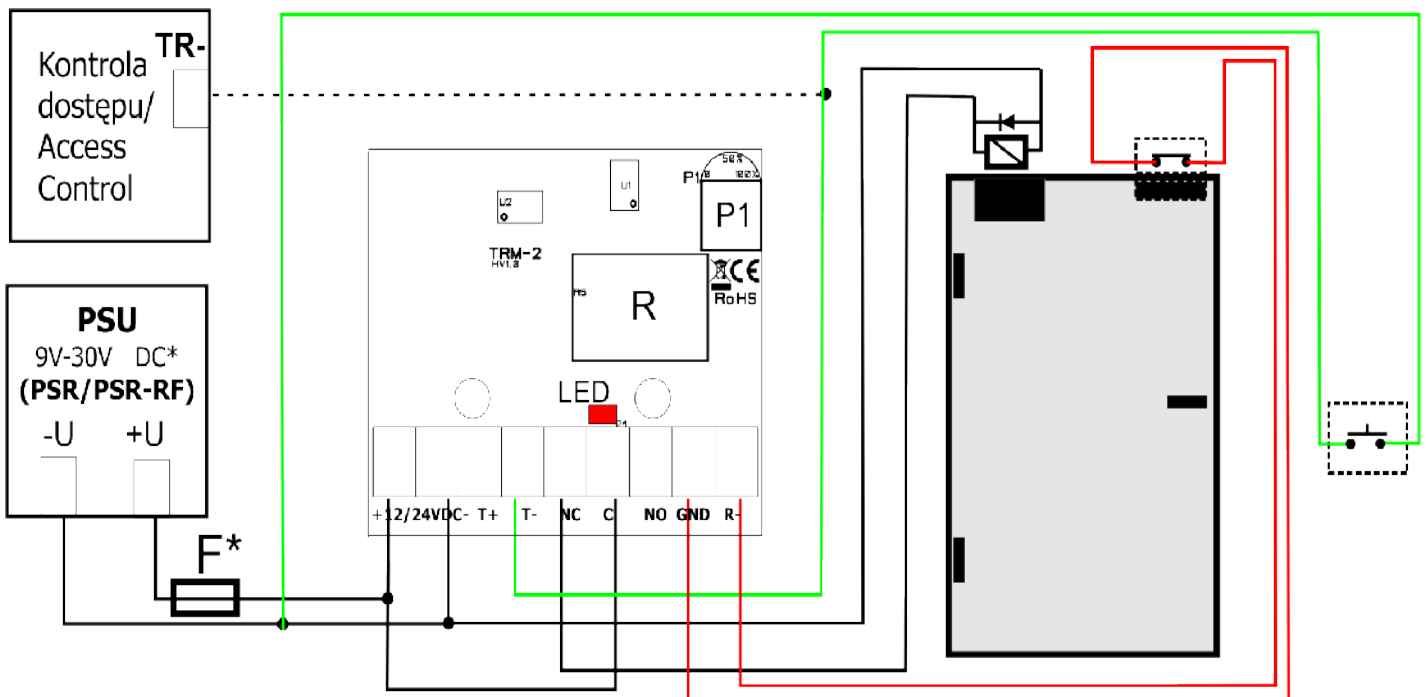


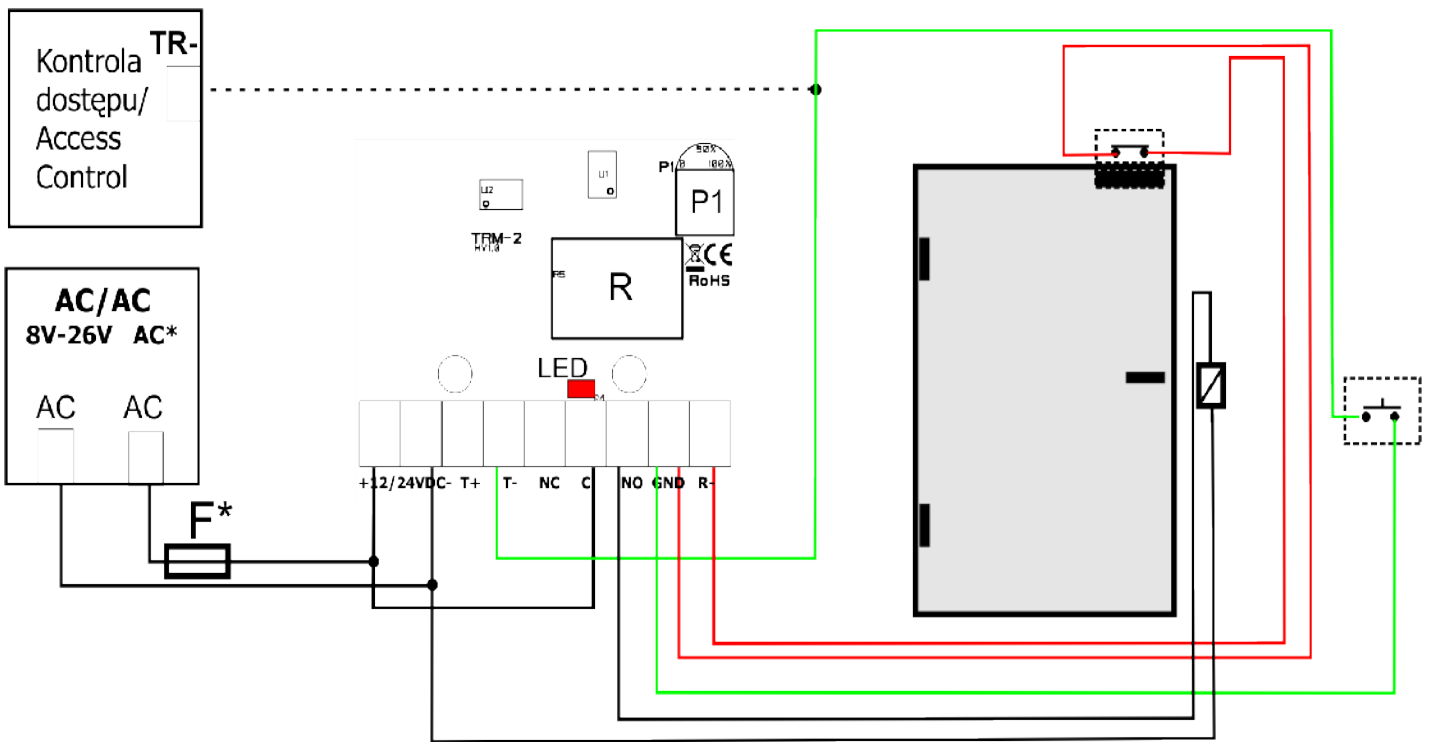
