



# ORION-BCM LSC

## ADDRESSABLE BATTERY/CHARGER MODULE W/ INTEGRATED LOOP SOUNDER CIRCUIT (LSC)

The ORION-BCM LSC is a self contained EN54-4 Battery Charger Module with an integrated Loop Sounder Circuit that is controlled and monitored through GFE addressable loop. It also incorporates internal Alarm and Fault relays.

When connected to the analogue detection loop of any of GFE's analogue addressable panels, the ORION-BCM LSC occupies two consecutive addresses in the loop. In addition to the PSU output for powering external devices, it also includes a Conventional Sounder output, which substantially increases its scope of usage. Activation of sounder output can be achieved either by addressable system cause-effect programming as a normal addressable sounder or directly at the ORION-BCM (access code required).

An internal monitoring system continuously checks all circuits, ensuring fault detection and notification, listed below. In addition to local notification, status is also reported to the addressable system:

- Sounder Circuit Integrity Fault
- Battery Charger Fault (voltage level and charging behaviour)
- Mains Fault (voltage level) and Earth Fault
- Output Supply Voltage Level
- Communications Fault (On the Addressable Panel)
- General System Fault (by the means of independent watchdog system).

### KEY FEATURES

- Voltage-free dedicated inputs to activate built-in Relay for controlling Door Holders and Sounder Circuit
- One supervised Conventional Sounder Circuit
- Dedicated battery charger (Secondary Supply) for Sounder Circuit and Auxiliary Power
- Addressable Loop Interface with fault report feedback (supervision) and sounder activation acknowledgement /control
- Two relays output for Fault (NC) and Fire (SPDT) signal - unmonitored
- Supervised 24V Supply Output with 900mA
- EN54-4 Compliant

## TECHNICAL SPECIFICATIONS

### POWER SUPPLY

MAINS SUPPLY VOLTAGE	230 +10% -15% V AC
INTERNAL POWER SUPPLY	Min. 21V DC - Max. 30V DC (28.5V DC nominal) Max. Ripple 1 Vpp
TOTAL OUTPUT CURRENT	1,7A @ 230V AC
MONITORED SUPPLY & BATTERY CHARGER	Yes
MONITORED BATTERIES	Yes
BATTERIES MAX. INTERNAL RESISTANCE	1 Ohm
MAX BATTERY SIZE	2 x 12V 7AH VRLA - Sealed Lead Acid Batteries Min. Voltage 21,0V DC (Vb min) - Max. Voltage 27,2V DC
MAINS FUSE	4A - 250V Slow Blow - 20 mm
BATTERY FUSE	1.6 Amp Resettable - Electronic Fuse
MAX CURRENT DRAW FROM BATTERY (MAINS FAILURE)	1.5 Amp Max. @ Max. Operating Temperature

### SOUNDER CIRCUIT

NUMBER OF CIRCUITS	1
END OF LINE RESISTOR VALUE	10K Ohms
MONITORING	Open and Short Circuit
ALARM VOLTAGE	27.5V DC
SOUNDER CIRCUIT FUSE	1.1 Amp resettable (Electronic Fuse)
MAX. CURRENT AVAILABLE	900 mA @ 27.5V DC Nominal

### AUXILIARY OUTPUTS

DC POWER OUTPUT	27.5V DC Nominal - Max. Current Drawn 900 mA
FIRE RELAY	Active in Fire condition, 2A @ 30V DC resistive / 0.25A @ 230V AC resistive; SPDT
FAULT RELAY	Active in Fault condition, 2A @ 30V DC resistive / 0.25A @ 230V AC resistive; NC

### DIMENSIONS

SIZE	273 (L) x 107 (W) x 404 (H) mm
WEIGHT	1,7 Kg / 7 kg (inc. 2 x 7 AH 12 V batteries)
OPERATING TEMPERATURE	-10 to +50°C
MAX RELATIVE HUMIDITY	95% non condensing

### ADDRESSABLE LOOP INTERFACE

SUPPLY VOLTAGE	17 V to 30V DC
SUPPLY CURRENT	1.2mA Quiescent - 3mA Alarm or Fault

## ORDER CODE

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