

# EMERGENCY LIGHTING

 Led Lighting Solutions Provider



## "C.B.S"

CONTENTS:

 CENTRAL BATTERY SYSTEMS "CBS"



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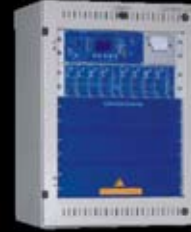
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# CENTRAL BATTERY SYSTEMS "CBS"

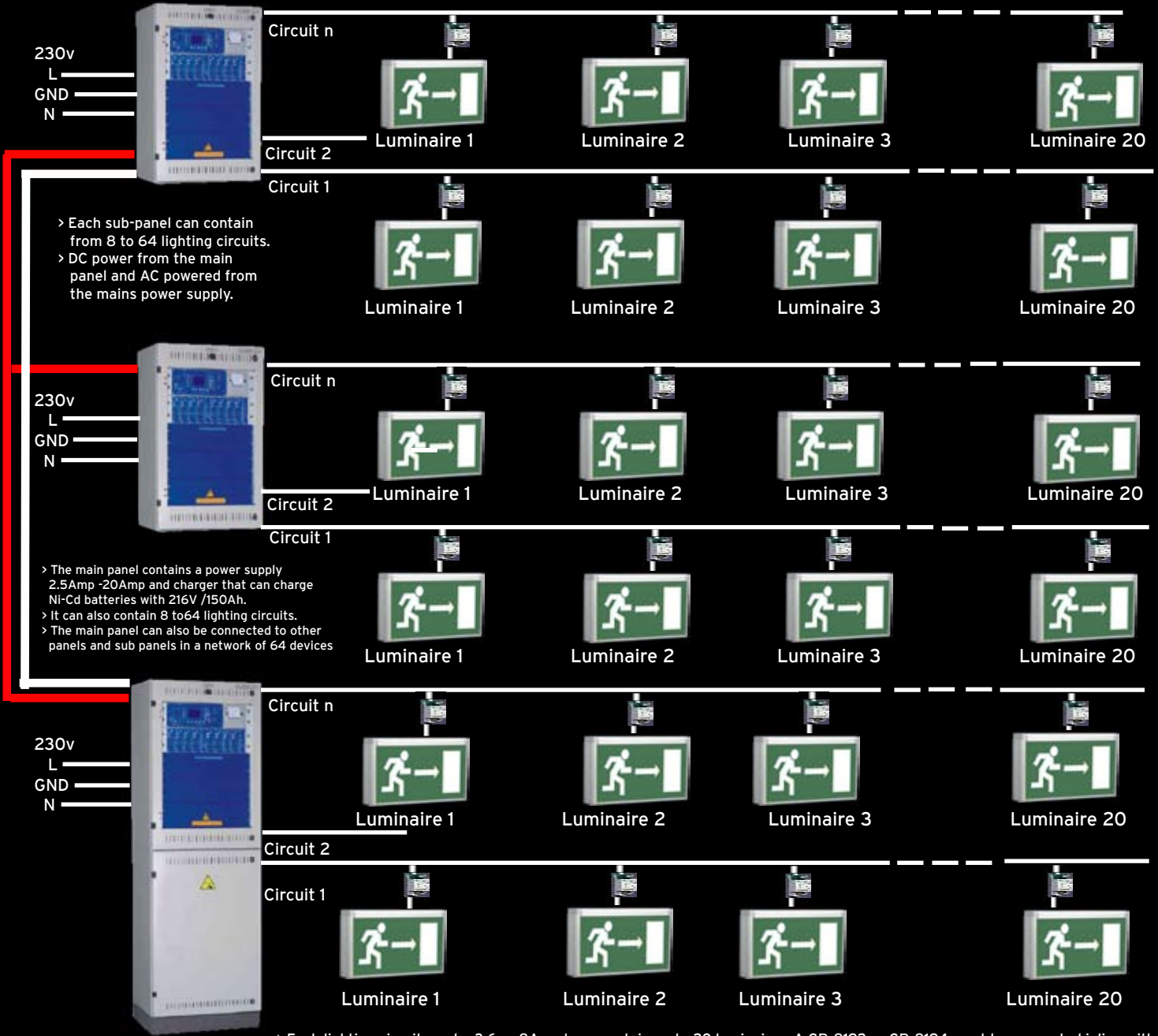
## "Central Battery System"