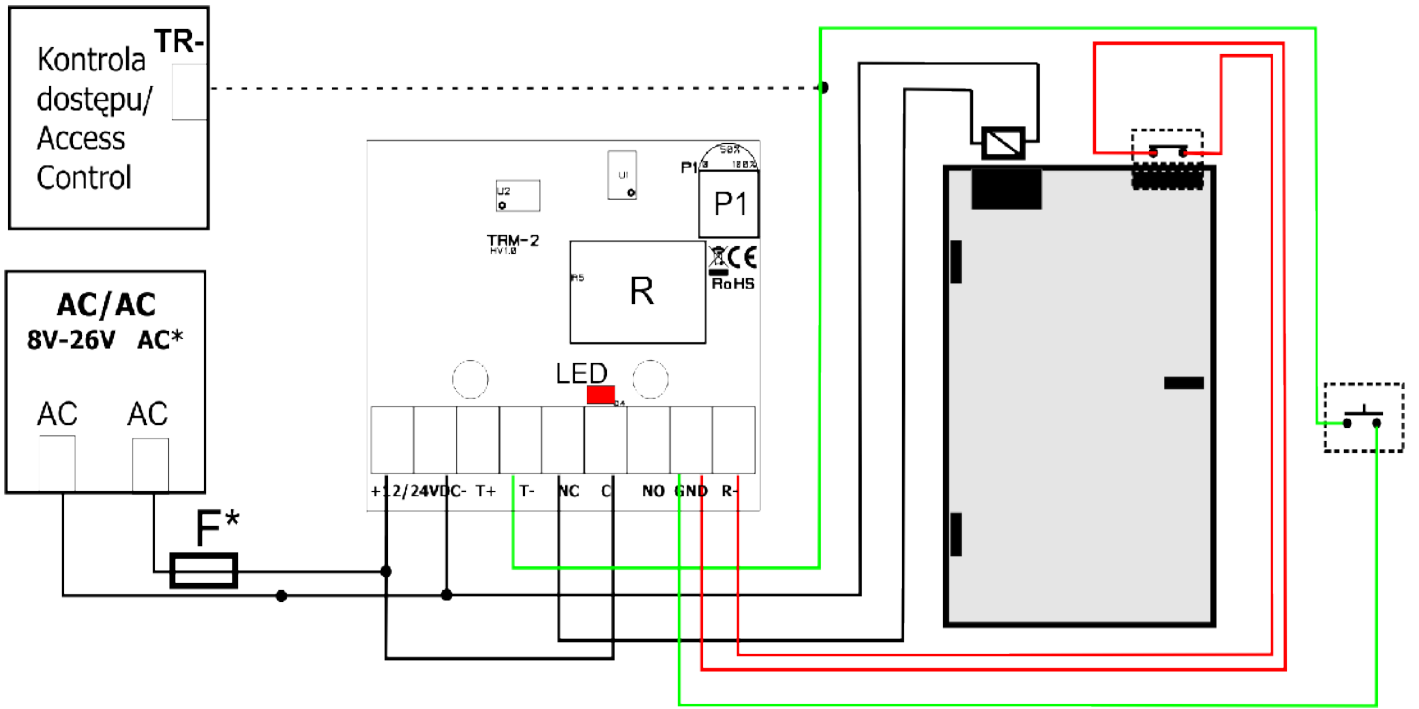
#### 4. Board components and connectors description:



