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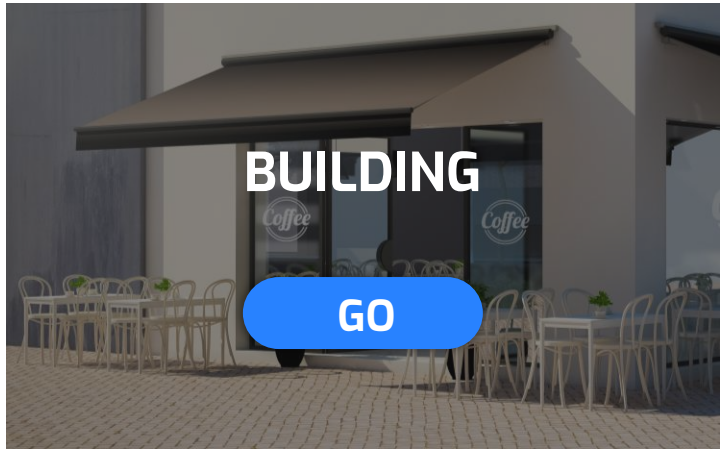
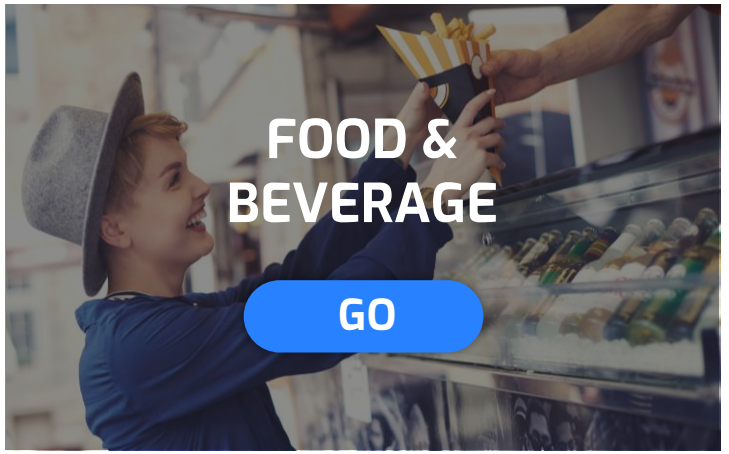
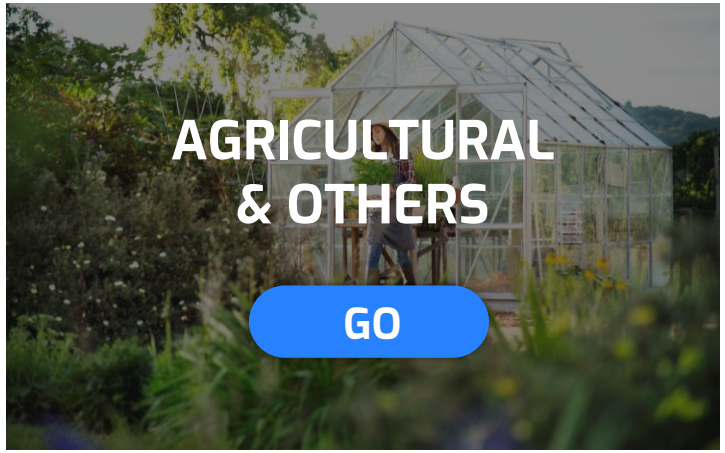
MILLENIUM SLIM APPLICATION EXAMPLES

NEXT


BUILDING
GO


INDUSTRIAL
GO


FOOD &
BEVERAGE
GO


AGRICULTURAL
& OTHERS
GO


FUNCTION
PROGRAMS
GO


PRODUCT
EQUIVALENCES
GO

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Building Applications

Unlimited Application Possibilities

Test your imagination!

BACK NEXT

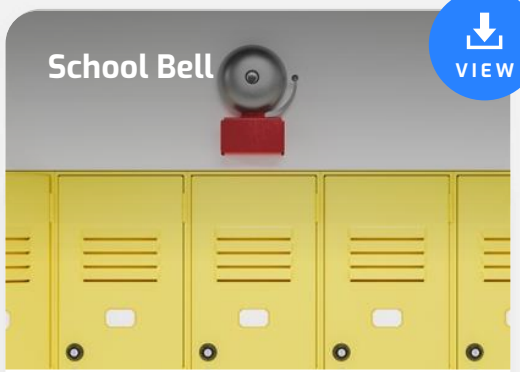
Exterior Lighting

VIEW

Door and garden lights are switched on at specific times of the day, if someone is in front of the door or manually with a switch.

School Bell

VIEW



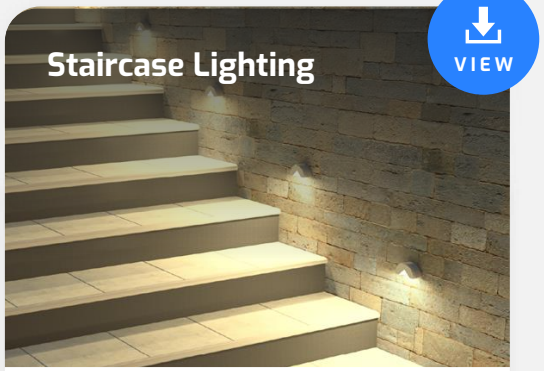
A school bell is switched on for a certain time, at specific hours during the week and at a different time during specific dates or seasons.

Gates / Barriers

Control access of a building by using an automatic gate or barrier, as well as counting the number of vehicles or people crossing them.

Staircase Lighting

VIEW



When pressing a button, lights are switched on and a timer is engaged, it will allow to reach the destination before extinguishing the lamps.

Heat Pump

While measuring fluid temperatures, provide control of heating & cooling operation, calendar-based function, frost protection mode and others.

Bathroom Ventilation & Hand Dryer

Ventilation starts when the lighting is ON but continues after shutdown. Hand dryers start if you hit the button and shuts off after 15 seconds.

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Building Applications

Unlimited Application Possibilities

Test your imagination!

BACK

Boiler Sequence

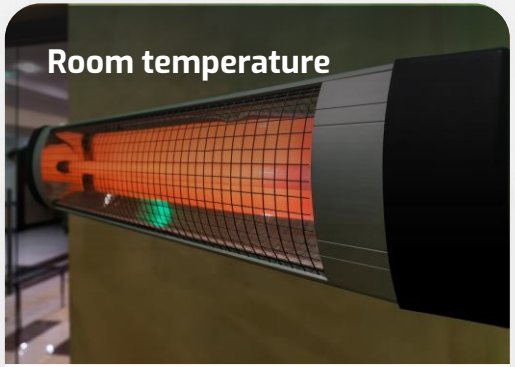
Staging of boilers after indication of a thermostat of the temperature at which the boilers needs to be switched on and off.

Automatic Shutters

Millenium Slim can be used for simple roller shutter control that requires scheduler and two-button manual control (open / close).

Pools & fountains

Manage circulation pumps for water filling, filtration, as well as monitoring of level, temperature and water conductivity.



Room temperature

Regulate the ambient temperature of a room, that is controlled by a heating resistor in “heat mode” and only by a fan in “cool mode”.

Air Curtains

Measure windspeed, as well as temperature with NTC inputs inside and outside, in order to drive the heaters and fans used in air curtains.

HVAC Systems

Staging of compressors or to allow the fans to continue to operate after the thermostat is satisfied, in order to purge the ducts of conditioned air.

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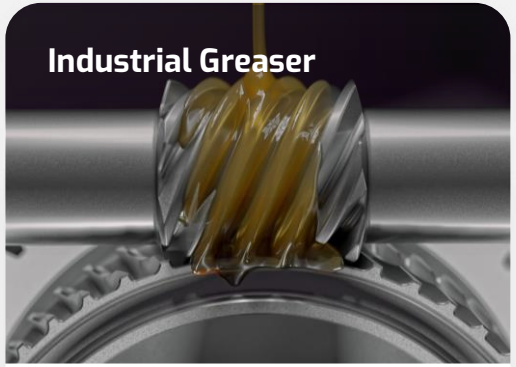
Industrial Applications

Unlimited Application Possibilities

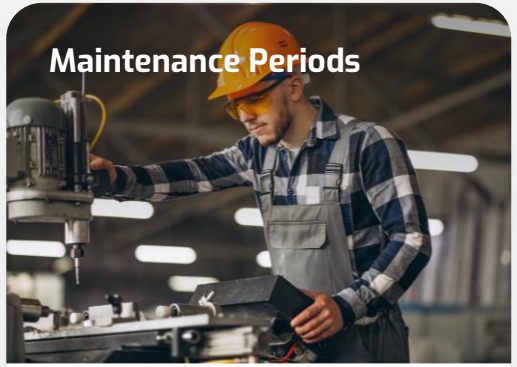
Test your imagination!

BACK NEXT

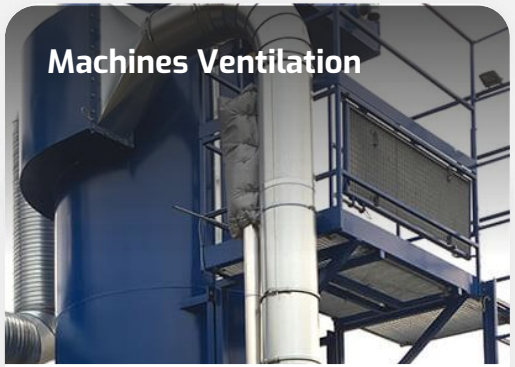
A conveyor is carrying products to be packed, it needs to stop after after a batch of a certain number of products is detected.



An industrial greaser used in a production line will use a lubrication piston with a digital output or a valve with a PWM output.

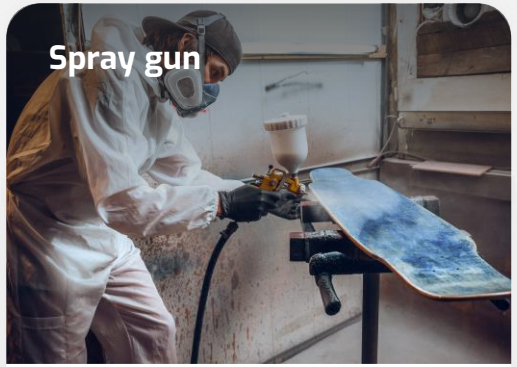


Differents machines in the industry will need to run maintenance after certain number of hours worked and other parameters.



To continue an exhaust fan after the shut down of a machine or to control a solenoid air valve in a fabric dust collector system.

Control of the positioning solenoid in thread winding machines, permitting operator-adjusted spacing between individual wraps of thread.



Millenium Slim solid-state version can be used to control the repetitive "on" time needed in an industrial spray gun.

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Industrial Applications

Unlimited Application Possibilities

Test your imagination!

