

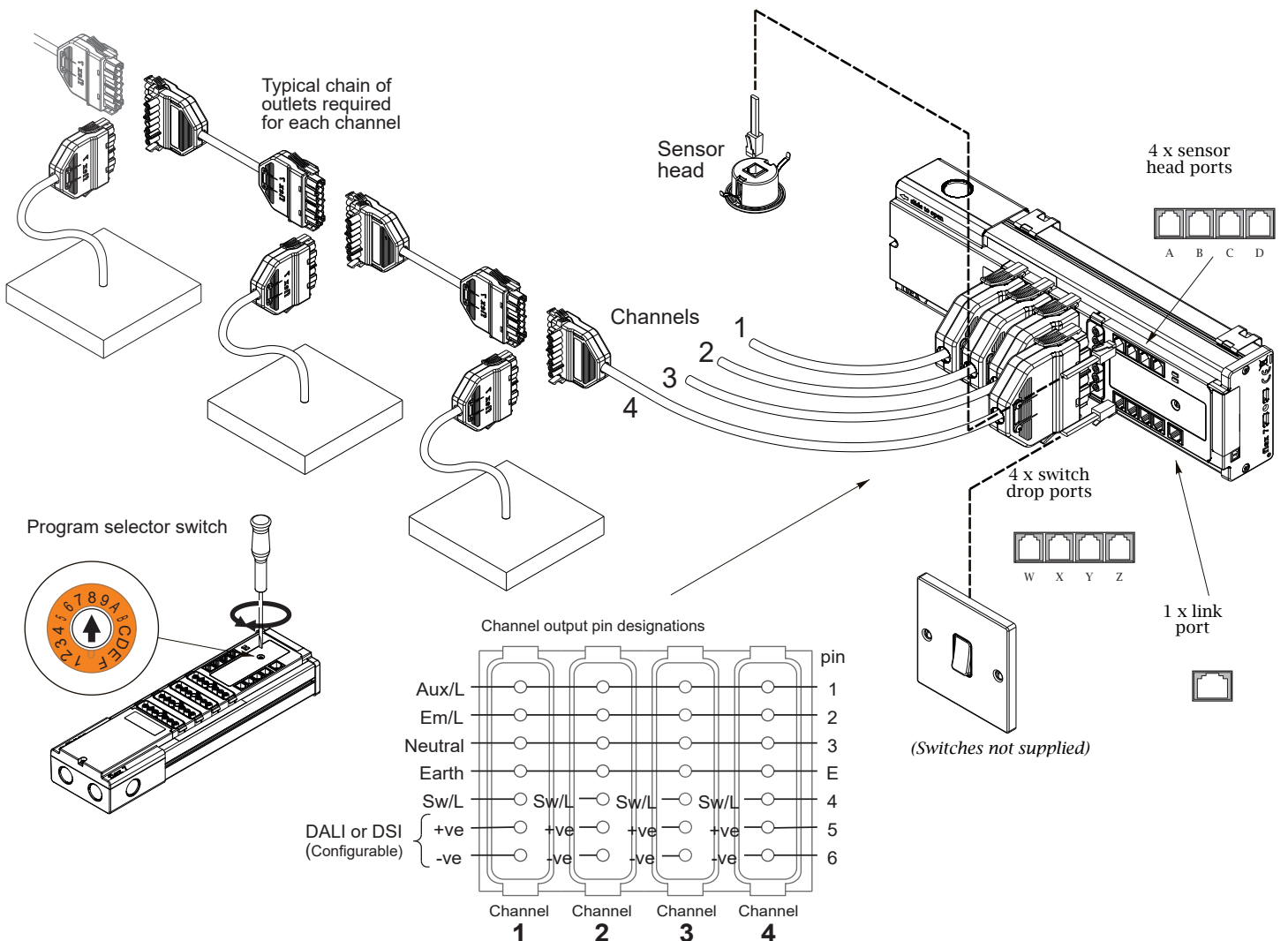
Thank you for purchasing the Flex7 Conference kit.

The ZoneLite Conference kit is an all in one conference room lighting solution. Comprising of a Flex Connectors' ZoneLite, and the FSS scene setting panel. The kit allows for the control of 4 lighting channels. There are 2 types of lighting solutions to choose from. Simply follow the specific installation instructions for the ZoneLite (next page) and scene panel (page 16). Then select the desired lighting configuration.

To set the ZoneLite to the operational configuration that best fits your lighting application, please select the correct configuration from the 2 conference applications illustrated within this configuration booklet.

This product should only be installed by a qualified electrician.

