

## PANEL MOUNT TIMER ANALOGUE

Analogue 48x48mm

88886516

Timer TMR48L Recycling 12-240V dc / 24-240V ac

- Single or multi function
- Time range 0.02 sec – 300 hrs
- Wide voltage range 12-240V
- 2 x relay outputs



### PRODUCT DESCRIPTION

What is a timer?

A timer is a simple automation component which is used to manage actions over a period of time or control how long actions last. The timer is a control device which triggers an action according to a time and a function. After a predefined time has elapsed, the timer closes or opens one or more contacts.

Timing cycles, whether single shot or repetitive, are started by latching inputs or pulsed inputs, allowing a wide variety of functions to be created.

To execute which actions?

A timer can be used to trigger an action according to a predefined time. It can also be used to stagger actions over a period of time.

In any time-related application, the timer can play a role and can be used to:

- Run installations according to times that can be adjusted by the user.
- Calibrate a machine running time.
- Allow or prevent an action.
- Delay an action.
- Manage stopping/starting of a motor, pump, etc. (star delta).
- Make an LED flash.

Crouzet timer features;

- Available in mono- or multifunction versions (analogue or digital, with or without latching), to meet the specific needs of each application.
- A timing range of up to 9,999 hrs to cope with prolonged processing operations.
- A range of power supplies from 12 to 240 V in one unit for optimised stocks.
- Recognised quality and reliability ensures the correct operation of equipment.

Where are they found?

In electrical cabinets associated with other automation products for the following markets;

- Food industry
- Industrial automation systems
- Lighting
- Building equipment
- HVAC
- Small or large industrial machines

Packaging;

Controlling heat sealing times on blister packs, packing bags etc. (MUR1, MXR1)

Illuminated signs;  
Managing flashing on automated signs. (TMR48L)

Fans;  
Time management for delay start up or shut down. (S-Series, TMR48, Timer 81X)

Heat pumps;  
Managing compressor start up (anti-short cycle). (S-series timer)

Ice maker;  
Managing the duration of refrigeration. (TUR1)

Vending machines;  
Time management of product delivery. (TMR48, Timer 81X)

Lighting for mobile homes;  
Managing the duration of outdoor lighting of a mobile home if the light switch is left on. (MXR)

Machine tools;  
Control of maintenance periods. (TMR48, Timer 81X)

Sensing on assembly lines;  
Managing the operation between a conveyor belt based on the time interval between productions on the belt. (MCR1)

Remote machinery;  
Managing maintenance of the power supply in the event of a mains power failure, switching on an external back-up power source at a given time. (TK2R1)

## TECHNICAL DATA

<b>Approvals</b>	CE, CSA, UL
<b>Breaking capacity</b>	2000 VA
<b>Current max</b>	5 A
<b>Function</b>	L, Li
<b>IP class front</b>	IP50
<b>IP class housing</b>	IP40
<b>Mounting</b>	11-pin socket, Panel mount
<b>Multi-function</b>	No
<b>Output</b>	Relay 2 pole C/O
<b>Pulse at gate min</b>	60 ms
<b>Pulse at reset min</b>	60 ms
<b>Repeatability</b>	0,5 %
<b>Storage temperature max</b>	70 °C
<b>Storage temperature min</b>	-40 °C
<b>Supply voltage</b>	12-240V DC / 24-240V AC
<b>Switching current max</b>	5 A
<b>Temperature operational max</b>	50 °C
<b>Temperature operational min</b>	-20 °C