BACK

Industrial Washing Machine

Millenium Slim can be used to control the cycles of 4 successive phases in "on" mode: pre-wash, wash, dry and stand-by.

Vacuum forming packaging machine

Millenium Slim can be used in packaging in order to controls cycling in vacuum forming packaging machines.

Light signal column

Millenium Slim Solid-State version can manage the flashing on light signal columns in order to make the lamp blink with equal ON/OFF times.

Air Filtration for Indoor Welding Stations

Monitor the air filter and read the differential pressure to control the back pulsing of the filter to dislodge buildup to ensure proper air safety.

Spot gluing

Millenium Slim can be used to control the timing that allows the correct spot gluing depending on the products on the production line.

Heat Sealing

Millenium Slim solid-state version can be used to control heat sealing times on blister packs, packaging bags, etc.

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Food & Beverage Applications

Unlimited Application Possibilities

Test your imagination!

BACK

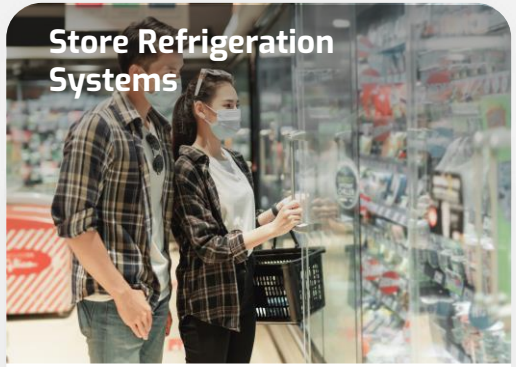
Condiment Dispenser

Millenium Slim can be used to control how much ketchup, mustard or mayonnaise comes out of the dispensing machine.

Food Stand

Millenium Slim can be used to control the temperature in food stands to maintain food warm or cold, by using a temperature sensor.

Store Refrigeration Systems



Staging of refrigeration compressors so refrigerant pressures do not drop in different zones during regulation of temperature.

Ice Cube Makers

Read and control the temperature of the machine, besides managing the duration of refrigeration to produce the ice cubes.

Food Waste Disposers

Millenium Slim can be used to do the driving and turning of the shutters used in food waste disposers and dewatering systems.

Baking Ovens

Millenium Slim solid-state version can be used to control small baking ovens thanks to its PWM outputs for blowers' control.

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Agricultural Applications & Others

Unlimited Application Possibilities

Test your imagination!

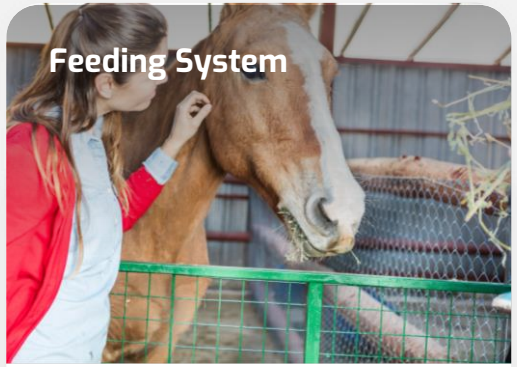
BACK

Green House

Measure the temperature, lightning & hygrometry of small green houses in order to control the irrigation, window opening and/or ventilation.

Solar Panel

Millenium Slim can be used for analysis & control of simple solar panel motorization that do solar tracking on 2 axis.



Feeding System

Millenium Slim can be used to control the animals' feeding systems in farms, to provide regular meals at specific schedules.

Irrigation System

Control the water pumps, manage watering scheduler & liquid fertilizers and measuring the temperature and ground humidity.

Portable Firefighting Pumps

Control the portable pumps that supply the firefighting water, measuring the signal of a level sensor and pressure sensor.

Advertising

Millenium Slim can be used to control the lighting and time synchronization necessary in advertising panels.

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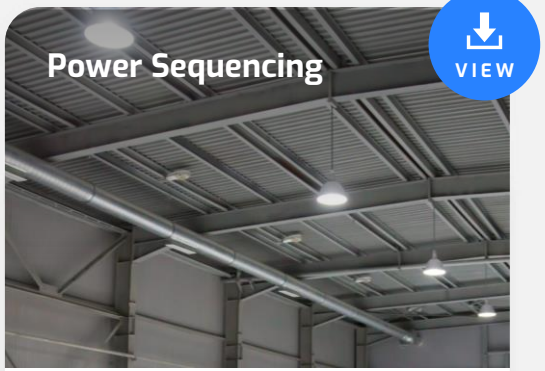
Function Programs

Unlimited Application Possibilities

Test your imagination!

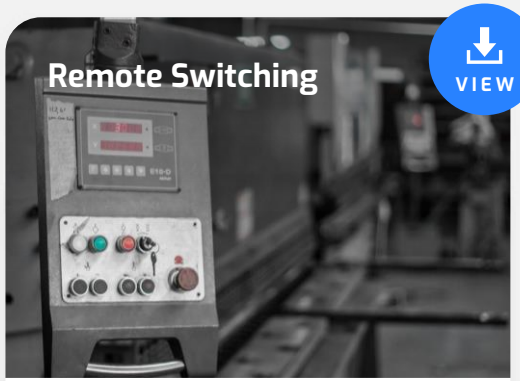
BACK



Power Sequencing

VIEW

Loads that needs to be switched on / off in sequence to avoid overcharge a system by connecting a group of loads to the power supply.



Remote Switching

VIEW

Millenium Slim can be used to wirelessly switch loads that are some meters at a distance thanks to its Bluetooth capabilities.

Bluetooth Data Exchange

Millenium Slim can be used to wirelessly exchange data to other applications that are some meters at a distance via Bluetooth.

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Product Equivalence

***Millenium**Slim* is a highly-configurable pocket-size logic controller that replaces dozens of control panel products

The perfect companion for your toll crib!

BACK NEXT

Weekly Timer

VIEW

Millenium Slim can be used as a weekly time programmer, that help us to activate an output at specific hours each day of the week.

Multifunction Timer

VIEW

Millenium Slim can be used as multifunction timer to do functions like A (ON-Delay), B (One Shot), C (OFF-Delay) and H (Interval)

Staircase Timer

VIEW

When pressing a button, lights are switched on and a timer is engaged, it will allow to reach the destination before extinguishing the lamps.

CAM Timer

Millenium Slim can be used as a cam timer also called drum sequencer, that help us to control a sequence of events automatically.

Preset Counter

VIEW

Count a signal until the present value reaches a preset value, and then it activates a control output to operate an output device.

Data Logger

Millenium Slim can be used as a datalogger thanks to its capacity to store data in .cvs (excel) format of different parameters.

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Product Equivalence

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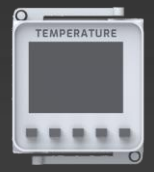
The perfect companion for your toll crib!

BACK

Temperature Controller



Millenium Slim can accept NTC probes to take the temperature as input, compare it with a desired value and then provide an output.

Temperature-PWM Converter

Millenium Slim can accept NTC probes to take the temperature as input, then convert it to a PWM signal to transfer to another device.

Voltage-PWM Converter

Millenium Slim can accept analog values as input, then convert them to a PWM signal to transfer to another device.

Dimmer

Millenium Slim can accept analog values as input, then convert them to a PWM signal in order to control the light intensity as a dimmer.

Pump Alternating

Millenium Slim can be used as an alternator, that will assure that 2 or more pumps are used for the same amount of time by alternating them.

Current Monitoring

Millenium Slim can accept as an input the voltage output of a current transformer in order to work as a current monitoring device.

Batch Counter

***Millenium**Slim* can be used as the brain of a conveyor that is carrying products to be packed. You will get a signal after a batch of X products are detected by a proximity sensor, and/or X number of batches are counted.

DOWNLOAD HERE THE APPLICATION PROGRAM

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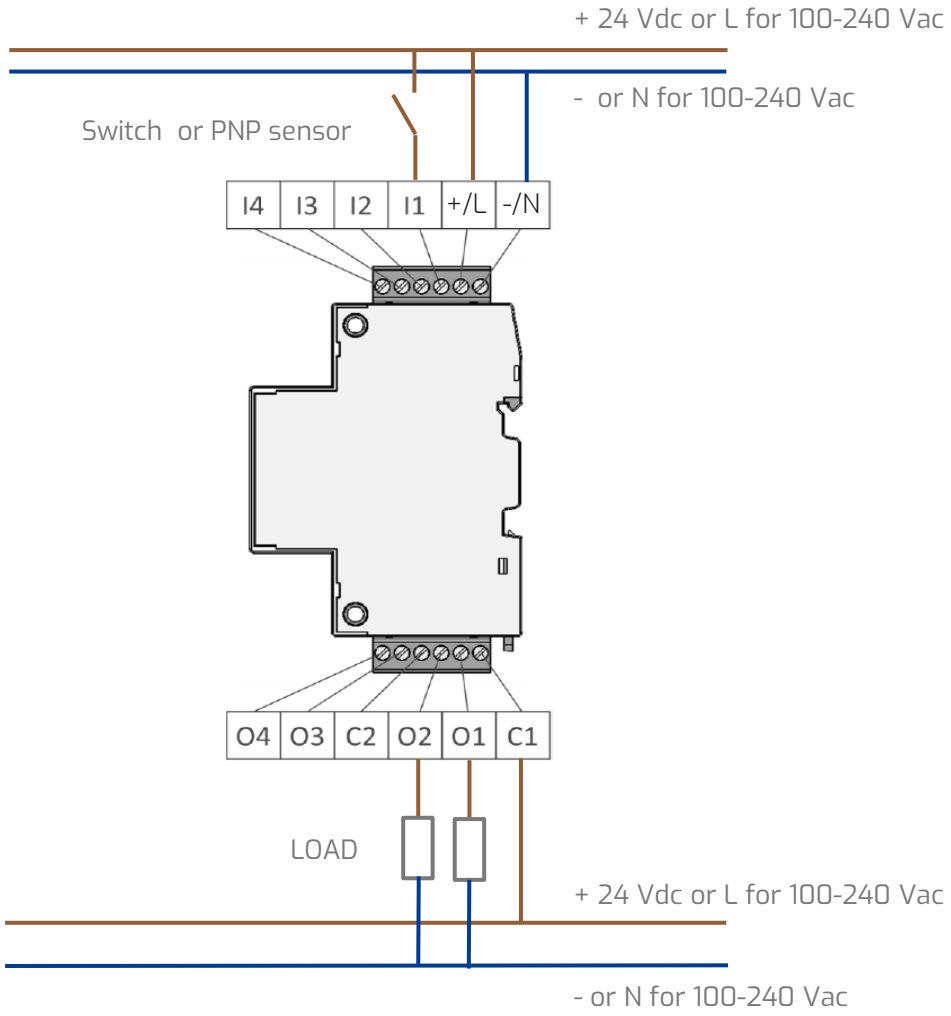
Wiring Diagram



