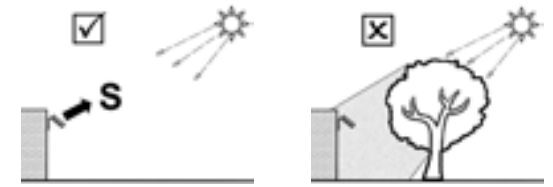


■ solar panel SOLAR 1010 (10W) / solar panel 1020 (20W)

Place the solar panel to a recommended maximum distance of 10 m from the control box. Fasten the panel to the wall with the supplied bracket. The solar panel should face SOUTH. Check that no obstacle creates shadow on the panel and that it is in full light. Connect the panel to the circuit board being careful to respect the polarity of the wiring.

Warning: in case of intensive use or to ensure greater autonomy in low light conditions it may be advised to use solar panel SOLAR1020 (20W) to be used by combining a minimum 12V 12A battery. The 12V battery 12A must be housed in an external box



■ SOLAR 101010W solar panel mounting bracket



■ Solar 1020 20W solar panel mounting bracket



control board consumption table	MOTOR	stand-by consumption/ (A/h)	daily stand-by consumption (A)	Full cycle (open + close) consumption (A)	hypothesis: daily full cycles	total daily consumption (A)	10W solar panel average-recharge capacity (A/h)	hypotheses: daylight hours daily in the worst conditions	total daily re-charge capacity (A)	energy surplus accumulated and not used during the day (A)
electronic board CTH44 or CTH48	1 wing gate	0,007	0,16	0,012	60	0,88	0,3	5	1,5	+ 0,62
	2 wings gate			0,024	50	1,24				+ 0,26

The table gives an estimation of autonomy in the worst light conditions (we calculated only 5 hours of daily light with a low brightness level).

This condition may correspond to the situation: winter with overcast / partly covered or veiled.

The table shows the maximum number of maneuvers, maintaining the same level of charge of the battery.

With summer weather and excellent exposure to light for more hours per day, the levels of autonomy increase exponentially.

With use of photocells and especially in the case of double pair of photocells SW7120 we recommend the use of a 20W panels combined with a 12A battery to ensure an even better energy autonomy.

NOTE: the solar panel 1020 combined 12V 12A battery has a charging capacity of about 1A / hour ,exponentially increasing the autonomy compared to a 10W panel 7A battery.

Caution: the use of a solar panel 20W combined to a 12V 7A battery is inadvisable because it would not exploit all the charge given by the panel.