



Order code

## TM M1 NFC

- Multifunction, multiscale and multivoltage time relay with NFC technology and App
- Hour counter
- Counter
- Auxiliary power supply: 12...240VAC/DC
- Time of scale range: from 0.1 seconds to 999 days
- 1 relay output with changeover contact, 8A 250VAC
- DIN43880 modular housing (1 module), suitable for mounting on 35mm DIN rail
- Certifications: cULus, EAC
- QR code on front for direct access to the website [www.LovatoElectric.com](http://www.LovatoElectric.com) to download the technical manual.

### EXTENSIVE SET OF TIMER FUNCTIONS

#### 40 available functions

On delay, off delay, flasher (pause-work), pulse generator, ON-OFF trigger, watchdog, pulse on relay energising at contact opening or closing, analog filter, etc.

Several variants of the above functions are also available, including the possibility to pause timing and reload or reset the counting by closing an external contact.

### FULLY INTERCHANGEABLE

#### with traditional potentiometer versions

The many functions integrated in the TM M1 NFC include those of the following potentiometer-based timers:

- TM M1 (multifunction)
- TM P (on delay)
- TM PL (recycle with independent timings)

Terminal numbering identical to potentiometer versions makes the TM M1 NFC fully interchangeable without having to modify connections.

### EXTERNAL COMMAND INPUT

The TM M1 NFC incorporates a command input (S) that can be connected to an external contact for one of the following functions:

- start of timing function;
- pause of timing;
- reset of timing.

### 3 PRODUCTS IN ONE

**Timer:** can perform any of 40 available timing functions.

**Counter:** simultaneously with the timing function, a threshold can be set for the number of times the timer output closes. When this threshold is reached, the TM M1 NFC deactivates the function for which it is programmed. The timer must then be switched off and back on to reset the counter and restart.

*Possible applications:* counting pieces passing under a photocell or controlling the activation of a turnstile with a limited number of accesses, etc..

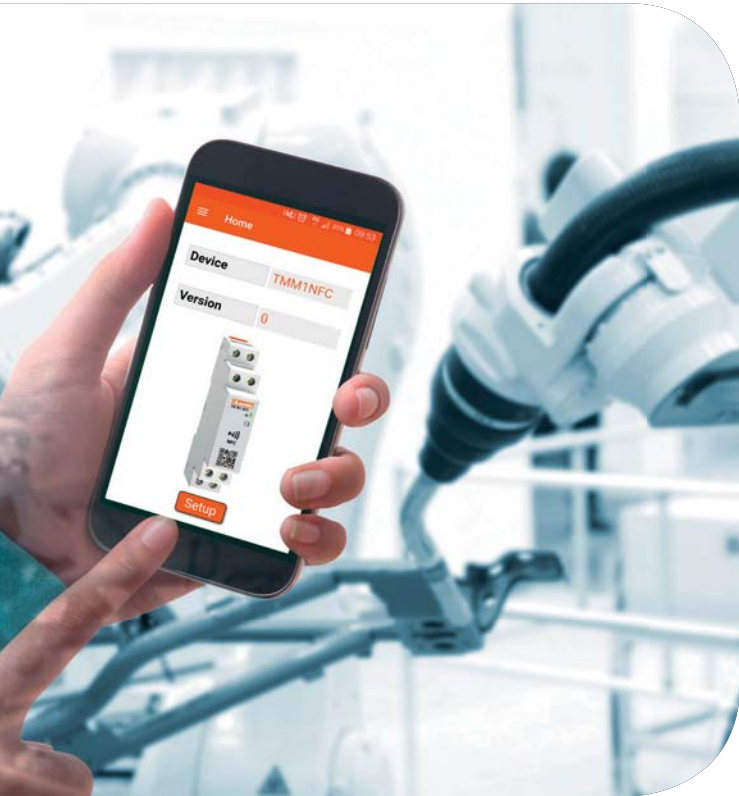
**Hour counter:** the TM M1 NFC can be used to count the hours for which a machine functions. The hour count is saved in the unit's internal memory (non-volatile) and an output contact is energised to signal that the programmable threshold has been reached. The LOVATO NFC App permits monitoring of the value of the hour counter.

*Possible applications:* signalling a request of maintenance of a machinery after a certain number of working hours.

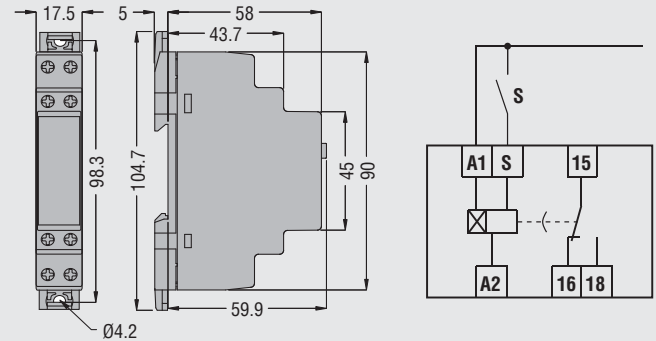
### RESET MODE

In the case of functions activated by the external command input (S), a parameter can be set to establish the method of resetting the function, i.e. the condition necessary for re-starting the function after its first execution. Two options are available:

- **input (INP):** the function is re-performed every time the command input (S) is closed;
- **power (PWR):** after the first execution of the function, the time relay locks out and the function is no longer executed (new closures of the command input are ignored). The time relay must be powered off and on again to restart.

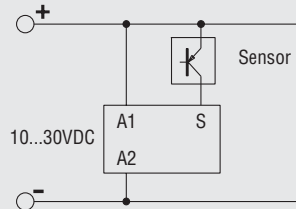


## DIMENSIONS AND WIRING DIAGRAMS



### COMMAND WITH STATIC OUTPUT

Connection to a sensor with PNP output



Connection to a sensor with NPN output