Components List

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 88983903  88983901  88983902

- **1x 24 VDC Power supply** if a 24 VDC version of Millenium Slim is used. Crouzet recommended part numbers:

 89451001  89451003  89451006  89451010

- **Limit switch or PNP sensor**

Software & Program

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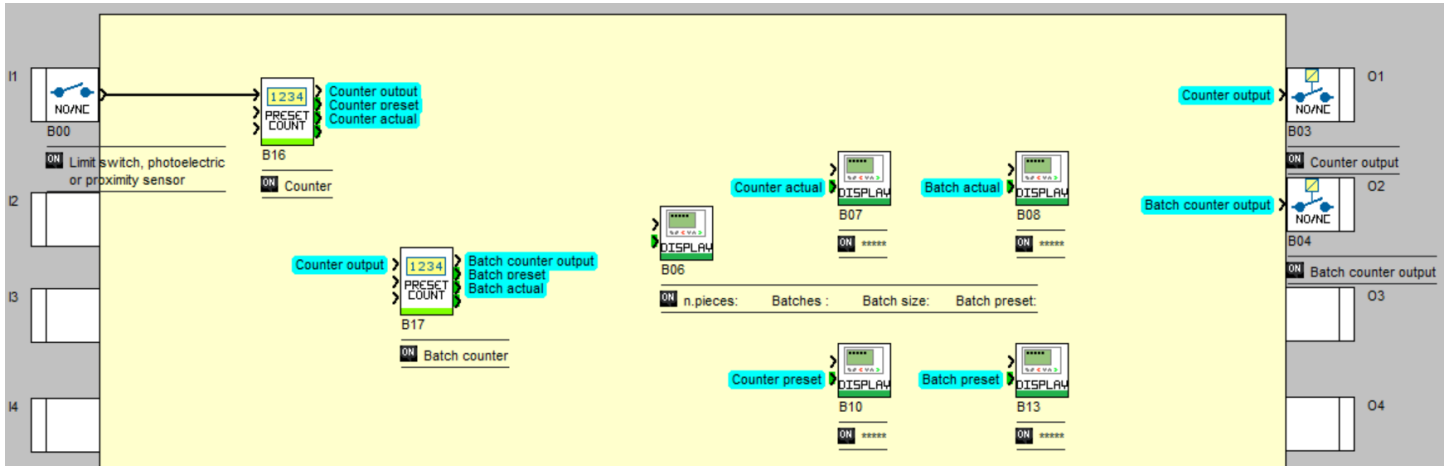

- The batch counter counts the pieces and generates an output signal each time a batch is done (output O1) and when the desidered number of batches is reached (output O2).
- A sensor (limit switch, photoelectric or proximity) must be connected on I1 to generate a pulse each time a piece is detected. Counter B16 counts the pieces and generates a pulse once the preset batch size is reached.
- This pulse triggers output O1 and increments counter B17 which counts the batches. Once the preset number of batches is reached output O2 is triggered. Pulse duration of O1 and O2 can be set inside counter B16 and B17. Each counter resets once the preselection is reached.
- To program the batch size and desidered number of batches move the cursor with the +/- arrow buttons to select the item to modify and pressing OK button to enable modification. Value can be changed with +/- arrow buttons once it is blinking. To confirm the value, press OK button.

Warning and Disclaimer of Liability

Example Program without Liability

BACK

General Warning

Unsafe operating conditions can cause controllers to fail, resulting in unchecked operation of controlled devices. Such hazardous events can cause death and/or serious injury and/or material damage. You must therefore provide an emergency stop function and electric or other redundant safety devices that are independent of your automation system.

Disclaimer of Liability

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Users are solely responsible for the correct operation of their Millenium Slim systems. This program does not relieve you of the obligation to observe safe practices during implementation, installation, operation, and maintenance.

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Exterior lighting

***Millenium**Slim* can help you control the outdoor lights of a building by controlling the door and garden lights. Lights are switched on at specific time of the day, if someone is in front of the door or manually with a switch.

DOWNLOAD HERE THE APPLICATION PROGRAM

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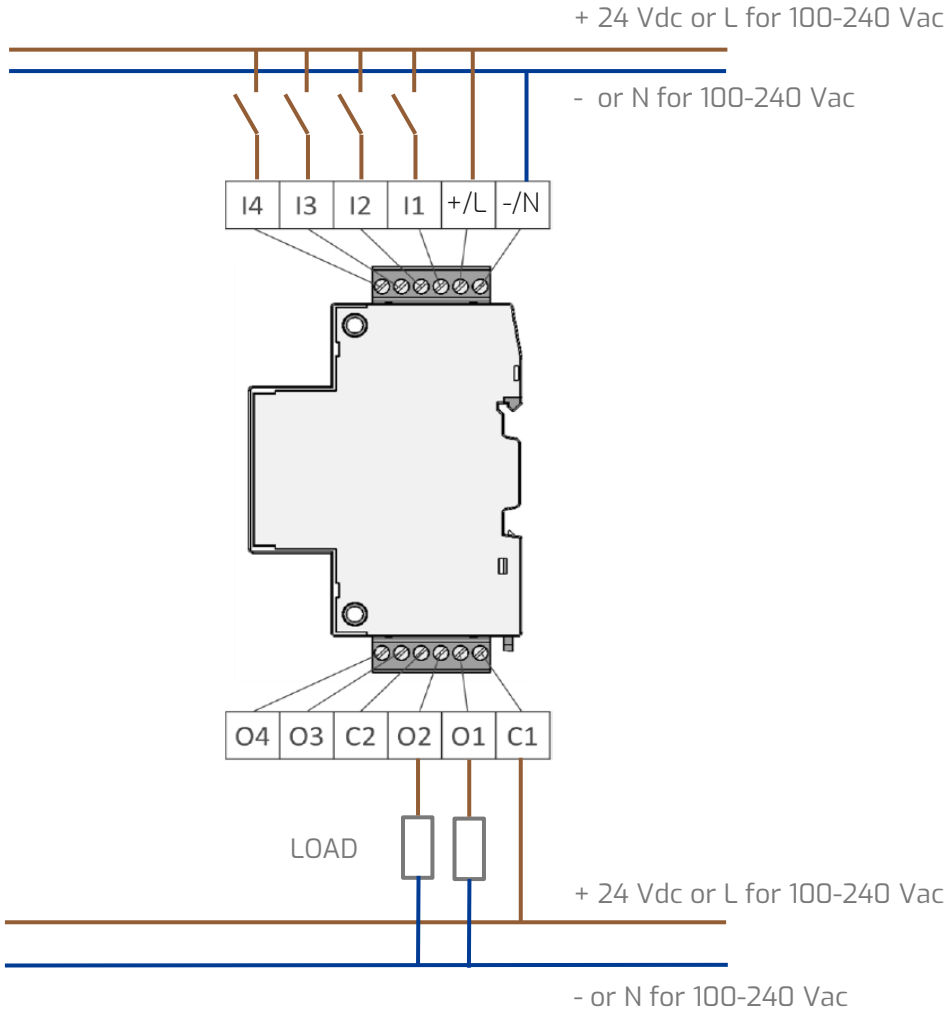
Wiring Diagram



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- **1x Motion sensor** (connected to I1)
- **1x Light sensor** (connected to I2)
- **2x Switches** (I3 for garden, I4 of door)
- **2x Contactors** (O1 for door, O2 for garden)

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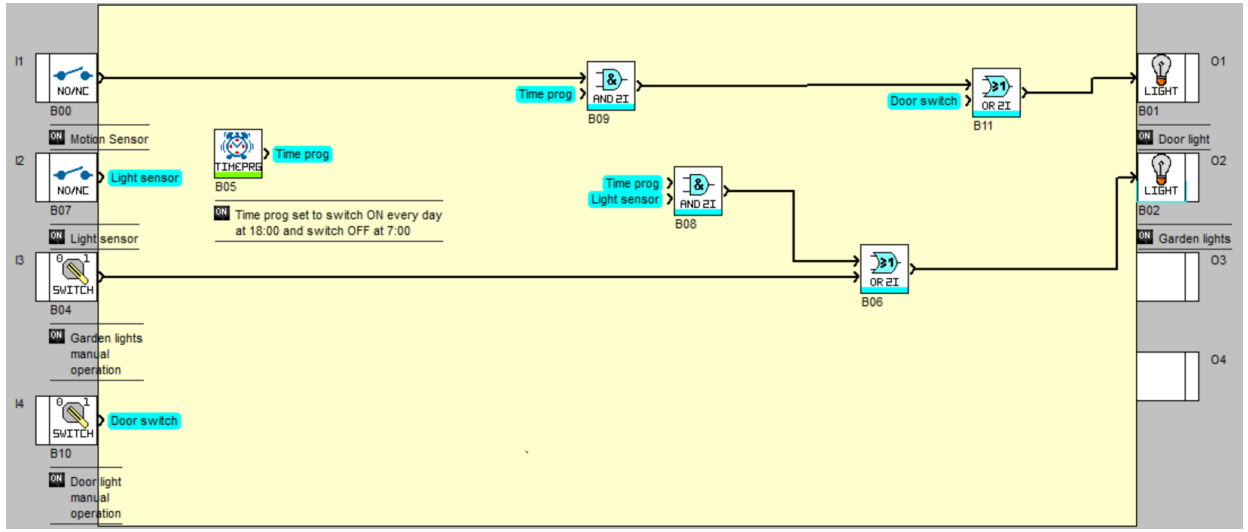

This example shows how to control the exterior lighting of a house by controlling the door and garden lights.

- Lights are switched on at specific time of the day (set in the Time Prog B05) if light sensor connected to I2 is activated (dark).
- An additional motion sensor connected on I1 switches ON the door light only if someone is in front of the door.
- Garden and door lights can be switched ON and OFF manually with a switch input I3 and I4.