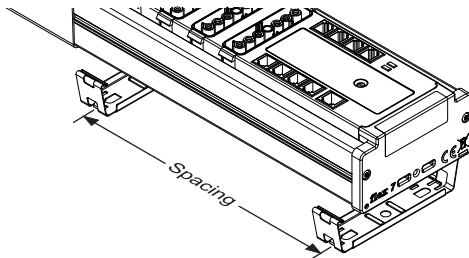
NO	ITEM
1x	FZLxxxxxxx ZoneLight
1x	FSS04xxx Scene setting panel
2x	fsl05 Sensor lead
1x	fzh/pir Sensor head
1x	fzl/rc Remote control



Installing ZoneLite

BRACKET SPACING GUIDE	
Outlets	Spacing /mm
4 way	190 ±10
16 way	490 ±10
20 way	590 ±10

ZoneLite (4 way shown)



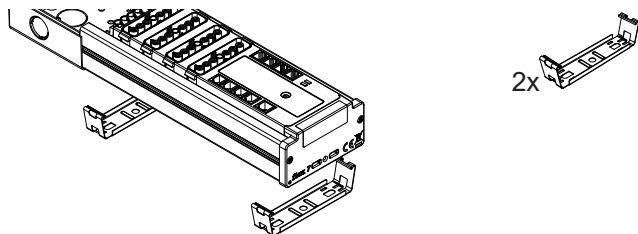
Supplied accessories pack contained under lid

Knock-outs: 20mm (x4) & 25mm (x1)

FIXING OPTIONS

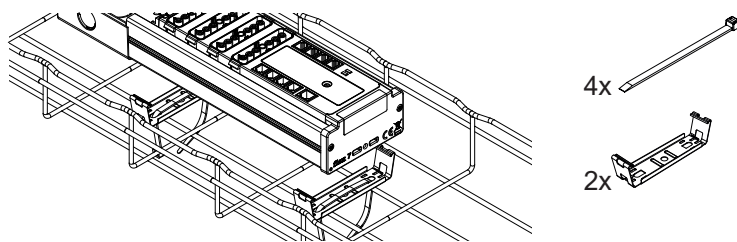
Fixing to a solid surface

- At the appropriate spacings (see Bracket spacing guide) secure each bracket to the surface with a single screw (not supplied).
- Prior to snapping-in the ZoneLite unit, remove appropriate knock-outs for cable/conduit entry.
- Clip the ZoneLite unit securely into the fixing brackets.



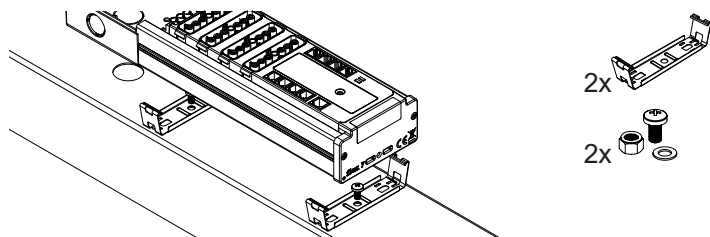
Fixing to a cable tray/Wire basket

- At the appropriate spacings (see Bracket spacing guide) secure each bracket using tie wraps.
- Prior to snapping-in the ZoneLite unit, remove appropriate knock-outs for cable/conduit entry.
- Clip the ZoneLite unit securely into the fixing brackets.



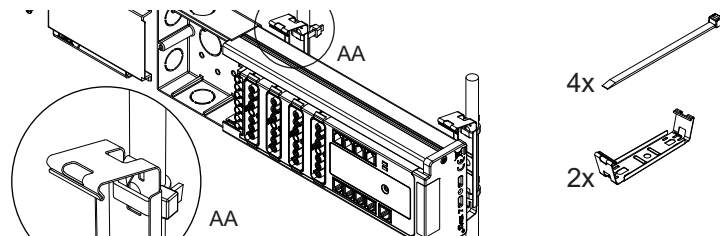
Fixing to trunking

- At the appropriate spacings (see Bracket spacing guide) secure each bracket using fixings supplied.
- Prior to snapping-in the ZoneLite unit, remove appropriate knock-outs for the cable/conduit entry.
- Clip the ZoneLite unit securely into the fixing brackets.



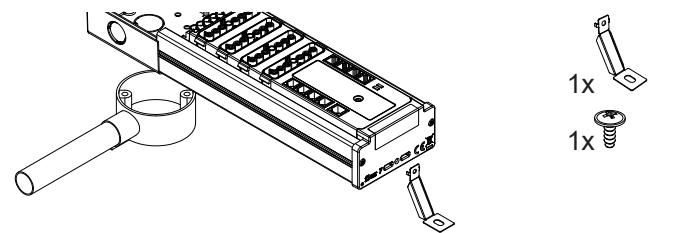
Fixing to drop rods

- Ensure drop rods are pitched at the appropriate spacings (see Bracket spacing guide) and secure each bracket to a drop rod using two tie wraps for each drop rod.
- Prior to snapping-in the ZoneLite unit, remove the appropriate knock-outs for cable/conduit entry.
- Clip the ZoneLite unit securely into the fixing brackets.

