IDP-LB1

Loop Booster

Section: Intelligent/Addressable Devices

FEATURES

- **Expands the capacity of 'alarm' devices on a loop**
- **Addressed as a module, in the range 01 to 99**
- **Self-contained standby batteries**
- **Two section enclosure allowing first fixing separate from electronics and front cover**
- **The Loop Booster has LEDs to indicate:**
  - ✓ **Main power on**
  - ✓ **Loop Address polling active**
  - ✓ **Loop Isolator open on loop in either direction**
  - ✓ **Loop voltage below 16V**
  - ✓ **Fault Condition**

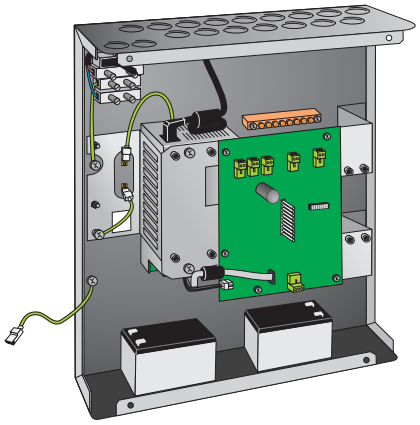
GENERAL

The Loop Booster provides additional power to an analogue addressable loop in order that a greater number of loop powered warning devices may be connected. As an addressable device a number of loop boosters can be added to a loop within the normal addressable range (01 to 99). Typically no more than 2 loop boosters are required be added to any particular loop.

The provision of Loop Boosters allows extensions to existing systems where the loop loading would normally be exceeded.

The Loop Booster has been designed to be connected to mains power (230VAC) with two 12V, 12 Ah sealed lead-acid batteries providing up to 72 hours standby.

If the loop booster battery charging voltage falls below 21V, the batteries are disconnected automatically to prevent damage.



INSTALLATION

The IDP-LB1 is housed in a mild steel enclosure with a centre top and two bottom corner fixings allowing the unit to be mounted level. 'Knock-outs' are provided on the top to allow for cable entry. Space is provided for two 12V, 12Ah batteries and the unit is finished with a detachable door.

This document is not intended to be used for installation purposes. Every care has been taken in the preparation of this document but no liability can be accepted for the use of the information therein. Design features may be changed or amended without prior notice. For more information, contact **NOTIFIER.** Charles Avenue, Burgess Hill, West Sussex, RH15 9UF. United Kingdom Phone: +44 (0) 1444 230 300 Fax: +44 (0) 1444 230 888

ISO9001
Design, Manufacture and Supply to Quality Management Systems Certified to ISO9001:1994

Quality Systems Certificate No. 154 Assessed to ISO9001

SPECIFICATIONS

- **Dimensions**
  - ✓ Width: 380mm
  - ✓ Height: 365mm
  - ✓ Depth: 106 mm (with cover in place)

- **Environmental Limits**
  - ✓ Operating Temperature:

    -5°C to +45°C
  - ✓ Humidity:

    5% to 95% R.H.
  - ✓ Vibration:

    EN60068-2-6, 10-150 Hz at 0.981m/s²
  - ✓ EMC

    Emissions EN50081-1

    Immunity EN50130-4
  - ✓ Safety

    EN60950

- **Electrical Conditions (PSU3A)**
  - ✓ Input Voltage: 230Vac, ±15%, 48-63Hz
  - ✓ Maximum current consumption: 1.6A.

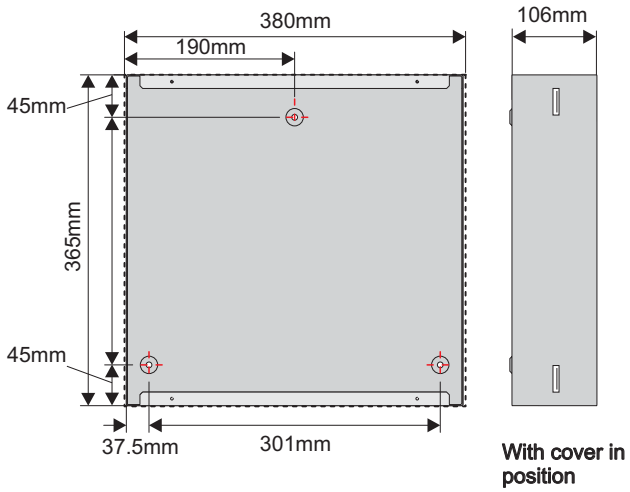
- **Battery Charger Output Ratings (PSU3A)**
  - ✓ Battery voltage when charged: 27.3V at 20°C
  - ✓ Charger current: 2.2A

- **Loop Current**
  - ✓ Quiescent (no faults) 1.0mA.
  - ✓ Quiescent (maximum) 6.7mA*.

* In alarm the loop booster supplies current to the loop (peak 1.5A)

ORDERING INFORMATION

Part No.	Description
002-629	IDP-LB1 Loop Booster
Spares	
020-751	Loop Booster (replacement pcb kit)
020-648	PSU3A replacement power Supply Unit.



Wiring Diagram