Warning and Disclaimer of Liability

Example Program without Liability

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School bell

A school bell is switched on for a certain time, at specific hours from Monday to Friday. ***Millenium**Slim* can help to do this simple task, and even add more functionality as different timing during specific dates or seasons like school holidays

DOWNLOAD HERE THE APPLICATION PROGRAM

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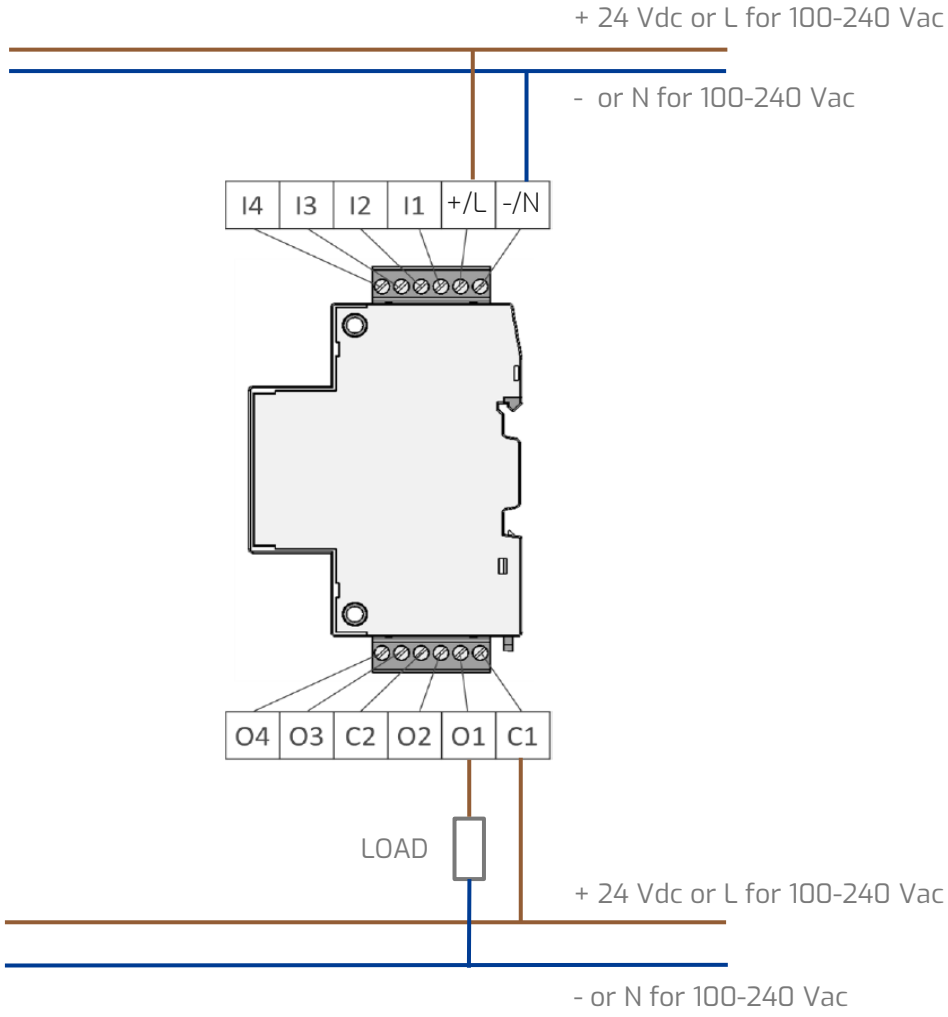
Wiring Diagram



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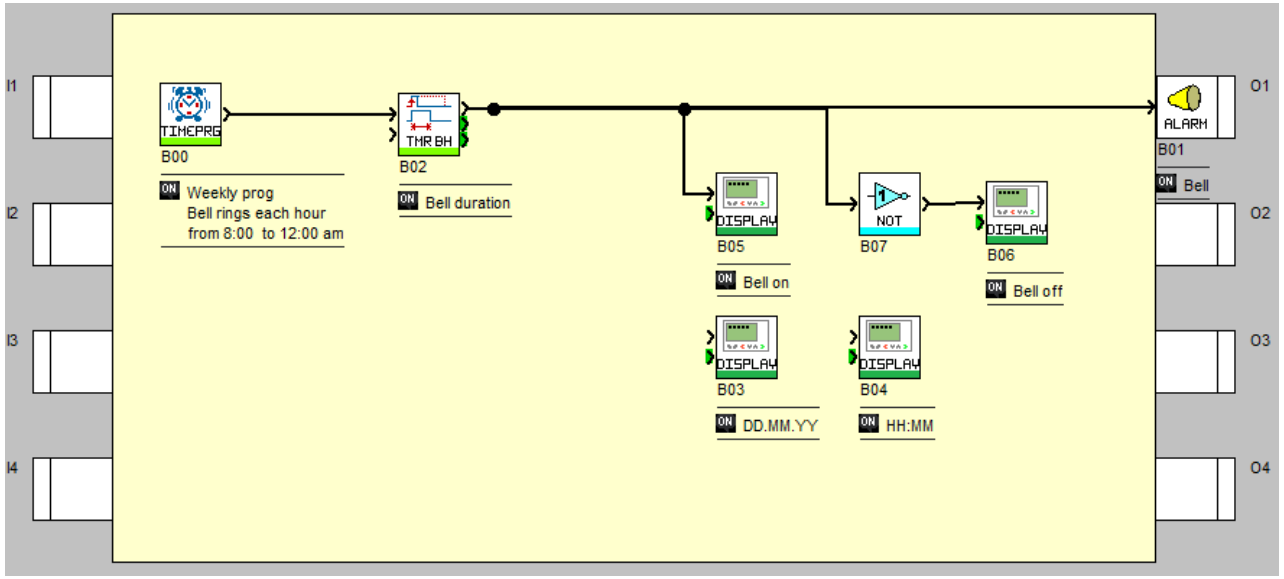

This program shows how to control a school bell using a time prog function block.

- Bell is switched on every hour (8:00 to 12:00 am) from Monday to Friday by the time prog B00.
- Bell duration is set by timer B02 which is triggered by the timer prog output (rising edge).
- On display date and hour are shown together with a message on bell status (on/off).
- Program can be expanded by adding additional time progs to switch off the bell
- during school holidays

Warning and Disclaimer of Liability

Example Program without Liability

BACK

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Power Sequencing

In some applications, like lighting or heating, loads needs to be switched on and off in sequence to ensure operational safety and reliability, in order to don't overcharge a system by connecting a group of loads to the power supply. This program allows to switch on and switch off 4 loads in sequence with a delay which can be set inside timers

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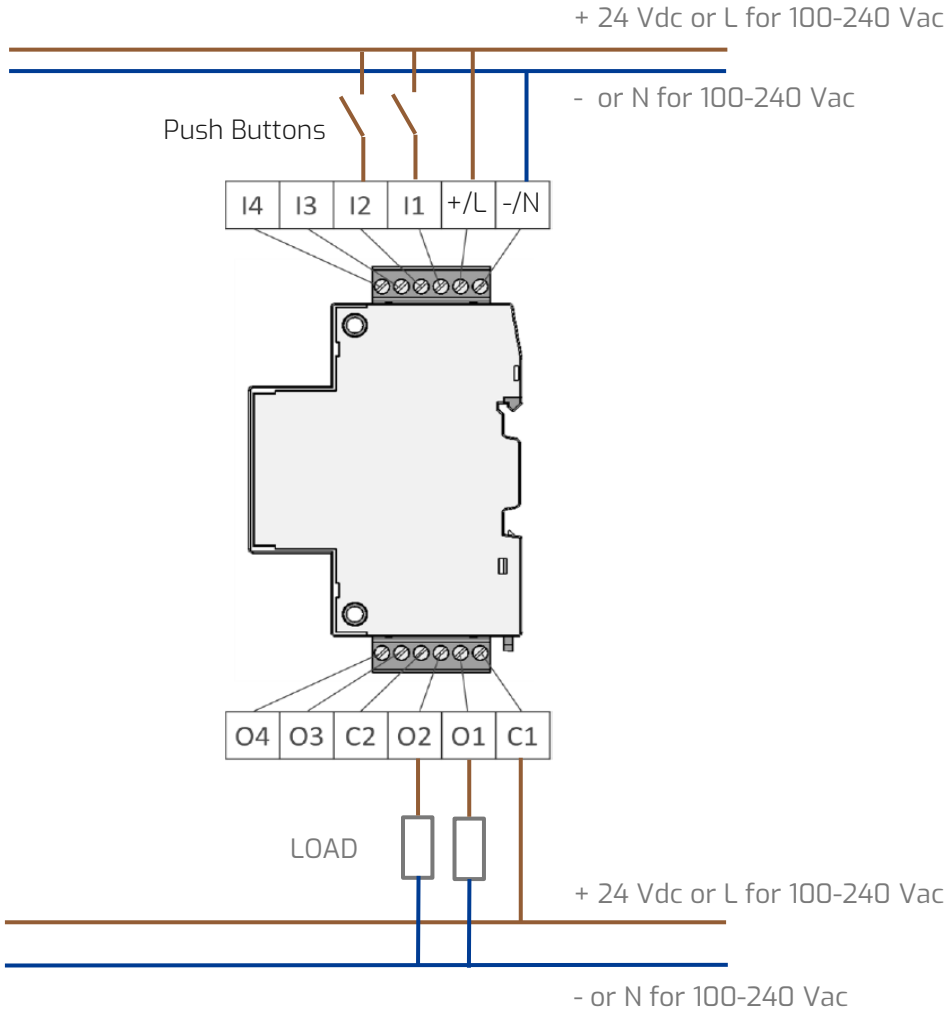
Wiring Diagram



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- **2x Push buttons**

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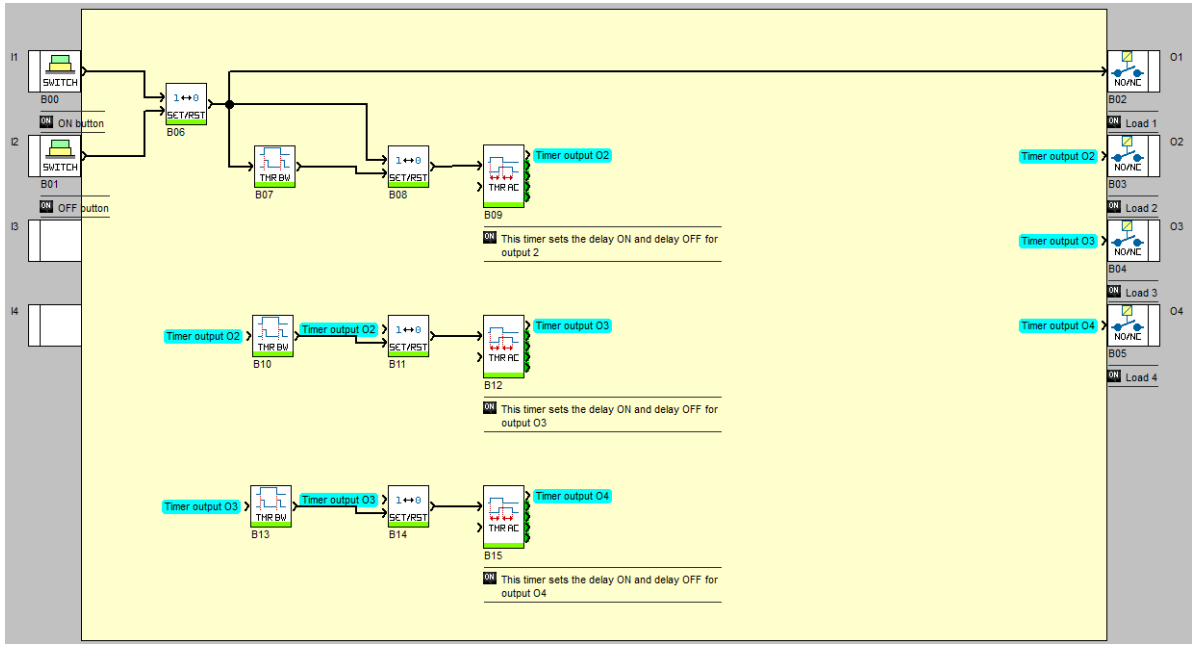

This program allows to switch on and switch off 4 loads in sequence with a delay which can be set inside timers B09, B12 and B15.