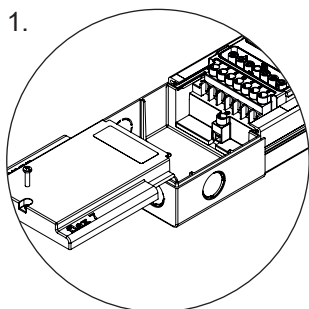


Fixing to conduit box

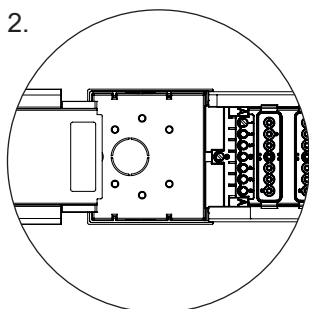
- Remove knock-out on base of wiring box for cable entry.
- Locate and secure the ZoneLite unit onto the conduit box, break through the appropriate holes for the screw, (not supplied).
- Anchor other end of the ZoneLite unit, by bending and fixing the support bracket.



SUPPLY WIRING OPTIONS



Unscrew & slide open the wiring compartment.



Hard wire the supply to the required terminals.
(see opposite)

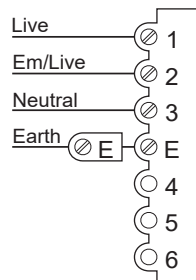
Supply wiring options

Use option A if an external emergency test method is required.

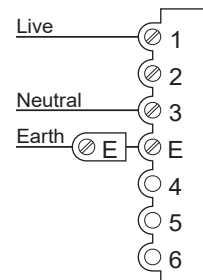
Use option B to utilise the Emergency test facility built into the ZoneLite.

Warning: 230V AC

This product should be installed and maintained in accordance with: BS 7671:2008 Requirements for Electrical Installations (IEE Wiring Regulations 17th Edition.)

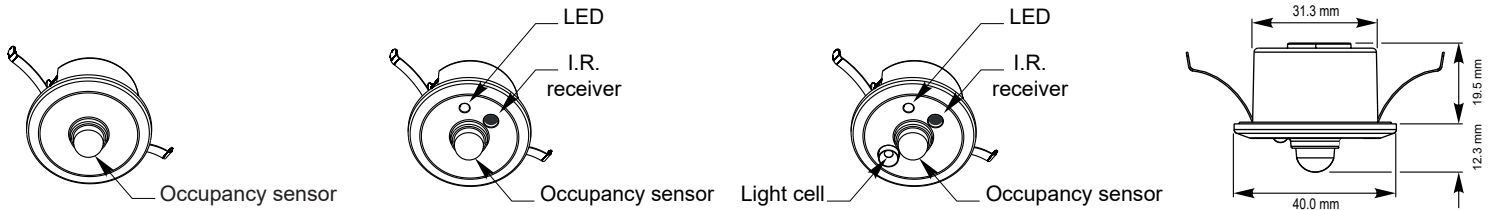


Wiring Option A



Wiring Option B

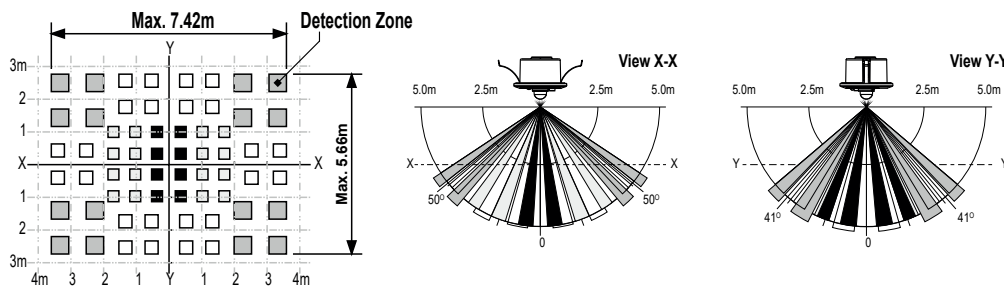
Sensor head and occupancy detection performance



The sensor head fits into a 32mm diameter hole, with clips which can grip ceiling panels down to 1.5mm thick.

The sensor head has a rectangular occupancy detection range broadly 7.4m x 5.6m at a ceiling height of 2.5m (Longest length of detection aligning with the spring clips). As the ceiling height increases so will the overall detection area but sensitivity to small movements will decrease.

NOTE: Make sure that the sensor is not adjacent to circulating air, heaters or lamps.



The X-Y cross-sectional diagram shows the detection area. The differences in the detection zone patterns indicate the projections of the 16 lenses with a single focal point. Movement of an object with higher than background temperature, between the detection zones, will be detected.

