ORION-BCM LSC

Addressable Battery/Charger Module w/integrated Loop Sounder Controller (LSC)

The ORION-BCM LSC is a Self Contained EN54-4 certified Battery Charger Module with a Conventional Sounder Circuit driver that is designed to be also controlled and monitored through GFE addressable loop. Additionally it houses internal Alarm and Fault relays.

With a simple interface to the analogue detection loop of any of our GFE analogue addressable panels, the ORION-BCM LSC provides an effective and practical remote Conventional Sounder Circuit increasing Alarm Power Output Capability. Activation of sounder output can be programmed in addressable system cause-effect logic and directly at the ORION-BCM (access code required).

An enhanced internal monitoring system continuously monitors all parts of the system ensuring proper fault detection and warning. Additionally to local notification, status is also reported to addressable system.

- Sounder Circuit Integrity Fault
- Battery Charger Fault (voltage level and charging behavior)
- 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).

MAIN FEATURES

- Direct activation inputs over the Fire Relay 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 acknowledges (control)
- Two relays output for Fault (NC) and Fire (SPDT) signal - unmonitored
- Supervised 24V Supply Output with 900mA capability
- EN54-4 certified.

Technical Specs

POWER SUPPLY	
MAINS SUPPLY VOLTAGE	230 +10% -15% V AC
INTERNAL POWER SUPPLY	Min. 21 V DC - Max. 30 V DC (28.5 V DC nominal) Max. Ripple 1 V peak-peak
TOTAL OUTPUT CURRENT	1,7 A @ 230 V AC
SUPPLY AND BATTERY CHARGER MONITORED	YES
BATTERIES MONITORED	YES
BATTERIES MAX. INTERNAL RESISTANCE	1 Ohm
MAX BATTERY SIZE	2 x 12 V 7AH VRLA - Sealed Lead Acid Batteries Min. Voltage 21,0 V DC (Vb min) - Max. Voltage 27,2 V DC
MAINS FUSE	4 A - 250 V Slow Blow - 20 mm
BATTERY FUSE	1.6 Amp Resettable - Electronic Fuse
MAX CURRENT DRAW FROM BATTERY (MAINS FAIL)	1.5 Amp Max. @ Max. Operating Temperature
SOUNDER CIRCUIT	
NUMBER OF CIRCUITS	1
END OF LINE RESISTOR VALUE	10 K Ohms
MONITORING	Open and short circuit
ALARM VOLTAGE	27.5 V DC
SOUNDER CIRCUIT FUSE	1.1 Amp resettable (Electronic Fuse)
MAX. CURRENT AVAILABLE	900 mA @ 27,5 V DC Nominal
AUXILIARY OUTPUTS	
DC POWER OUTPUT	27.5 V DC Nominal - Max. Current Drawn 900 mA
FIRE RELAY	Active in Fire condition, load 30 V DC/1A resistive, SPDT
FAULT RELAY	Active in Fault condition, load 30 V DC/1A resistive, NC
DIMENSIONS	
SIZE	273 (L x 107 (W) x 404 (H) mm
WEIGHT	1,7 Kg / 7kg (inc. 2 x 7 AH 12 V batteries)
OPERATING TEMPERATURE	-10 to +50ºC
MAX RELATIVE HUMIDITY	95% non condensing
ADDRESSABLE LOOP INTERFACE (ADLI PCB)	
SUPPLY VOLTAGE	Loop Powered - 17 V to 30 V DC
SUPPLY CURRENT	1.2 mA Quiescent - 3 mA Alarm or Fault

ORDER CODE	
ORION-BCM LSC	ADDRESSABLE BATTERY/CHARGER MODULE W/INTEGRATED LOOP SOUNDER CONTROLLER (LSC)