- Pressing and releasing the ON button on I1 triggers a Set/Reset which enables output O1 and start the sequence.
- Outputs from O2 to O4 are switched ON thanks to the A/C timers.
- Pressing and releasing the OFF button on I2 reset the Set/Reset disabling output O1 and starting the power OFF sequence for outputs from O2 to O4.

Warning and Disclaimer of Liability

Example Program without Liability

BACK

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CROUZET

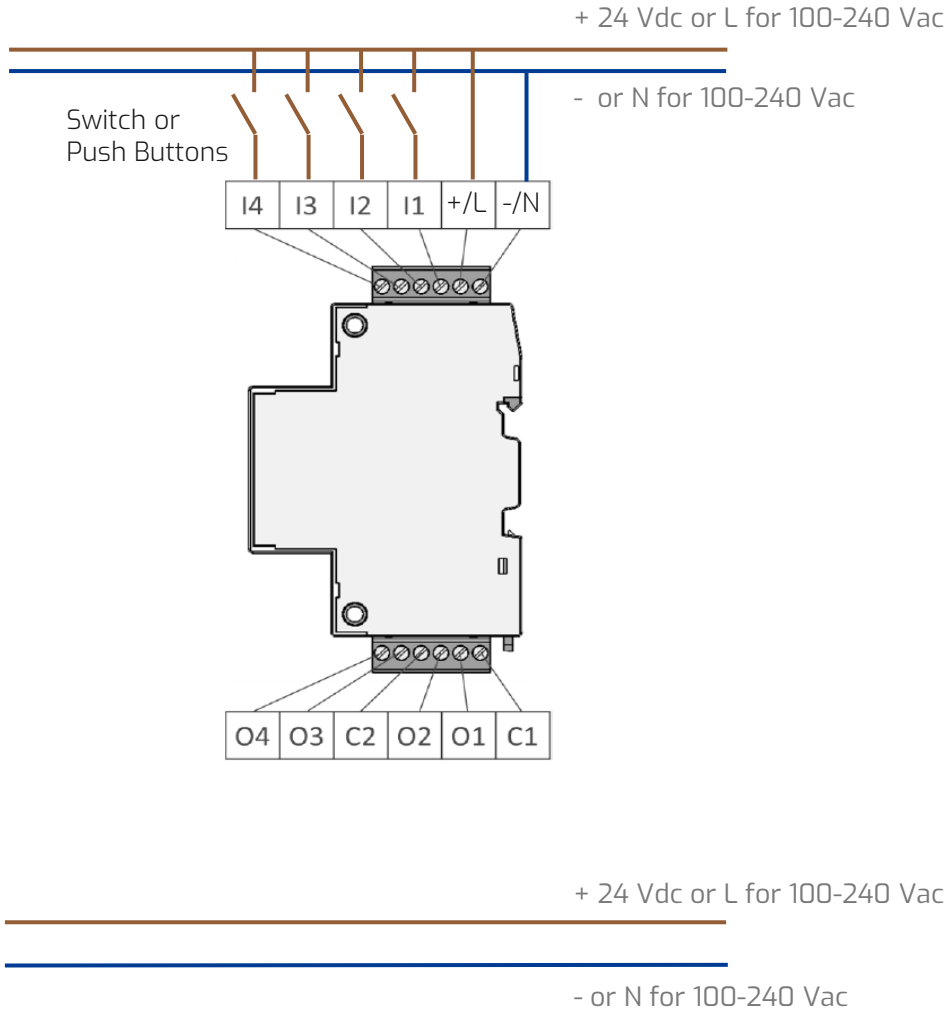
Remote Switching

***Millenium**Slim* can be used to wirelessly switch loads that are some meters at a distance thanks to its Bluetooth capabilities. A very unique function that can be used in many different applications.

DOWNLOAD HERE THE APPLICATION PROGRAM

CROUZET

Wiring Diagram -> Master Unit



Components List

- **1x MilleniumSlim** Logic Controller, part numbers available:


88983903


88983901


88983902

- **1x 24 VDC Power supply** if a 24 VDC version of Millenium Slim is used. Crouzet recommended part numbers:


89451001


89451003


89451006


89451010

- **4x Switchs or Push buttons**

Software & Program

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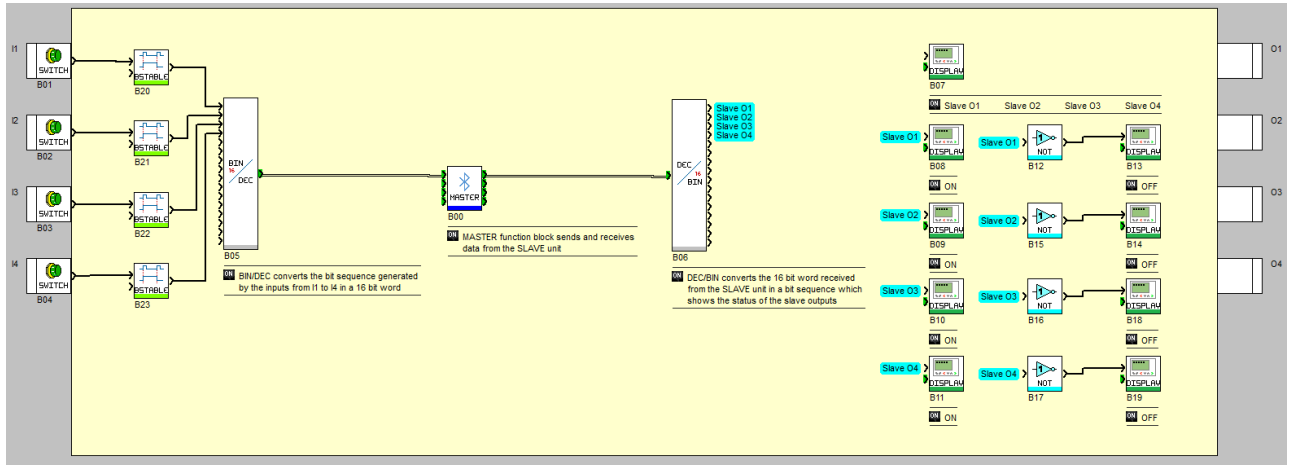
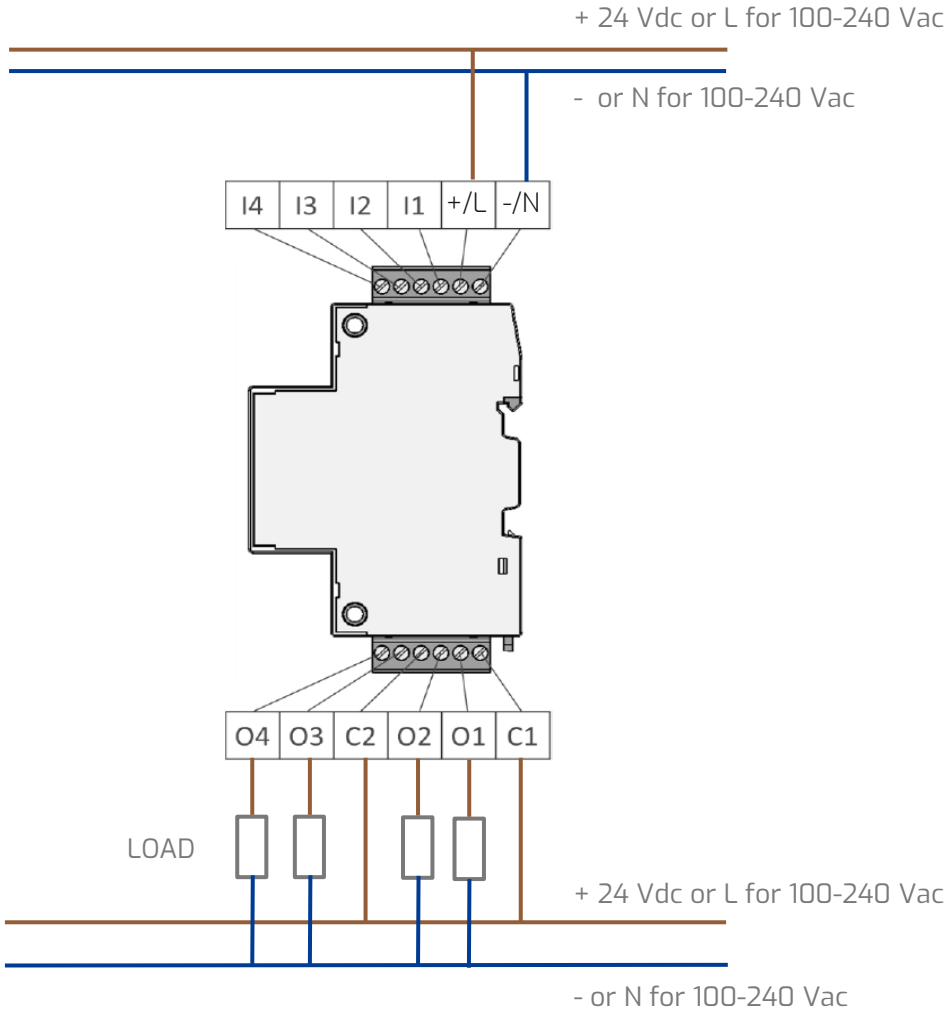


This program controls the switching of 4 outputs on a SLAVE unit depending on the inputs triggered on the MASTER unit. Push and release a pushbutton to activate an output on the SLAVE unit. Push and release again to deactivate.

- Pushbuttons on inputs from I1 to I4 trigger bistable timers linked to a BIN/DEC converter B05.
- The bit sequence generated by the activation of the inputs is converted in a 16 bit word by the BIN/DEC converter and sent to the input of the MASTER function block B00. The 16 bit word is then transmitted to the SLAVE unit.
- Output 1 of MASTER function block B00 receives the data of the SLAVE unit outputs status as a 16 bit word. This data is then converted to a bit sequence by DEC/BIN converter B06 and bits are used to switch on and off some displays function blocks with text (ON/OFF).
- Please note that to operate correctly the MASTER function block needs to be parametrized with the slave product label (data entered is case sensitive).

