

Introduction to Whitecroft Link

The Whitecroft Link lighting control system comprises of a comprehensive range of occupancy sensors, LCM's and lighting control equipment designed to provide optimum lighting conditions, controllability and flexibility for projects of any size.

Whitecroft Link is a scalable system, this can be as simple as a stand alone LCM through to a fully networked bus based system which is based upon distributed intelligence using our bus power supplies. There is no central or area controllers, all intelligence is held in the local controls devices in non-volatile memory. The bus is a proprietary two-wire communications protocol that connects all controls devices so that they can share occupancy and control information, daylight control is independent at each sensor giving accurate local maintained illuminance. The simplicity of this control philosophy leads to a system that is extremely reliable, easy to commission and re-configure.

System reliability is supported by the optical isolation of the bus network at each device. However, this limits the extent of a basic network to 200 devices (sensors, scene plates and programmable LCMs) and necessitates the use of a Bus Power Supply our LKBPS. Larger systems can be constructed by linking our LKBPS bus power supplies together (max 99).

Control Features:

- Occupancy control, daylight control, scene control and manual control
- Corridor linking, individual luminaire control, grouped luminaire control and building wide control capabilities

Additional Equipment Features:

- AV Interface

Whitecroft Link Technical Data

Cable spec

- Bus Cable: Two-core multi-stranded twisted pair cross-sectional area *1.5mm², Unscreened, 600/1000V rated, LSOH insulated
- Spine Cable: Belden cable type 9502NH. The spine should be wired in a daisy chain - spurs from the Spine are not permitted. Maximum length = 1000m

LKBPS Bus Power Supply

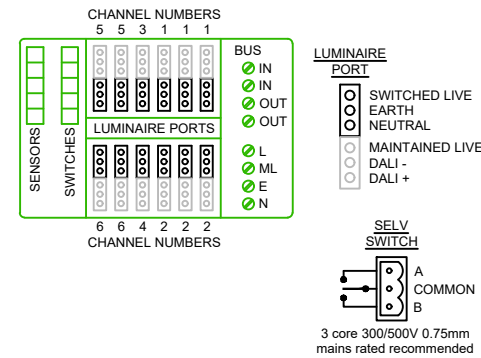
- Operating Voltage: 230V~
- Max linked LKBPS: 99
- Max devices per LKBPS: 200
- Dimensions: 213mm x 185mm x 117mm
- IP 65