<b>+12/24VDC-</b>	power supply input 9V÷24V/DC or 8V÷26V/AC (II class)
<b>T-</b>	trigger input by supply voltage -U (start the time T measurement)
<b>T+</b>	trigger input by supply voltage +U (start the time T measurement)
<b>NC/C/NO</b>	relay outputs: NC- normally-open terminal of relay R C- common terminal of relay R NO- normally-closed terminal of relay R
<b>R- , GND</b>	input for reset time T, trigger by short R- <-> GND The R- input has first priority than T-, T+.
<b>P1</b>	time T adjust 0%= 1s, 100%=30s., (Tmin=1s/Tmax=31s.)
<b>LED</b>	LED (red ) signalling status output relay R - steady light= output R is activate (Ron) - no light= output R is initial position (Roff)

#### 5. Typical application:





**\* PSU, AC/AC: required short-circuit protection (SCP) max.1,5A (or fuse F1,5A)**

## 6. Technical parameters:

<b>Power supply voltage U</b>	U <sub>dc</sub> = 9V÷30V/DC U <sub>ac</sub> = 8V÷26V/AC min/max
<b>Output R: NC/C/NO</b>	1A max. @30VDC/50VAC relay type, C/NO/NC (without short-circuit protection)
<b>Input T-</b>	trigger by short to -U/GND, reaction time 100ms. R <sub>max</sub> =200 Ohm
<b>Input T+</b>	trigger by short to +U, reaction time 100ms. U=9V÷30V/DC
<b>Input R-</b>	trigger by short to R- to GND, reaction time 100ms. R <sub>max</sub> =200 Ohm
<b>Current consumption (without output R)</b>	10mA @12VDCmax. (przełącznik nieaktywny) 30mA @12VDCmax. (przełącznik aktywny)
<b>Timing adjustment T, P1</b>	1s-31s (0%-100%), +/-1% , (T <sub>min</sub> =1s/T <sub>max</sub> =31s.)
<b>Indication of operation</b>	LED, status of output R, steady light=R relay lapsed
<b>Operating environment</b>	I class, +5°C÷+45°C , RH=93% max. without condensations
<b>Fitting</b>	mounting pins x2, with adhesive tape
<b>Dimensions (W x L x H)</b>	46 x 40 x 25 [-/+1] [mm]
<b>Weight</b>	~20 [g]

### Producent:

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#### WEEE MARK

The used electric and electronic products, do not mix with general household waste. There are separate collection system for used electric and electronic products in accordance with legislation under the WEEE Directive (Directive 2002/96/EC) and is effective only with EU.