Wiring Diagram -> Slave Unit



Components List

- **1x MilleniumSlim** Logic Controller, part numbers available:

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- **1x 24 VDC Power supply** if a 24 VDC version of Millenium Slim is used. Crouzet recommended part numbers:

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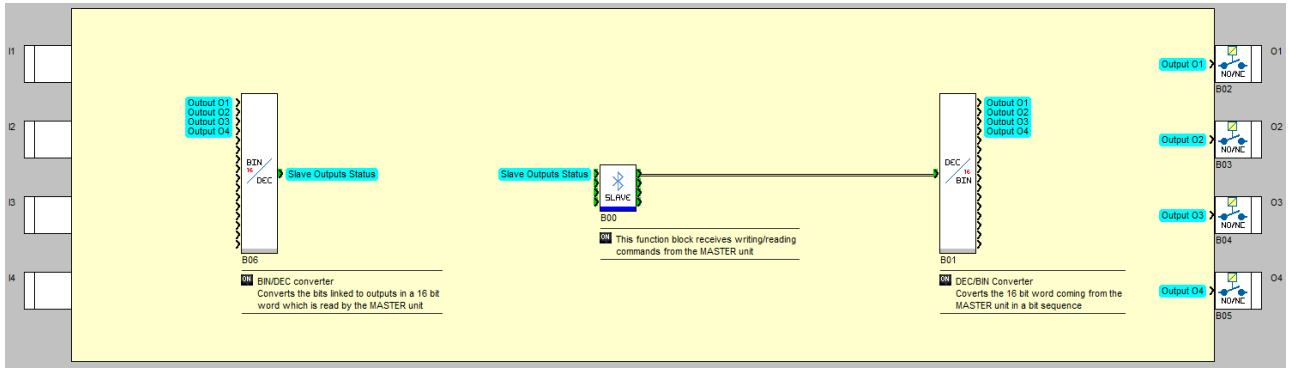

This program controls the switching of 4 outputs according to the inputs triggered on the Master unit.

- Status of Master unit inputs is transmitted by the master on the outputs of the SLAVE function block B00 as a 16 bit word. This word is then converted in a bit sequence by DEC/BIN converter to activate the outputs from O1 to O4.
- The status of the SLAVE outputs is then converted again in a word by converter BIN/DEC B06 and transmitted to the MASTER unit by the SLAVE function block B00 input.
- Please note that to operate correctly the SLAVE unit "label" set in PROGRAM -> Properties tab must match the label set in the MASTER unit "Master" function block

Warning and Disclaimer of Liability

Example Program without Liability

BACK

General Warning

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CROUZET

Weekly Timer

***Millenium**Slim* can be used as a weekly time programmer, that help us to activate an output at specific hours each day of the week.

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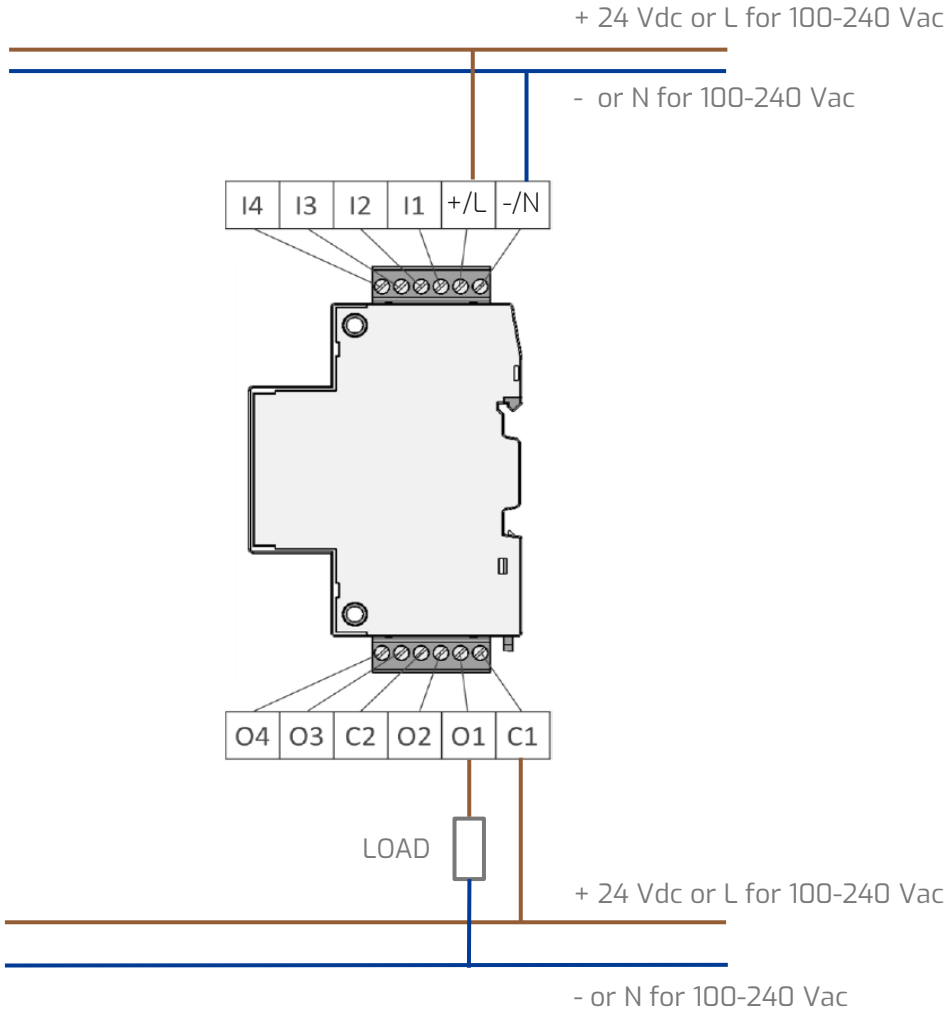
CROUZET

Wiring Diagram



Components List

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 88983903  88983901  88983902

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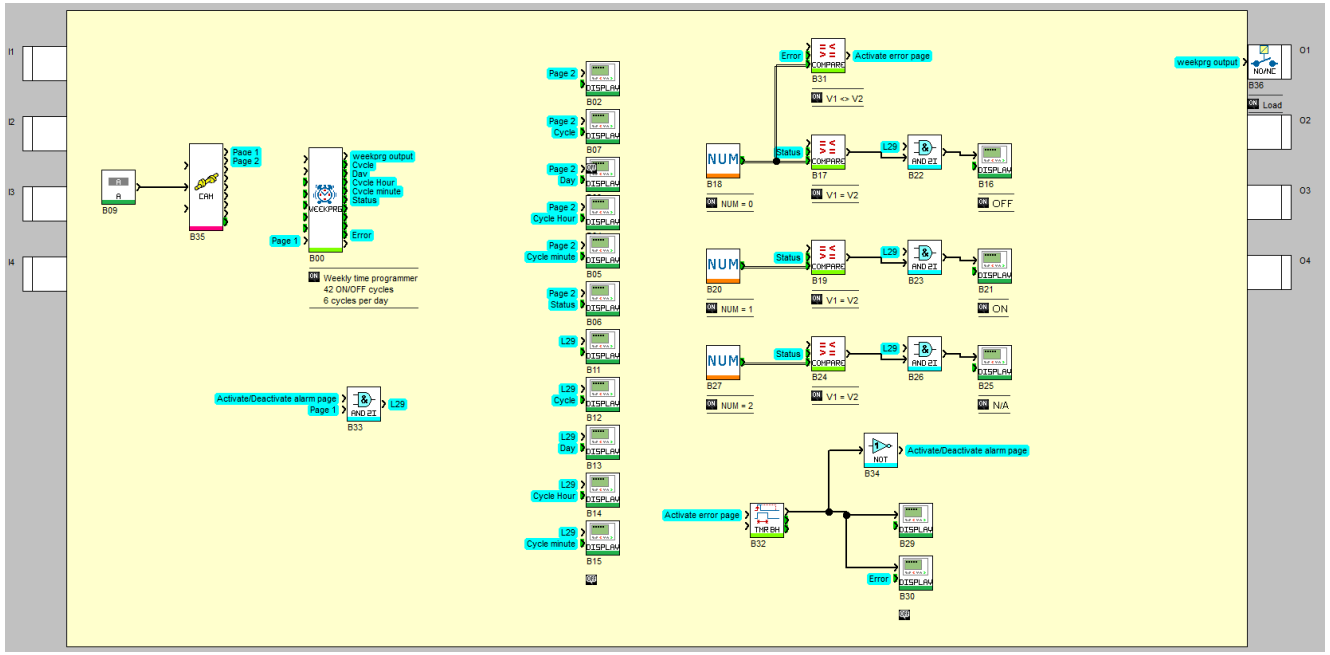

- The week is divided in ON/OFF cycles, each day has 6 cycles from cycle 0 on Monday to cycle 41 on Saturday.
- For each cycle it is possible to set the hour, minute and output status (ON,OFF, not active) directly inside the function block or thru the display.

Configuration Trough Virtual Display

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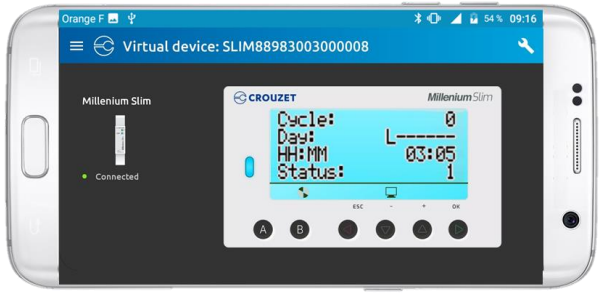

- To set the desired ON/OFF cycles press A button to enter the programming mode of the weekly timer.
- Use the arrow key +/- to move the cursor to the cycle, press OK button then select the cycle number you want to program. Change the value with +/-, press OK to confirm.
- Use the arrow key +/- to move the cursor to the HH:MM fields to set hour and minute. Use the OK button to select, change values with +/-, press OK again to confirm.
- Once the time is set move to the Output status field to select output behavior (1 output ON, 0 output OFF).
- To leave programming mode press A button.
- In operating mode, the display shows the cycle currently active, the day of the week, hour and minute of cycle start, the output status for the cycle.