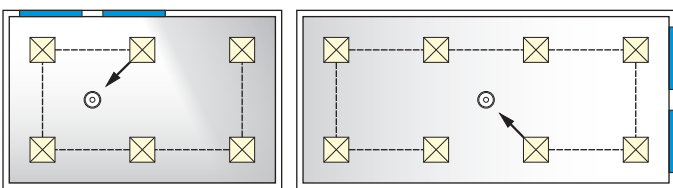
Daylight linking considerations

Working in conjunction with ZoneLite, the fzh/pir/l/s sensor head provides additional sensory data from the room. This takes the form of occupancy, light level and received instructions from a remote control such as the fzl/rc remote control.

Considerations.

The fzh/pir/l/s sensor head detects both occupancy and light level. However, conditions for optimum light sensing should always have priority over those for occupancy coverage. To achieve effective light level control, select only an area where the daylight contribution, though changeable, is significant and remains consistent across the area.

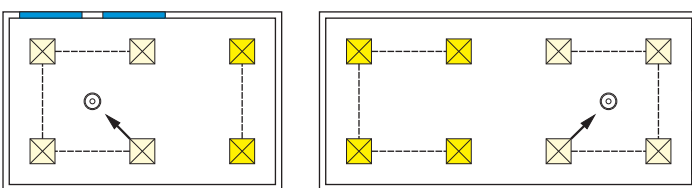
X As lamp output across the circuit must be common, it is not possible to provide the 'optimal' luminosity for all areas when some receive more daylight than others.



Note:

Make sure that the sensor is not adjacent to circulating air, heaters or lamps. Always fit the sensor head as close as possible to the centre of the group of lights under its control.

✓ Try to split into zones where the changes in daylight are reasonably consistent. Darker areas may then be controlled via alternative means such as on/off without consideration to light level. You may even consider sufficient natural light reaches

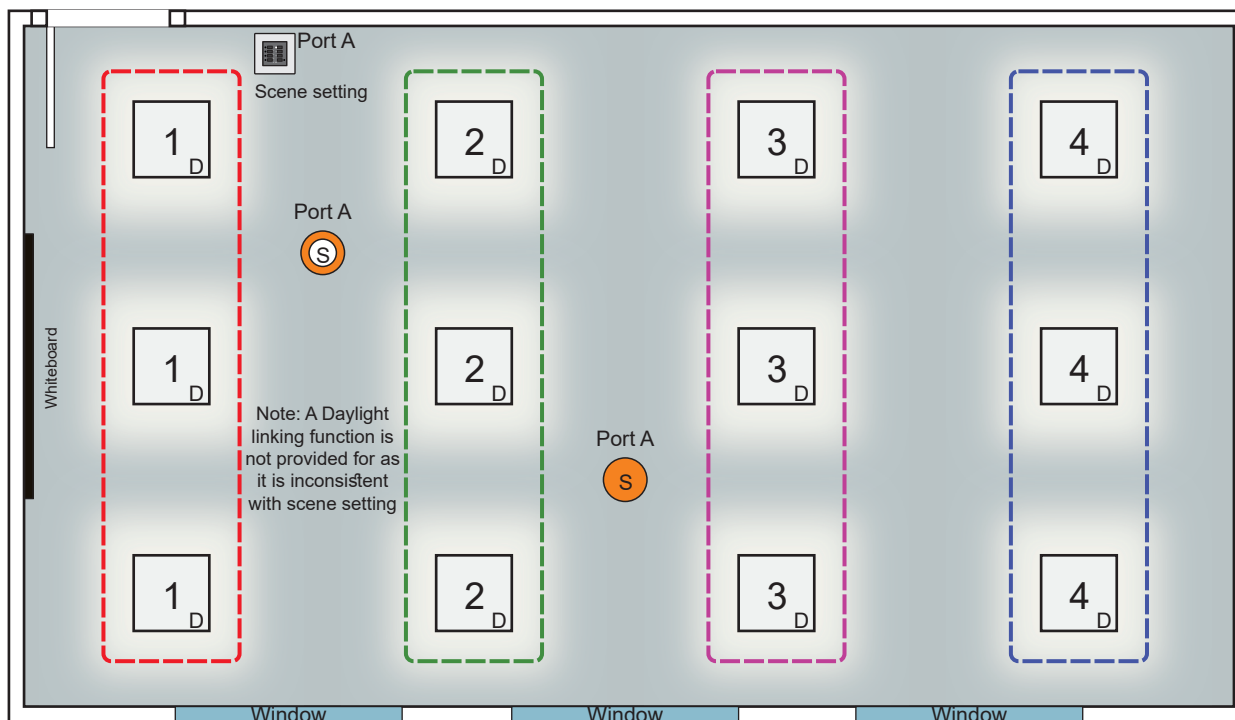


these areas to justify a second light level sensing circuit.



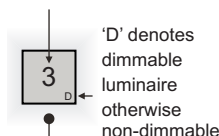
9

The scenario below and connection instructions opposite are intended to show a typical installation for this configuration. As the precise requirements of any real installation may vary, use table 1 below to help identify adaptations that may be possible and if so how they can be accommodated.



