

MSC50

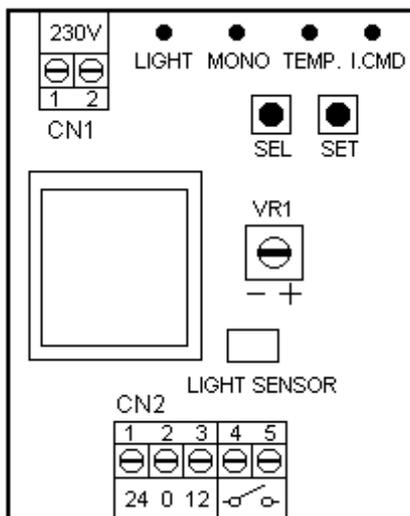
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Easy Light twilight switch, makes it possible to carry out controls without having light, there are various operational modes and types of power supply.

- Mod. **MSC50**: Power supply 12-24 VAC-DC
- Mod. **MSC50 230V**: Power supply 230VAC

TECHNICAL DATA

- Power supply: See model
- Max. consumption: 2W
- Relay Contact: 30VDC 10A
- Working temperature: -10-55°C
- Dimensions: 80x54x38mm
- Protection rating: IP 54



CONNECTIONS OF THE CN1 TERMINAL BOARD

- 1: Power supply 230VAC
- 2: Power supply 230VAC

CONNECTIONS OF THE CN2 TERMINAL BOARD

- 1: Power supply 24 VAC-DC
- 2: Power supply 0V
- 3: Power supply 12VAC-DC
- 4: Relay Contact Output
- 5: Relay Contact Output

INITIAL FUNCTIONING CONDITION

The device makes it possible to activate controls based on the light detected through the integrated sensor. Sensor sensitivity can be modified using the VR1 trimmer present inside of the device. By using the SEL and SET programming keys it is possible to select different types of operation. In the default configuration the device is set at an intermediate sensitivity to light through the VR1 trimmer and Monostable functioning with NO contact output.

ADJUSTING SENSITIVITY TO THE CAPTURED LIGHT

The device makes it possible to adjust Sensitivity of the light captured through the VR1 trimmer. The switching on of the LIGHT LED on the device indicates that the intensity of captured light exceeds the selected intervention threshold; in this way we will have a reference to the current light conditions to establish the desired one.

PROGRAMMING KEYS AND INDICATOR LED

SEL Key: selects the type of function to memorise, the choice is indicated by the flashing of the LED. By repeatedly pressing the key, it is possible to position oneself on the desired function. The selection remains active for 15 seconds, displayed by the flashing LED, after which the control unit returns to the original status.

SET Key: carries out programming of the function chosen with the SEL key.

Indicator LED

- LED on: option memorised.
- LED off: option not memorised.
- Flashing LED: option selected.

----- MAIN MENU -----		
LED Reference	LED Off	LED On
1) MONO	Monostable	Impulse 1 sec.
2) TEMP.	Timer = OFF	Timer = ON
3) I. CMD	Relay Output NO	Relay Output NC

1) MONO (Monostable Operation / Impulse 1 sec.)

The control unit is supplied with the Monostable operational mode enabled (MONO LED OFF), meaning that the relay will activate every time that the sensor determines that there is no light, and will deactivate in the presence of light. When needing an Impulse type of functioning, meaning that the relay is only activated for one second each time that the sensor determines that there is no light, programming must be completed in the following way: position the SEL key on the flashing of MONO LED then press the SET key, the MONO LED will simultaneously switch on permanently and the programming is completed. Repeat the procedure to restore the previous configuration.

2) TEMP. (Timer Function enabled / disabled)

The control unit is supplied with the Timer functioning disabled (TIMER LED OFF).

When the device needs to be used with the timed function, meaning that the control relay is active for the programmed amount of time after the sensor has been activated.

Proceed as follows: position the SEL key on TIMER LED and press the SET key to start programming, at the same time the TIMER LED will start to double flash; every double flash of the TIMER LED corresponds to an increase of 30 minutes up to a maximum of 12 hours (24 double flashes), press the SET key until the desired time is reached; at the same time the selected value is saved and the TIMER LED will stay on.

It is possible to repeat the operation in case of an incorrect programming.

Displaying the programmed Time

When verifying the previously programmed Time, it is possible to display it in the following way: with the SEL key position yourself on TIMER LED, the LED will start to double flash for the number of times equal to the Time programmed in the memory (every double flash of the TIMER LED corresponds an increase of 30 minutes), (example: 4 TIMER LED flashes = 120 minutes).

3) I. CMD (Inversion of NO / NC control functioning)

The control unit is with a Normally Open output operational mode (LED I. CMD OFF).

When needing an inverted mode of operation, with the control output set at Normally Closed, proceed as follows: position the SEL key on the flashing of LED I. CMD then press the SET key, the LED I. CMD will simultaneously switch on permanently and the programming is completed. Repeat the procedure to restore the previous configuration.

RESET

In case it is necessary to reset the device to default factory settings, press the SEL and SET keys together so that all indicator LEDs switch on and then immediately off at the same time.



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IMPORTANT FOR THE INSTALLER

- The product does not have any type of isolating device for the 230 Vac line. It will therefore be the responsibility of the installer to arrange an isolating device inside the plant. It must be positioned where it can be protected from accidental closing, according to that prescribed in point 5.2.9 of EN 12453.
- Wiring of the various electrical components outside of the product must be carried out in compliance with that prescribed in Standard EN 60204-1 and its amendments at point 5.2.7 of EN 12453. Power supply and connection cables must be fixed using the cable glands that can be supplied as an optional.
- Pay attention while making holes in the outside casing, when passing cables for connection and power supply and assembling the cable glands, that everything is installed in a way that keeps IP protection characteristics of the panel unchanged as much as possible.
- Pay careful attention when fastening the cables so that they are anchored in a manner that is stable.
- The back casing is not equipped with suitable predispositions for fixing to a wall (predisposition for holes for fixing using anchors or holes for fixing using screws). Plan and implement necessary solutions to achieve an installation that does not alter the IP protection.

IMPORTANT FOR THE INSTALLER

- **ATTENTION:** keep this instruction manual and respect the important safety prescriptions contained herein. The non compliance with the prescriptions may cause damages and serious accidents.
- The device must never be used by children or persons with reduced physical-psychological abilities, unless supervised or trained on the functioning and the use modalities.
- Frequently examine the plant to detect any signs of damaging. Do not use the device if a repair intervention is necessary.

Attention

All operations which require the opening of the casing (cables connection, programming, etc.) must be carried out by expert personnel during installation. For any further operation which requires the casing to be re-opened (re-programming, repair or installation amendments) contact the after-sales assistance.

STATEUROP declares that the products

MSC50 - MSC50 230V

comply with the specifications of the Directives
LVD 2006/95/EC, EMC 2004/108/EC.

