The basics

A timer

How can it be defined in simple terms?

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.

A timer

To execute which actions?

Triggering, Actuating
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.

Delaying, Flashing
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**.

Triggering

Actuating

Delaying

Flashing

In addition to this catalogue, the **www.crouzet.com** website offers technical data sheets and installation manuals for each product, available as free downloads.

Crouzet timers
A panel mounted range and a DIN rail mounted range

Setpoint settings

Mode

Reset + enable

815 timer

Timing range 1

Time setting 1

Timing range 2

Time setting 2

Power supply LED

MLR1

Crouzet timers
Their features:

- Available in **mono-** or **multifunction** versions (analogue or digital, with or without memory), 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 supply voltages** from 12 to 240 V in one unit for optimised stocks.

- Recognised **quality** and **reliability** ensures the correct operation of equipment.
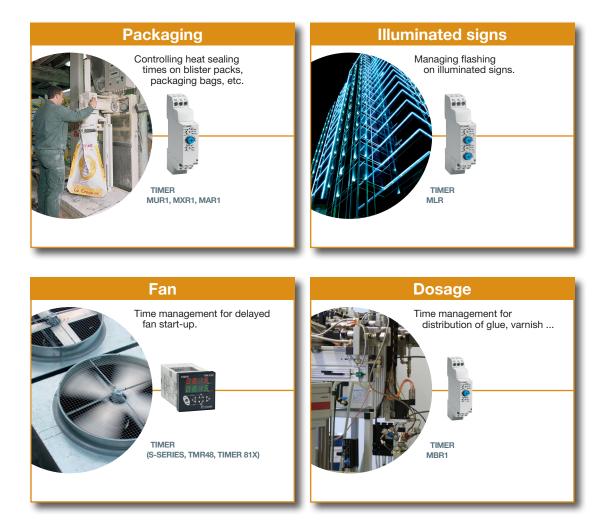
Applications

Crouzet timers
Where are they found?

In electrical cabinets associated with other automation functions 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, packaging bags, etc.

TIMER
MUR1, MXR1, MAR1

Illuminated signs

Managing flashing on illuminated signs.

TIMER
MLR

Fan

Time management for delayed fan start-up.

TIMER
(S-SERIES, TMR48, TIMER 81X)

Dosage

Time management for distribution of glue, varnish ...

TIMER
MBR1

Ice maker

Managing the duration of refrigeration.

**TIMER
TUR1, MUR1, MAR**

Drink vending machine

Timed management of delivery of drinks.

**TIMER
TMR48, TIMER 81X**

Lighting for mobile homes

Managing the duration of outdoor lighting of a mobile home if the light switch is left switched on.

**TIMED IMPULSE RELAY
MXR**

Machine tools

Control of maintenance periods.

**TIMER
TMR48, TIMER 81X**

Sensing on assembly line

Managing the operation of a conveyor belt based on the time interval between products on the belt.

**TIMER
MCR1**

Remote machinery

Managing maintenance of the power supply in the event of a mains power failure, switching on an external backup power source for a given time.

**TIMER
TK2R1**