Symbol Key

The channel the luminaire needs to connect to.



Shading represents brightness (to indicate daylight linking in action)

- fzh/pir Master occupancy head
- fzh/pir/ls Master occupancy head + light sensing
- fzh/pir/sl Slave occupancy head
- fss04/_/_ Scene setting panel

Scene Setting

Using the Flex Connectors scene setting panel(not supplied) with configuration 9 provides a scene setting solution that uniquely offers the user two standard modes of operation. Simply toggle between either mode at any time.



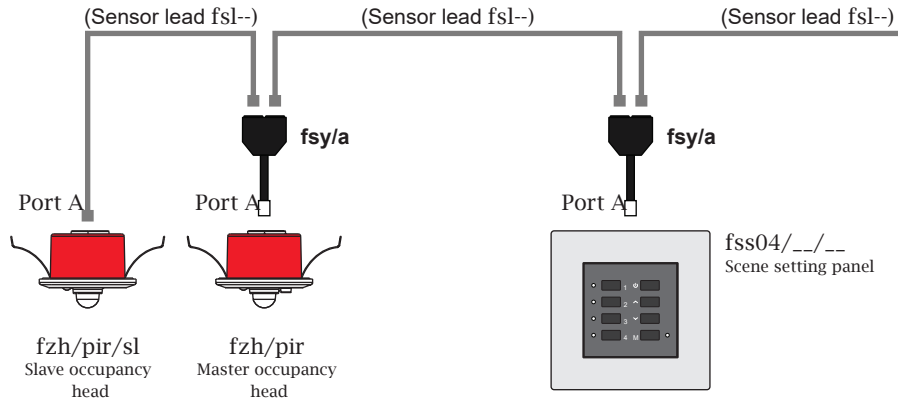
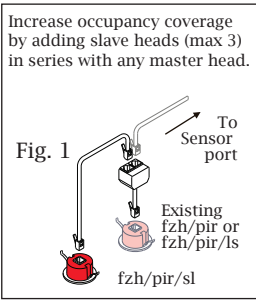
Operation [default]

Operates all luminaires - On, Off, Dim (up/down) or recall/set up scenes 1 - 4 or toggle/dim channels 1 - 4.

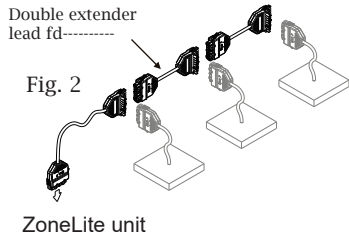


On vacation of the space any luminaires left on will switch off after an adjustable time-out period (default 20min).

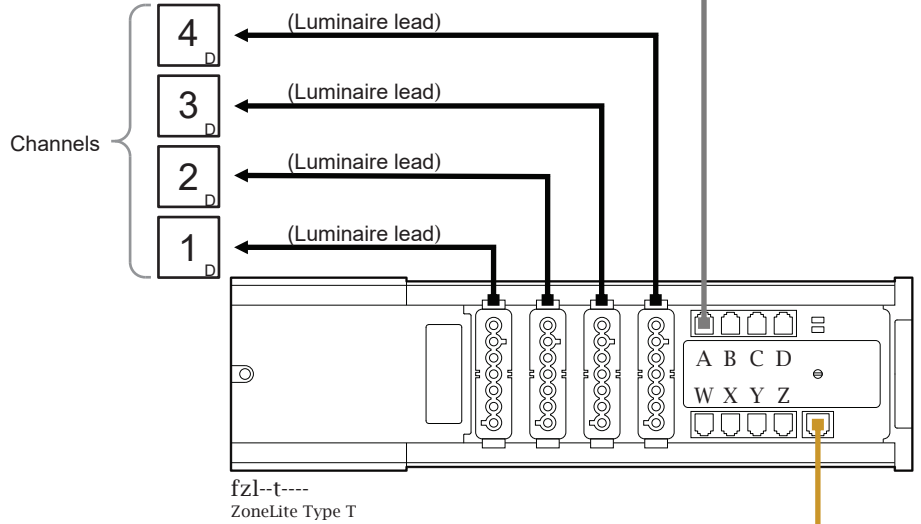
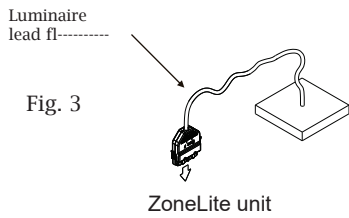
Table 1 Other available operational variations	Action
Daylight linking not required anywhere.	Fit motion only sensor head fzh/pir instead of fzh/pir/ls
There are more luminaires than available output sockets.	Add double extender leads to increase the number of available outlets on the ZoneLite Unit. (Fig. 2)
The same type of switch operation is required at more than one point in the room.	With the exception of the Mode Select switch, additional switches can be added in parallel using fsy/a 'Y' connectors and fsw-- switch drop leads.
There is insufficient occupancy coverage for the space. (range is typically 5.66m x 7.42m per head)	Add fzh/pir/sl slave heads (max 3) to the same port as the master sensor head using fsy/a 'Y' connectors and fsl-- link leads. (fig. 1)
Lights should not only switch off automatically when the room is vacated but should also turn on automatically on entry.	Enable presence detection - Setting up leaflet 22/069. Note: Lights will turn on automatically on entry only if the occupancy time out period had elapsed.
The dimming protocol of the luminaires is DSI and not DALI (or there is a mixture of both).	Each of the 4 channels output DALI by default however any or all channels can be reassigned to DSI. See Setting up leaflet 22/069
This room (and others?) require an emergency test switch facility.	Link just this ZoneLite (or multiple ZoneLites linked together) to a remote switch/s - see page 34 & 35 for further details.
This room (and others?) require a 'last man out' or 'all lights on' switch remote from this area.	Link just this ZoneLite (or multiple ZoneLites linked together) to a remote switch/s - see page 34 & 35 for further details.
Other software adjustable parameters not mentioned so far.	Various software parameters such as Time out, and more can all be adjusted using a setup remote control. See Setting up leaflet 22/069