Warning and Disclaimer of Liability

Example Program without Liability

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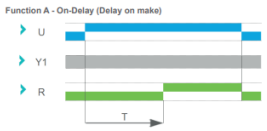
CROUZET

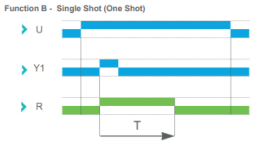
Multifunction Timer

Millenium Slim can be used as multifunction timer, in this example you can find the next functions :

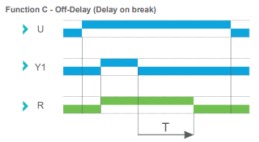
A (ON-Delay)



B (One Shot),



C (OFF-Delay)



H (Interval)

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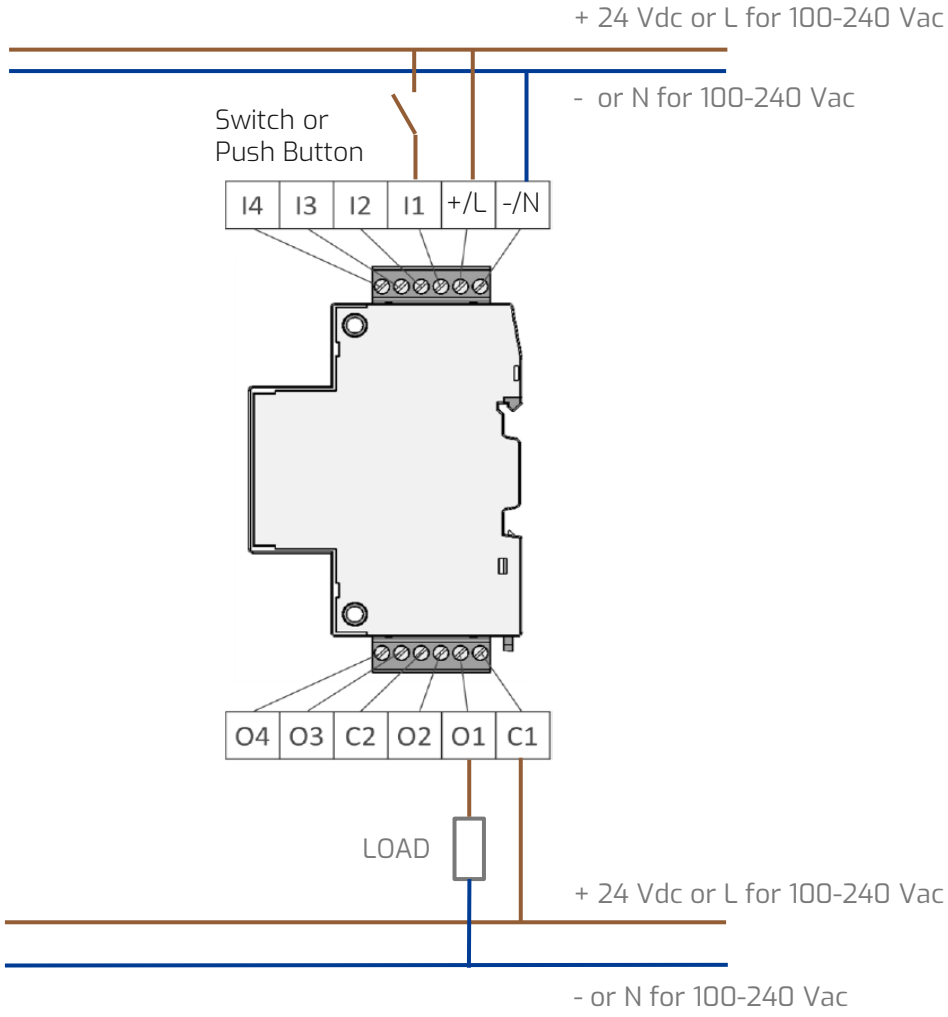
CROUZET

Wiring Diagram



Components List

- **1x MilleniumSlim** Logic Controller, part numbers available:

 88983903  88983901  88983902

- **1x 24 VDC Power supply** if a 24 VDC version of Millenium Slim is used. Crouzet recommended part numbers:

 89451001  89451003  89451006  89451010

- **1x Switch or Push button,** normally open contact (If the timer needs to start when the power supply is switched on, wire I1 directly to + 24 VDC or L)

Software & Program

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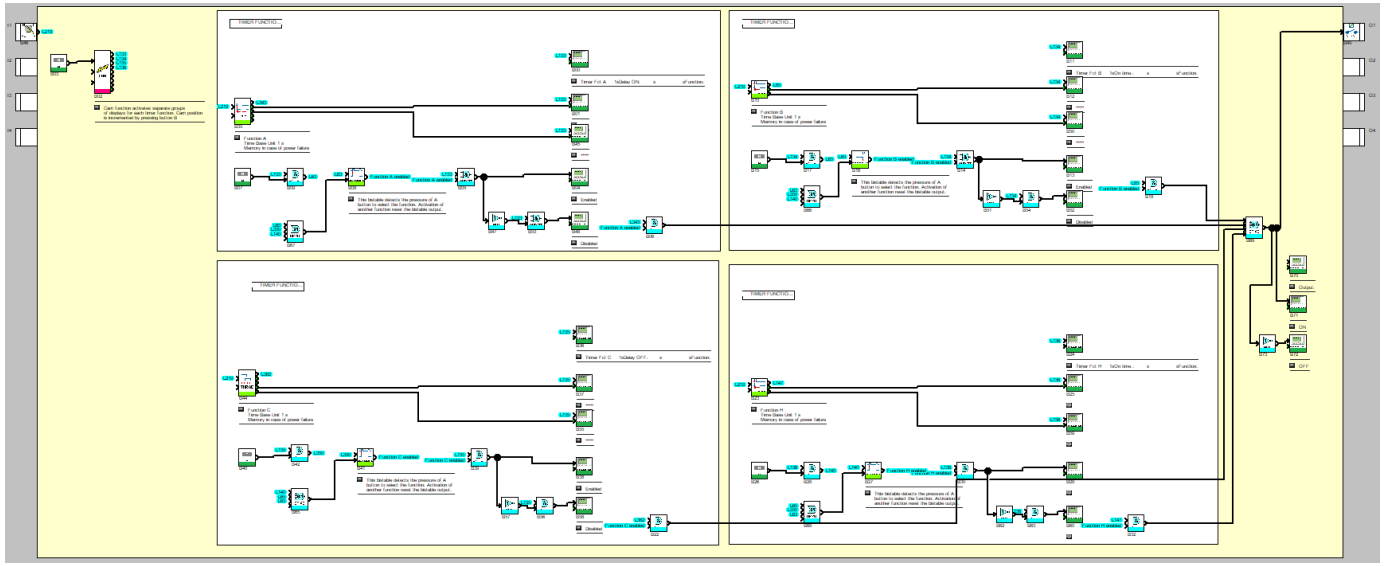

- This program allows to use the Millenium Slim as a multifunction timer for functions A,B,C,H.
- The explanation of the differents parts of the diagram can be found inside the program

Configuration Trough Virtual Display

Once we connect the supply of our Millenium Slim, you can transfer the base program via your laptop or using the Crouzet ***Virtual Display*** app

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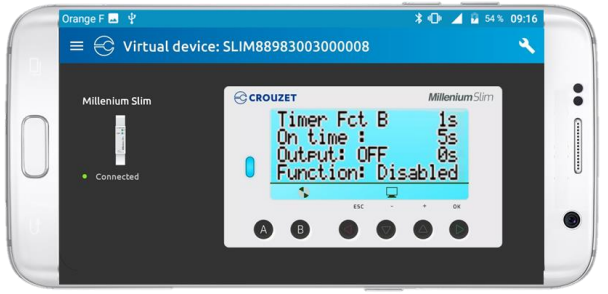

- By pressing the B button, you can cycle between the different functions.
- For each function the delay can be set using the OK button and the + / - buttons.
- Press OK and the +/- when the value is flashing. Press OK again to confirm the entered value.
- Once the time has been set, to enable the function press the button A.
- To start the timer, connect a switch or pushbutton to input I1.
- I1 can be connected to power supply if you want the timer to start each time the product is switched on.

Warning and Disclaimer of Liability

Example Program without Liability

General Warning

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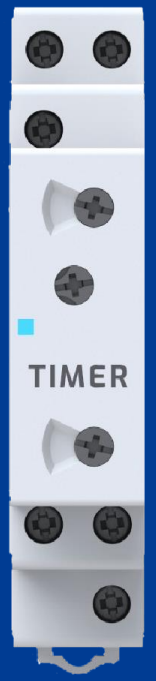

Staircase Timer

*Millenium*Slim can be used as a staircase timer

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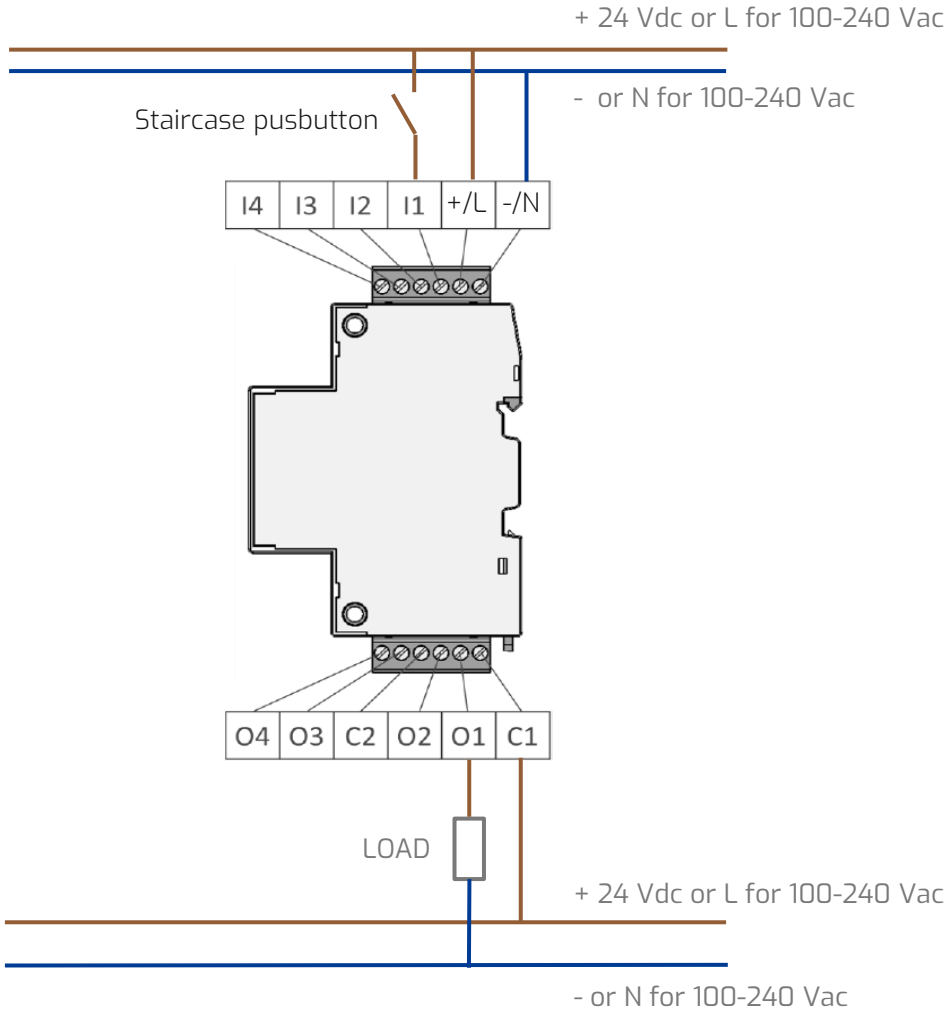
CROUZET