### Full automatic control system with microprocessor.

- > Network capability with up to 64 panels and sub-panels.
- > Full control over the system (and the sub panels) from the central panel.
- > Floor standing cabinet with sheet steel and access door.
- > Independent programming in each circuit for non-maintained or maintained illumination.

- > PC programmable installation and customer data.
- > All errors are recorded in special EEPROM and are retained for years.
- > Fully programmable via PC software.



> Each lighting circuit can be 3,6 or 8A and can contain up to 20 luminaires. A GR-8192 or GR-8194 must be connected inline with every luminaire in order to permit each luminaire to have its own address. The communication between the luminaires and the panel is established using the power supply cables. During the automatic tests, each luminaires reports its condition to the panel.



### GENERALLY

European regulations as well as special regulations (labour law, fire safety regulation) demand the installation of a security lighting system in places where personal and financial damage can be caused, if there is a main power supply failure. The central panel of the security lighting system includes charging, transfer and control circuits, which are necessary for the function of the

installation. The charging circuit consists of a charger and control circuits which guarantee that, when the power is on (after failure), 90% of the battery separateness is recharged within 10 hours. Emergency luminaires are responsible for the lighting of rooms, work places and escape routes with a certain minimum intensity of lighting required during the main power supply failure. In case of failure or voltage drop of the main power supply for about 15%, an automatic switch is activated and supplies the lighting circuits, programmed as continuous current, from the batteries.

At the same time it also activates the non-maintained current circuits. When the main supply is restored or comes up to 90% of the main voltage, the switch goes back to the normal function.

A module attached to the central unit isolates the lighting circuits from the batteries when their voltage is too low, so that they won't completely discharge. This way the batteries are not destroyed when there are long lasting power failures. There is a test button on the device to manually control the back up operation.

### SYSTEM COMPOSITION

A CENTRALLY SUPPLIED AND ADDRESSABLE SECURITY LIGHTING SYSTEM CONSISTS OF THE FOLLOWING PARTS:

#### a. Central panel.

The central panel is the heart of the system. It includes the central processor unit with the indication screen, the control and operating keys and the register memory the installation specifications and events. The same central unit also includes the panel's connection circuits to the section panels and the H/Y (ports RS-232). It also includes a charger for the bank of batteries. Depending on the capacity of the batteries, the charger can be supplied by one or three phases. There is also space for the replacements of the batteries if their size allows it (if the required batteries are of big capacity and therefore, big in size), separate metal closets or open drawers are necessary. The panel can operate with open system type lead batteries, or nickel-cadmium batteries. The batteries nominal voltage always has to be 216 VDC.

There are also lighting circuit sockets (8 to 64 depending on the size of the panel). Cards that control 2 lighting circuits each can be placed in them. There are 2x3A, devices, 2x6A and 2x8A cards. Up to 20 luminaires can be connected to each circuit. All the installation luminaires can be connected to and controlled by the central panel, as long as the distances and the cables' sections allow it.