Where the ZoneLite unit has insufficient outlets use double extender leads to create more outlets.



Where the ZoneLite has sufficient outlets use a single supply lead for each luminaire.

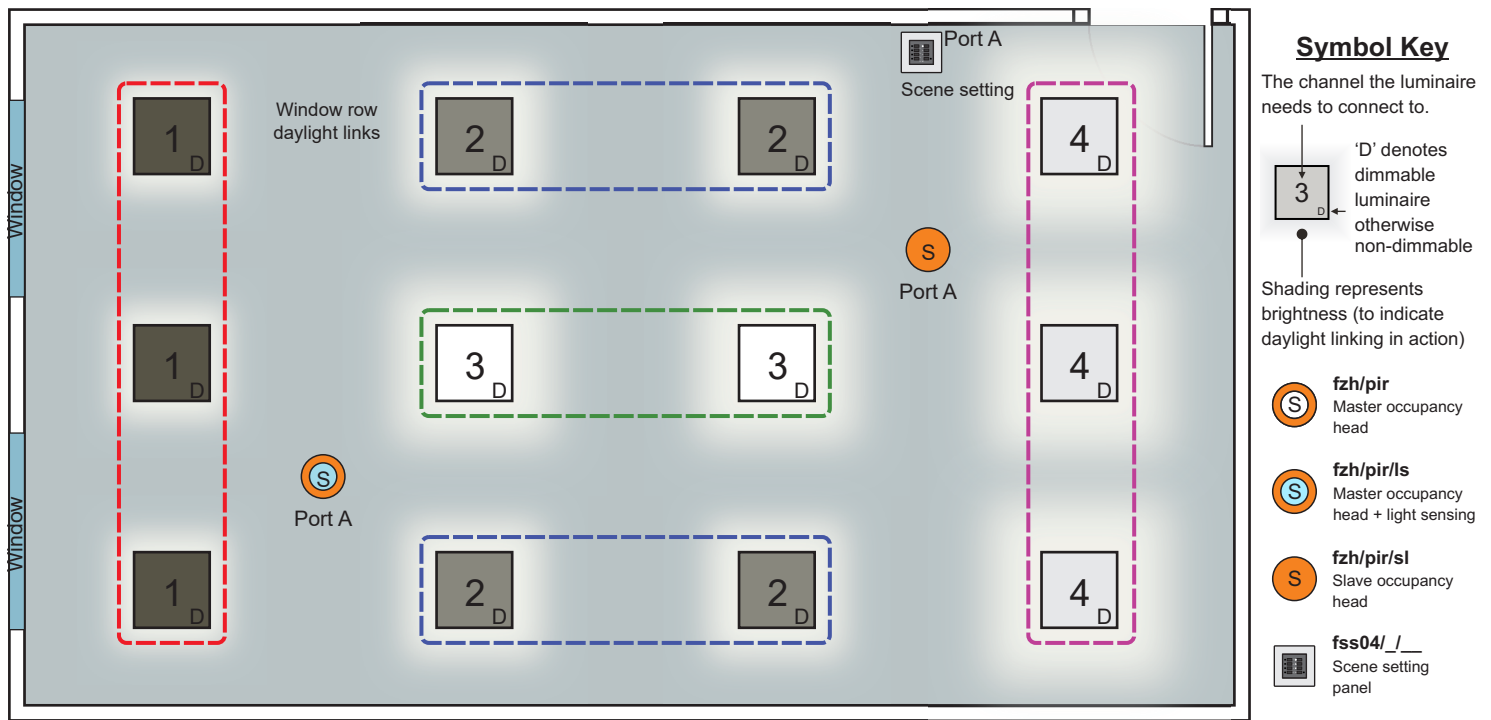


If any of Emergency Test, Last man out or All lights on switch inputs are required, or if networking between ZoneLites then please refer to 'using the link port' on page 34 & 35

(Link port lead)

TYPE G ZoneLite - Configuration A

The scenario below and connection instructions opposite are intended to show a typical installation for this configuration. As the precise requirements of any real installation may vary, use table 1 below to help identify adaptations that may be possible and if so how they can be accommodated.