Wiring Diagram



Components List

- **1x MilleniumSlim** Logic Controller, part numbers available:

 88983903  88983901  88983902

- **1x 24 VDC Power supply** if a 24 VDC version of Millenium Slim is used. Crouzet recommended part numbers:

 89451001  89451003  89451006  89451010

- **1x Push button,** normally open contact

Software & Program

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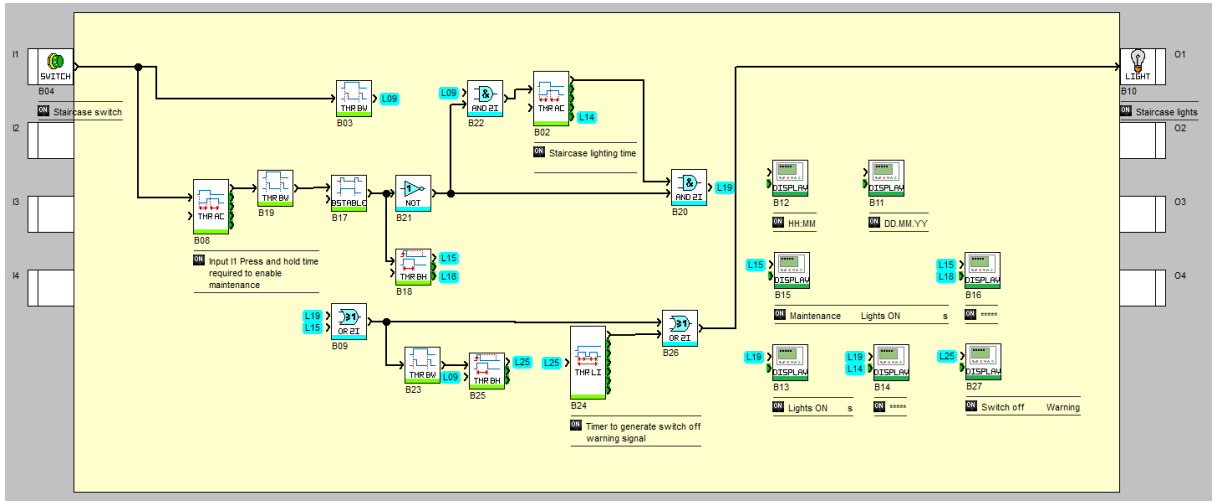

To operate the timer press one of the staircase pushbuttons connected on input I1. Pressing one pushbuttons during the timing period will reset the time and extend the duration. At the end of the set time the output contact O1 opens. Staircase lighting time is set inside timer B02 (default 20s). The Staircase timer has also the following features:

- Staircase Maintenance: allows to switch on the lights for a longer time for maintenance or cleaning activities. Feature is enabled by pressing and holding one of the staircase pushbuttons connected to input I1 for more than 5 seconds (this time can be adjusted in timer B08). Maintenance duration can be set in timer B18 (default 1 hour=3600s). To stop the maintenance operation at any time press again one of the staircase pushbuttons from more than 5s.
- Switch off warning: after the timing period the relay contact blinks off two times at intervals of 10s before switching off. During this time it is possible to extend the time by pressing again one of the staircase pushbuttons. Switch off warning duration is set in timer B24.

Warning and Disclaimer of Liability

Example Program without Liability

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CROUZET

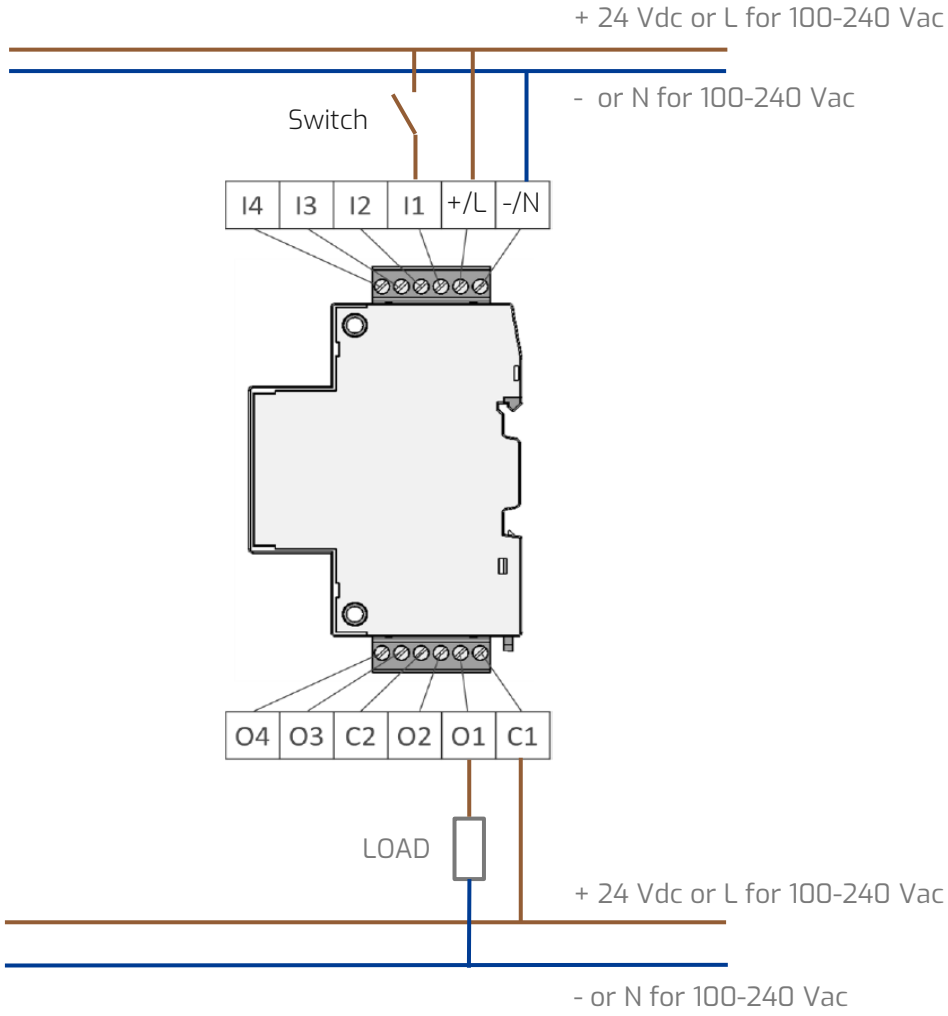
Preset Counter

*Millenium*Slim can act as a Preset Counter, that counts a signal until the present value reaches a preset value, and then it activates a control output to operate an output device.

DOWNLOAD HERE THE APPLICATION PROGRAM

CROUZET

Wiring Diagram



Components List

- **1x MilleniumSlim** Logic Controller, part numbers available:

 88983903  88983901  88983902

- **1x 24 VDC Power supply** if a 24 VDC version of Millenium Slim is used. Crouzet recommended part numbers:

 89451001  89451003  89451006  89451010

- **1x Limit switch or PNP sensor**

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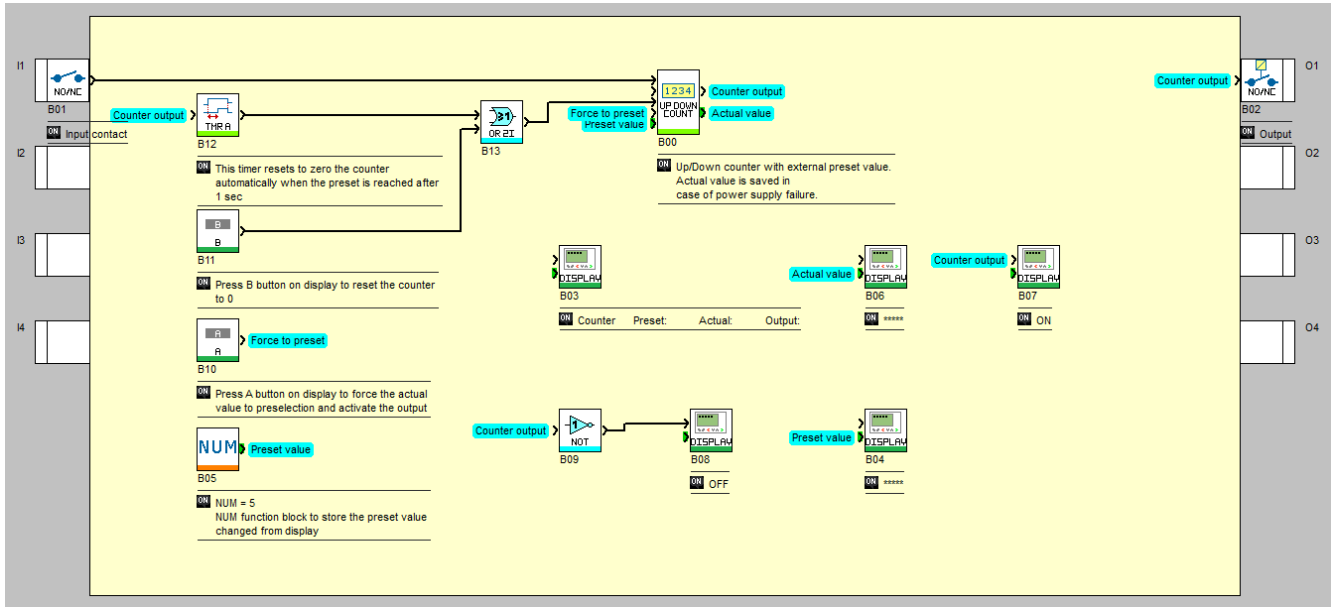

- This program allows to use the Millenium Slim as a preset counter
- The explanation of the differents parts of the diagram can be found inside the program

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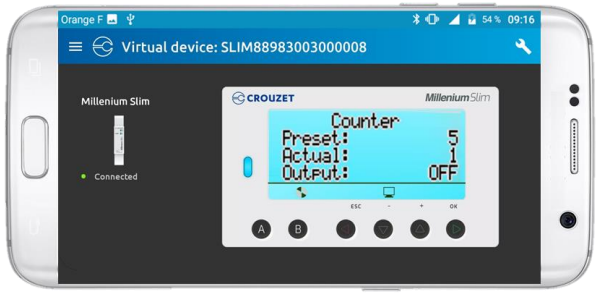

- Preset can be entered from display using the +/- buttons.
- Once the preset is reached the counter output is activated and a pulse is generated. Pulse duration is set by timer B12 which resets the counter.
- Counter can be reset to 0 also by pressing button B
- Pressing button A will force the actual value to preselection and activate the output

Warning and Disclaimer of Liability

Example Program without Liability

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