#### b. Section panels

They are necessary where the distances between the lighting circuits are long. They have a circuit that communicates with the central panel (RS-232) and sockets for cards with two lighting circuits. These cards are the same with the ones of the central panel. There are section panels with positions for 8, 16, 24, 32, 40, 48, 56 and 64 circuits. The section panels are supplied with AC voltage from the closest electric lighting panel and with DC voltage from the central lighting security panel. Each central panel can connect to and control up to 63 section panels

#### c. Emergency luminaires

The luminaires connected to the central security lighting system must necessarily include electric ballast so that they can work with AC and DC voltage. Each luminaire is connected to the lighting circuit with a special device called addressable module. The device can be placed in the luminaire or outside of it in a distance of up to 3 metres. There are two kinds of such devices. The GR-8192 is used in installations where the lighting circuits include luminaires that are all either of maintained or non-maintained operation mode. The GR-8194 is used in installations where in the same lighting circuit we want to simultaneously include maintained or non-maintained operation mode luminaires.



# CENTRAL BATTERY SYSTEMS "CBS"

## EDGE ILLUMINATION SIGNS FOR CBS from the series "LOUNGE LIGHT"

TYPE	DESCRIPTION
ED15-SLD-28/CBS/SP	Edge illumination sign for CBS / LEDs / 45lm
ED15-SLD-34/CBS/SP	Edge illumination sign for CBS / LEDs / 55lm
ED15-SLD-44/CBS/SP	Edge illumination sign for CBS / LEDs / 55lm

## EDGE ILLUMINATION SIGNS FOR CBS from the series "ECO LIGHT"

TYPE	DESCRIPTION
ED15-DLD-28/CBS/w	Edge illumination sign for CBS / LEDs / 18lm
ED15-DLD-34/CBS/w	Edge illumination sign for CBS / LEDs / 55lm

## EMERGENCY LUMINAIRES FOR CBS from the series "PROJECT LIGHT"

TYPE	DESCRIPTION
ED15-SLD-28/CBS/SP	Luminaire for CBS (double sided) / fluo. 8W with electronic ballast
ED15-SLD-34/CBS/SP	Luminaire for CBS (double sided) / fluo. 15W with electronic ballast
ED15-SLD-44/CBS/SP	Luminaire for CBS (double sided) / fluo. 18W with electronic ballast

## EMERGENCY LUMINAIRES FOR CBS from the series "LIGHT BOX "

TYPE	DESCRIPTION
ED15-GR-560	Edge illumination sign for CBS / LEDs / 45lm
ED15-GR-570	Edge illumination sign for CBS / LEDs / 55lm
ED15-GR-580	Edge illumination sign for CBS / LEDs / 55lm

## EMERGENCY LUMINAIRES FOR CBS from the series "3D LIGHT"

TYPE	DESCRIPTION
ED15-GR-424/4P	Edge illumination sign for CBS / LEDs / 360lm
ED15-GR-424	Edge illumination sign for CBS / 11W CFL , with electronic ballast

## EMERGENCY LUMINAIRES FOR CBS from the series "WEATHER LIGHT "

TYPE	DESCRIPTION
ED15-GR-926	Waterproof luminaire for CBS / fluo. 8W with electronic ballast
ED15-GR-927	Waterproof luminaire for CBS / fluo. 2x8W with electronic ballast

## EMERGENCY LUMINAIRES FOR CBS from the series "COMFORT LEDs LIGHT"

TYPE	DESCRIPTION
ED15-GR-414/3L	Luminaire for CBS / LEDs - 75lm
ED15-GR-414/6L	Luminaire for CBS / LEDs - 150lm

## EMERGENCY LUMINAIRES FOR CBS from the series "EASY LIGHT "

TYPE	DESCRIPTION
ED15-GR-324	Luminaire for CBS / fluo. 8W with electronic ballast
ED15-GR-325	Luminaire for CBS / fluo. 2x8W with electronic ballast

## EMERGENCY LUMINAIRES FOR CBS from the series "DOUBLE EASY LIGHT "

TYPE	DESCRIPTION
ED15-GR-388	Luminaire for CBS (double sided) / fluo. 8W with electronic ballast