Scene Setting

Using the Flex Connectors scene setting panel(not supplied) with configuration A provides a scene setting solution that uniquely offers the user two standard modes of operation. Simply toggle between either mode at any time.



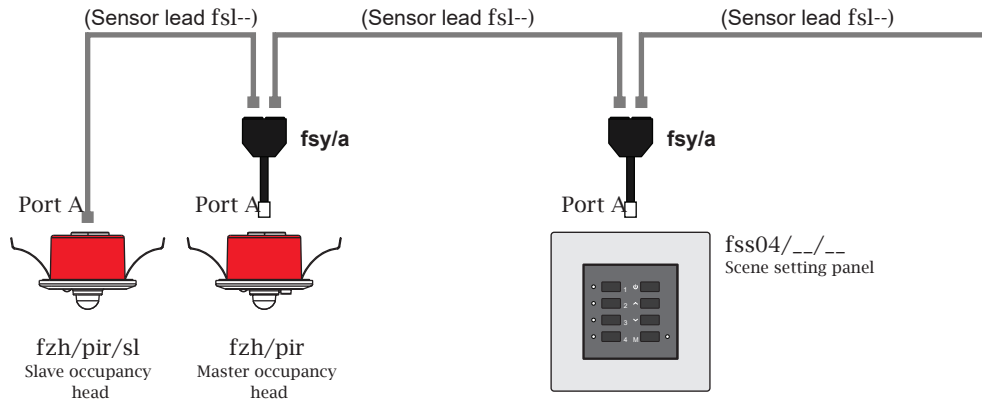
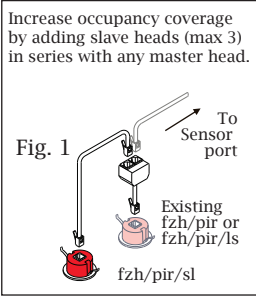
Operation [default]

Operates all luminaires - On, Off, Dim (up/down) or recall/set up scenes 1 - 4 or toggle/dim channels 1 - 4.

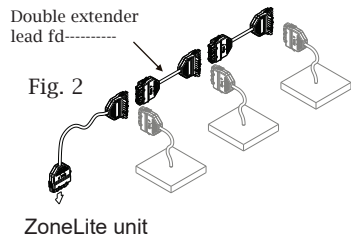


On vacation of the space any luminaires left on will switch off after an adjustable time-out period (default 20min).

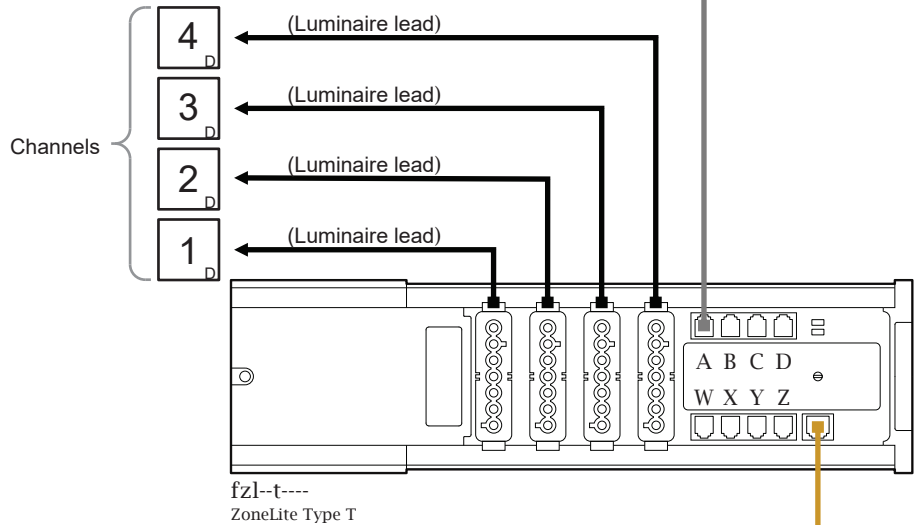
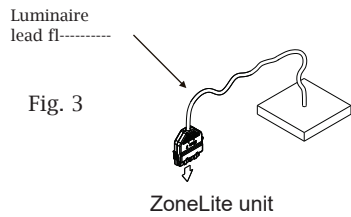
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There is insufficient occupancy coverage for the space. (range is typically 5.66m x 7.42m per head)	Add fzh/pir/sl slave heads (max 3) to the same port as the master sensor head using fsy/a 'Y' connectors and fsl-- link leads. (fig. 1)
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This room (and others?) require a 'last man out' or 'all lights on' switch remote from this area.	Link just this ZoneLite (or multiple ZoneLites linked together) to a remote switch/s - see page 34 & 35 for further details.
Other software adjustable parameters not mentioned so far.	Various software parameters such as Time out, and more can all be adjusted using a setup remote control. See Setting up leaflet 22/069



Where the ZoneLite unit has insufficient outlets use double extender leads to create more outlets.



