Flashing Light
"E-one Radio Sincroled"

	Certifications: optics with Ministerial Approval		**luminous intensity:** UNI EN 12352 (class L8H)		**Type of battery:** nr. 2 4R25 batteries of: 7 Ah / *25 Ah* / 45 Ah		**Dimensions (H / L / W):** 36,5 x 20 x 9,5 cm
	Light source: 120 led amber		**Power supply:** 12 V_{dc}		**Duration:** 44 h / *160 h* / 280 h		**Weight:** 0,7 Kg
	Light emission: sequential yellow (amber)		**Luminous intensity regulation:** variable intensity depending on ambient light		**On/off switch:** external		**Temperature:** -20 °C - +85 °C

Product Description

The Radio Syncroled radio permits to create a luminous sequence to signal to the incoming vehicles a lane change and/or a diversion.
The flashing sequence makes a guide light that permit to the road users to be advised of the beginning of the obstacle on the lane and the direction to follow and gives them a safe direction indication in dangerous situations.
The system can be composed by two or more lamps that can work in sequence or as barrier mode.
The lamps can be installed over specific supports as rubber cones, PVC panels, on delineators and other kind of supports as poles etc.
Due to the absence of cables and to the reduced dimensions the installation of the Radio Synchroled is faster than the traditional sequential system.
The use of the Radio Synchroled permits to reduce the time of thepositioning of the system and the preparation of the work zones. The duration of the synchronization is unlimited.
The Radio Synchroleds of 230 mm diameter are composed by one front led optic, one back frame and one bottom case for the batteries.
The led optics are composed by two shells(front shell the lens - back shell the base). The two shells are assembled by one joint system closed with screws and nuts.
The shells are made with transparent plastic material (Lexan) shock and weatherproof. The inside electronic board with the LED diodes is fixed inside each warning light with specifics loading and anti-rotating systems.
The LED optics are fixed with screws to the orange colour plastic material (Moplen) back case. Inside the cases are installed the electronic circuits for the operating of the warning light.
The led optic and the case, once assembled, are fixed with screws on the battery case (the battery case can hold two 4R25 6V batteries).
The lights synchronization system is based on a Radio communication system transmission. The first light transmits the signal to the following one, without the presence of any kind of cable.

Working Description

The Radio Synchroled has three external control buttons that permit to choose the selection of different flashing options.
It is possible to change the working options only programming the first lamp of the wireless sequential system.
The selected option becomes active in few seconds.
The radio synchroled automatically reinstates the flashing sequence in the following situations:

- If one lamp stops working (due to discharged battery) the sequence automatically regulates itself to fill the lack of not working lamp;
- Once replaced the batteries the lamp takes again its position in the sequence;
- If two or more lamps stop working, the user must switch on again the system

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following their order in the sequence. (For example if the third and the fourth lamp of a sequence stop flashing, it should start again the third lamp and after the fourth lamp).

Functionality

The Radio Synchroled checks the battery charge level in the following situations:

- In the moment of the switching on and during the working session each lamp checks its own battery charge level and communicates to the user by a red light on the back side of the case its charging level;
- RED LIGHT SWITCHED OFF: the batteries are charged;
- RED LIGHT FLASHING: low charge level, the user must proceed with the replacement of the batteries as soon as possible to permit to the system to go on working in the right way;
- RED LIGHT LIGHTED UP: the batteries are totally discharged the lamp is switched off.

Led light electronic characteristic

- Power supply: 12V with two batteries 4R25 of 6 volts;
- Sequence modes: standard sequence, Flash sequence, barrier. It is possible to select one of the three option from the synchroled at the beginning of the sequential system;
- Flashing options: night guide light, standard, first and last lamps steady light, this option can be selected from the first lamp of the sequence;
- Synchronization system: via radio communication system (433 Mhz);
- Synchronization duration: unlimited;
- Number of flashings per minute: variable according to the selected flashing option;
- Light intensity control: automatically managed by each lamp. Nightlight option: it is possible to select this option from the first synchroled at the beginning of the sequential system;
- Maximum positioning distance between two lights: 70meters (recommended 30 meters);
- Number of lights that can be synchronized: minimum 2 lights maximum 20 lights;
- Luminous source: optic 200 mm composed by 120 Led diodes high luminosity intensity, projected in compliance with the UNI EN 12352, CLASS I8h (Ministerial Approval n. 681 19/04/2006).

Set Up Mode

"A"

GUIDE LIGHT: during the night in addition to the flashing sequence the user can select the option guide light.
The led lights remain always switched on but with a lower intensity than the flashing sequence, creating an effect of a guide light;
STANDARD: standard working option;
FIRST AND LAST LAMP LIGHTED UP: the first and the last lamps are always switched on with a steady light.

"B"

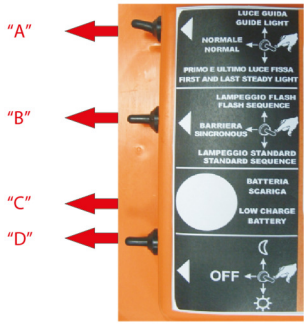
SHORT FLASHING: (0.1 second);
BARRIER: all the lamps switch on at the same time;
STANDARD FLASHING (0.2 second).

"C"

DISCHARGED BATTERY: a flashing red light communicates to the user the low charge battery level; a steady red light shows to the user that the battery is completely discharged;
SWITCHED OF: Battery charged;
FLASHING: Low charge;
SWITCHED ON:Battery totally discharged the lamp is switched off.

"D"

The lamps work only during the night time (during the day only a short flanshing will appear to show the correct working of the system); The lamps work 24h a day.
OFF Lamp switched off;



Norms

- Article 21 - 41 of the Road Code
- Article 36 - 39 - 71 of Regulation Enforcement and implementation of the Road Code
- Ministerial Decree Of July 10, 2002 published in the Official Gazette no. 226 of 26 September 2002
- European Directive 2004/108/EC and the CE marking
- In compliance with EN 12352

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