## EMERGENCY LUMINAIRES FOR CBS from the series "SPOT LIGHT "

TYPE	DESCRIPTION
ED15-GR-286	Waterproof luminaire for CBS, ceiling mounted / LEDs / 50lm
ED15-GR-287	Waterproof luminaire for CBS, ceiling mounted / LEDs / 25lm





# CENTRAL BATTERY SYSTEMS "CBS"

## CENTRAL TABLES FOR EMERGENCY LIGHTING

TYPE	CIRCUITS	POWER SUPPLY	TYPE	CIRCUITS	POWER SUPPLY
ED15-GR-8100	8	2.5A	ED15-GR-8130	48	5A
ED15-GR-8110	8	2.5A	ED15-GR-8131	48	7.5A
ED15-GR-8111	8	5A	ED15-GR-8132	48	10A
ED15-GR-8112	8	7.5A	ED15-GR-8133	48	12.5A
ED15-GR-8113	16	2.5A	ED15-GR-8134	48	15A
ED15-GR-8114	16	5A	ED15-GR-8135	56	2.5A
ED15-GR-8115	16	7.5A	ED15-GR-8136	56	5A
ED15-GR-8116	24	2.5A	ED15-GR-8137	56	7.5A
ED15-GR-8117	24	5A	ED15-GR-8138	56	10A
ED15-GR-8118	24	7.5A	ED15-GR-8139	56	12.5A
ED15-GR-8119	32	2.5A	ED15-GR-8140	56	15A
ED15-GR-8120	32	5A	ED15-GR-8141	56	17.5A
ED15-GR-8121	32	7.5A	ED15-GR-8142	56	20A
ED15-GR-8122	32	10A	ED15-GR-8143	64	2.5A
ED15-GR-8123	40	2.5A	ED15-GR-8144	64	5A
ED15-GR-8124	40	5A	ED15-GR-8145	64	7.5A
ED15-GR-8125	40	7.5A	ED15-GR-8146	64	10A
ED15-GR-8126	40	10A	ED15-GR-8147	64	12.5A
ED15-GR-8127	40	12.5A	ED15-GR-8148	64	15A
ED15-GR-8128	40	15A	ED15-GR-8149	64	7.5A
ED15-GR-8129	40	2.5A	ED15-GR-8150	64	20A



### SUBSTATION MODELS FOR EMERGENCY LIGHTING

TYPE	CIRCUITS
ED15-GR-8160	8
ED15-GR-8160	16
ED15-GR-8162	24
ED15-GR-8163	32
ED15-GR-8164	40
ED15-GR-8165	48
ED15-GR-8166	56
ED15-GR-8167	64



### METALLIC CLOSET FOR BATTERIES

TYPE	DIMENSIONS
ED15-GR-8180	90 x 45 x 60cm
ED15-GR-8182	180 x 45 x 60cm



### PRINTER FOR CENTRAL BATTERY SYSTEM

TYPE	DESCRIPTION
ED15-GR-8190	Printer for central battery system



### 2 CIRCUIT CARDS

TYPE	2 CIRCUITS
ED15-GR-8170	3A (2x3A)
ED15-GR-8172	6A (2x6A)
ED15-GR-8174	8A (2x8A)



> A GR-8192 or GR-8194 must be connected inline with every luminaire in order to permit each luminaire to have its own address. (Each lighting circuit can be 3, 6 or 8A and can contain up to 20 luminaires.)

### ADDRESSABLE INTERFACE FOR LUMINAIRES

TYPE	DESCRIPTION
ED15-GR-8192	Addressable Module for Luminaires (CBS)
ED15-GR-8194	Addressable Module for Luminaires (CBS with Switcher)
ED15-GR-8195	Addressable Module for Luminaires (CBS) with Switcher and el.ballast 4-13W



We reserve the right to make changes at any time in order to maintain the highest product quality.

 Led Lighting Solutions Provider

 **EDEN**  
illumination



**Emergency C.B.S. Catalogue 2009**

Could care for creation return earth to Eden?

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