

## SPH.11 CIRCUIT CONTROL MODULE Bus-Wire Free Mainsborne Communication System



### Main Features

- Full addressability with complete independent control of each output.
- Switches up to 4 separate lighting circuits on any phase combination.
- Self-powering from any live input circuit, no separate supply required.
- Flexible configuration via SPECS Manager graphical software.
- Output status LEDs.
- Built in emergency test support.
- Override test switches.
- Socketed SL relays.
- Large 6.35mm pitch terminals.

The SPH.11 Circuit Control Module enhances the SPECS3 lighting control system by allowing fixed circuit areas such as stairwells, toilets, lobbies and corridors to be controlled from the system. Each SPH.11 will control up to four 10amp lighting circuits on any phase combination.

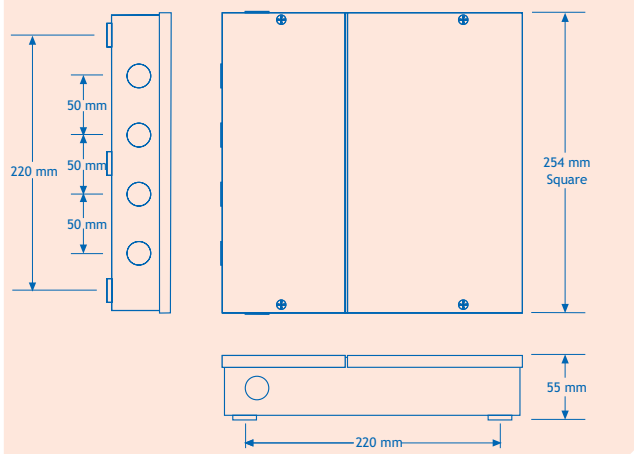
The SPH.11 is fully addressable, each of the four outputs can be controlled fully independently. Four LEDs are provided to indicate the status of each Switched Live Out.

The module is controlled using an advanced message format that includes error detection and self-correction, either using the mains wiring itself or two independent cores called SPECS O-Bus.

### Output Wiring

Wiring to the module is simple, each control output has its own five way terminal block providing; Live In, Neutral In, Switched Live Out, Neutral Out and Permanent Live Out. Permanent Live Out should be used as the permanent or 'maintained' supply to emergency lighting battery packs. For the purpose of testing emergency lighting packs each SPH.11 output has an extra relay that can break the Permanent Live Out supply.

### General Specification



**Supply:** 230VAC, 50Hz

**Rating:** 10 Amp Nominal, see overleaf

**Weight:** 2kg

**Tamb:** 0 to 40°C

## Location and Housing

The SPH.11 module has a rugged grey powder coated steel construction with 3 fixing points and multiple 20mm conduit entries making it suitable for installation in the electrical riser cupboard. Removing lower part of the two-part lid gives access to the wiring area only. The upper lid should remain in place to protect the control circuitry.

## Installation

Supplied pre-numbered with its own 4 digit unique address and lighting circuit reference, this information should be used to ensure that each module is fitted and wired at the correct location as given on building drawings.

Each output terminal block is clearly identified and marked as follows:

- Lin: Live In
- PL: Permanent Live
- SL: Switched Live Out
- N: Neutral
- N: Neutral



Do not remove upper lid, use keyhole fixing on reverse.

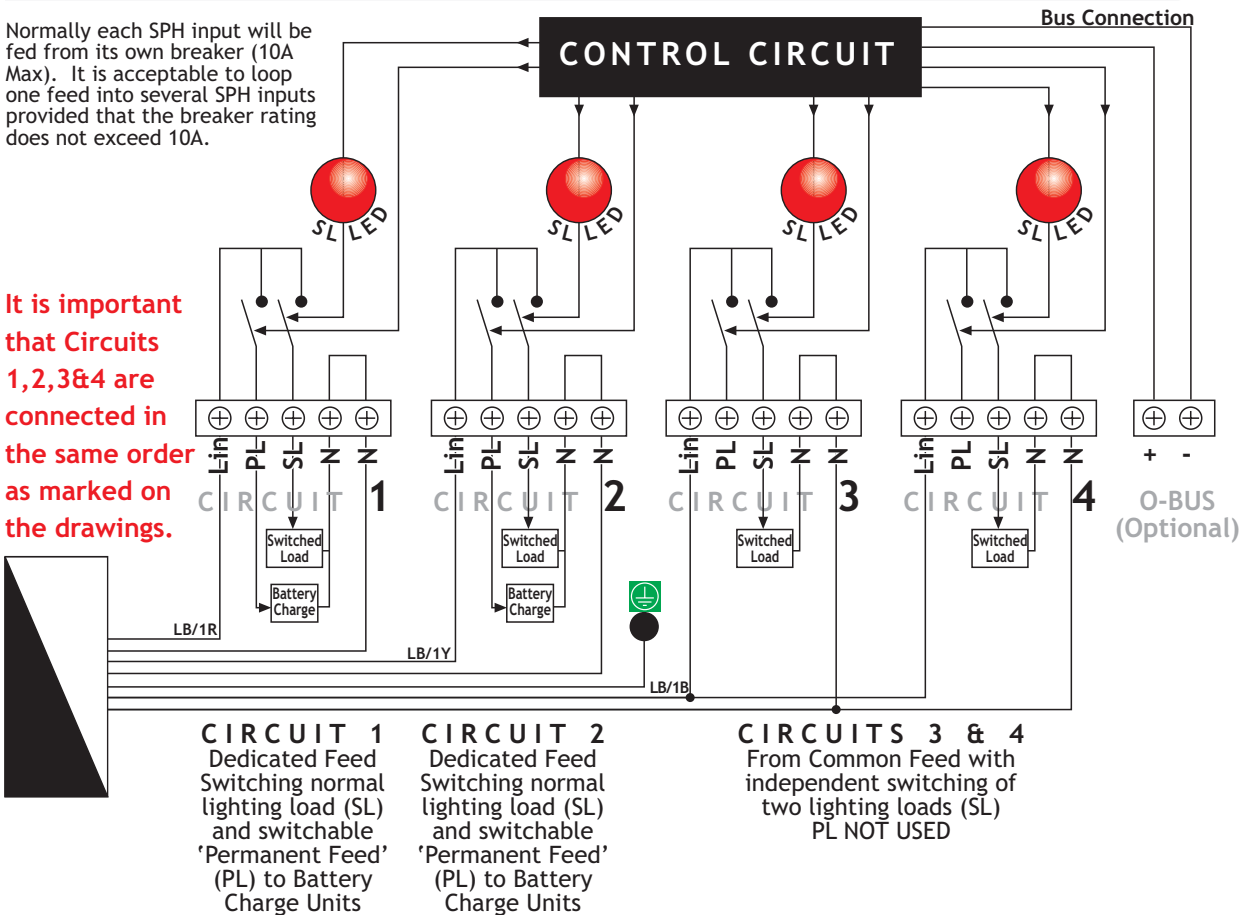
Optional O-Bus connection.

Two bottom fixings and one central blind keyhole make mounting simple. Alternatively mount the module to trunking using conduit couplers/bushes, this arrangement will generally remove the need for wall fixing.

## SPH.11 Wiring Schematic and Example

Normally each SPH input will be fed from its own breaker (10A Max). It is acceptable to loop one feed into several SPH inputs provided that the breaker rating does not exceed 10A.

It is important that Circuits 1,2,3&4 are connected in the same order as marked on the drawings.



Part No.	Description
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SPH.11	Circuit control module, 4 individually addressable outputs.
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