Sensors

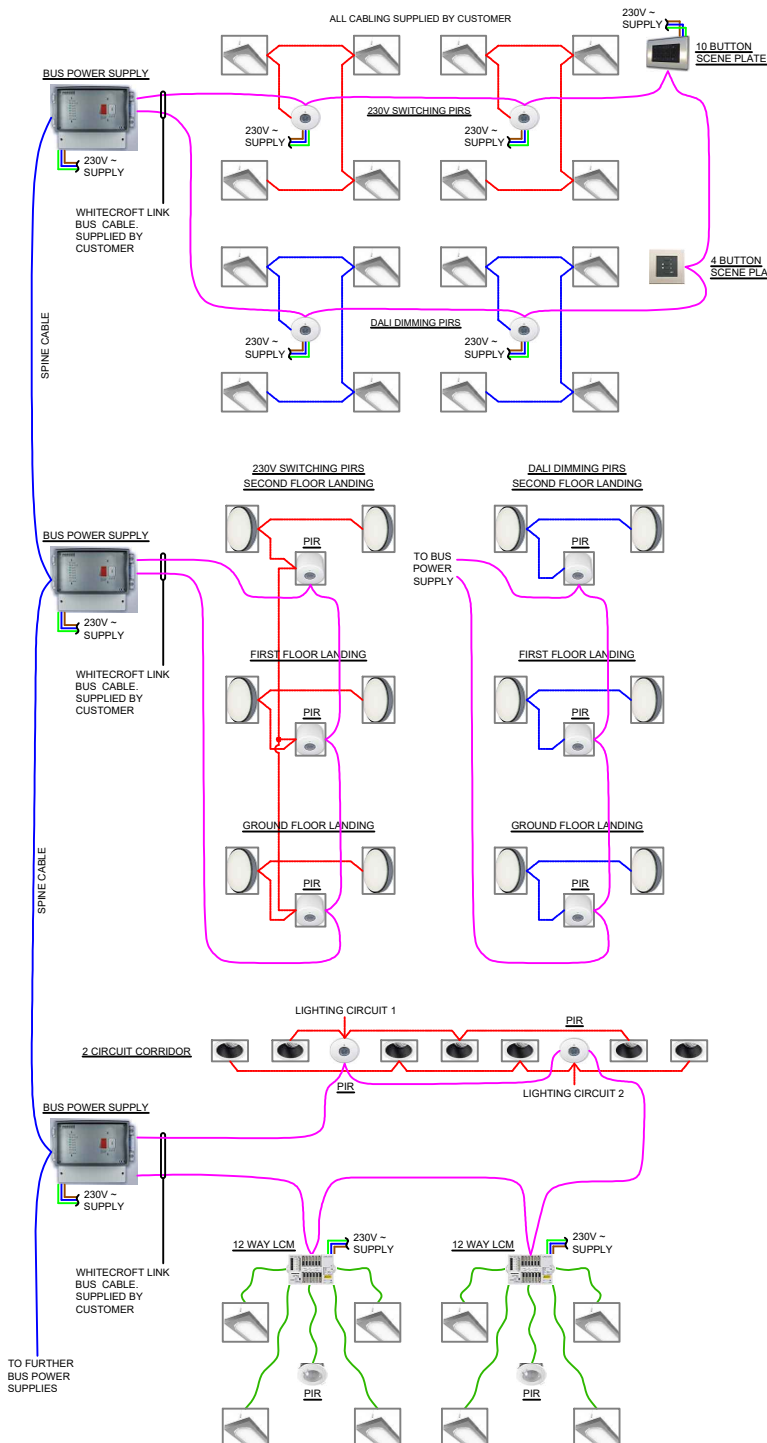
- Note: to create surface mount sensor order a recessed with SLPSMK surface mount kit. To create a wall mount sensor order a recessed with SLMWMK2 wall mount kit.

Programmable 12 port LCM

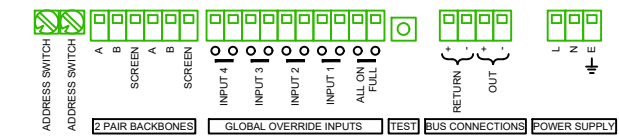
Our 12 port programmable LCM has 5 SELV sensor RJ45 ports and 5 SELV switch connections (screw terminals). The ports are arranged in 6 channels.



Whitecroft Link Networked System



LKBPS Bus Power Supply Terminations



Global Override Inputs

Our LKBPS Bus Power Supply has five pairs of switch input terminals, compatible with Latching n/o or retracting push to make switches.

All on Full: When the switch is made all devices on the bus turn on. When release devices go to their entry scene and time out.

Input 1: Emergency Test; when the switch is made our bus linked Whitecroft Link programmable LCM's will drop their connection to the maintained live. Please Note: where self test fixtures are being used please consult manufacturers datasheets for compatibility.

Input 2: Load Shed 2; when the switch is made all devices programmed to 'Global Address 2 Rx: YES' will turn off. When the switch is released the devices will remain off in standby mode awaiting occupancy.

Input 3: Load Shed 1; this is as Load Shed 2 but for 'Global Address 1 Rx: YES'

Input 4: LCM Reset; when the switch is made this will simulate an override off on any bus linked LCM that has a switch hard wired to it. If area occupied via presence/absence detectors the lights will be held on.

Note :- All information detailed in this document is **not** project specific, and is provided as a typical example only. Whitecroft Lighting reserve the right to make changes to Equipment and Specification as required. It is the customers responsibility to verify the required specification on a project by project basis.

Whitecroft Link
Technical Application
Note
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Whitecroft
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