Where the ZoneLite has sufficient outlets use a single supply lead for each luminaire.



If any of Emergency Test, Last man out or All lights on switch inputs are required, or if networking between ZoneLites then please refer to 'using the link port' on page 34 & 35

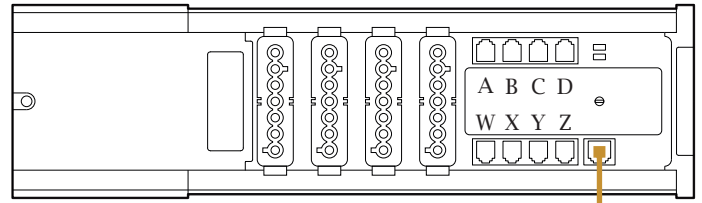
There are 3 possible global switch inputs possible using the link port.

use none, some or all of these switch inputs for global control of the zonelite's channels. these switches may be installed local or remote (at the main exit / entrance to a building for example).

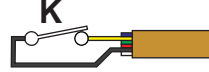
Emergency test: Switch the emergency (track) supply

Last man out: A single pulse initiates ALL sensor heads attached to the Zonelite to a one off temporary 10s timeout such that they will time out early provided no one is detected. The lights will also dim to 50% brightness. Any Channels not controlled by sensor heads will switch off immediately.

All lights on: A single pulse initiates ON all channels and takes any that were already on to full bright.



Emergency test



Last man out

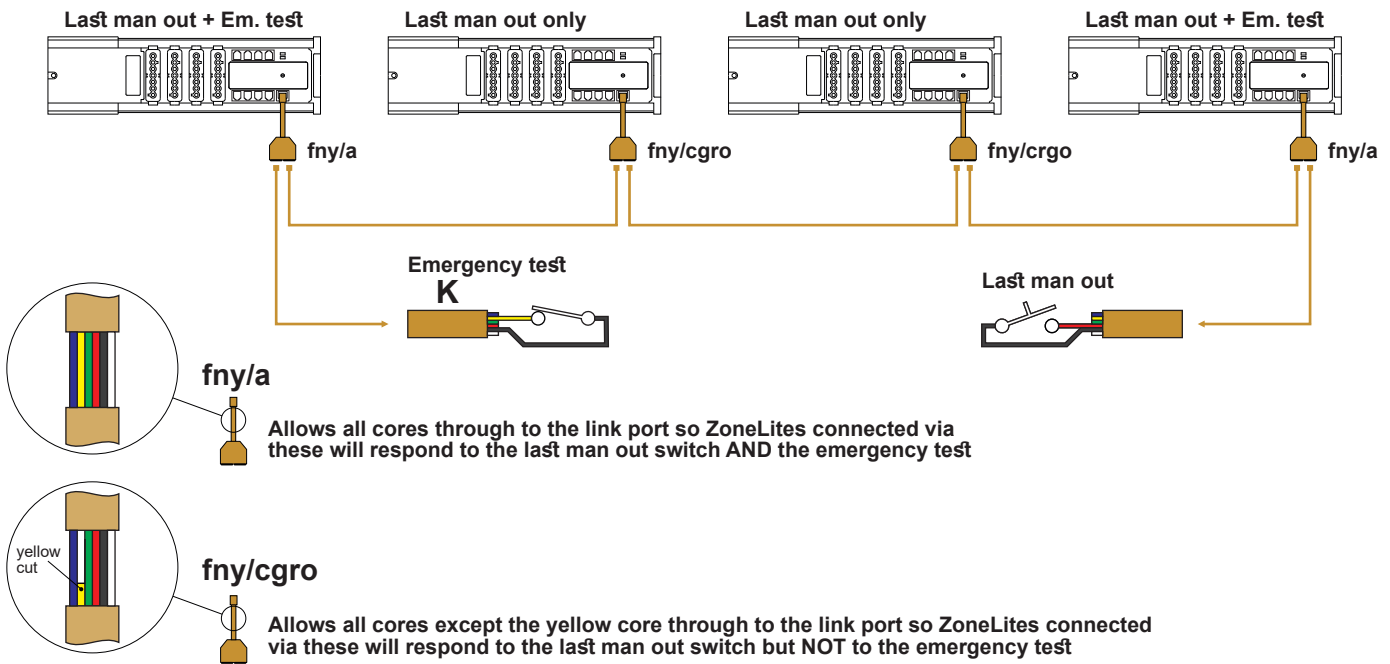
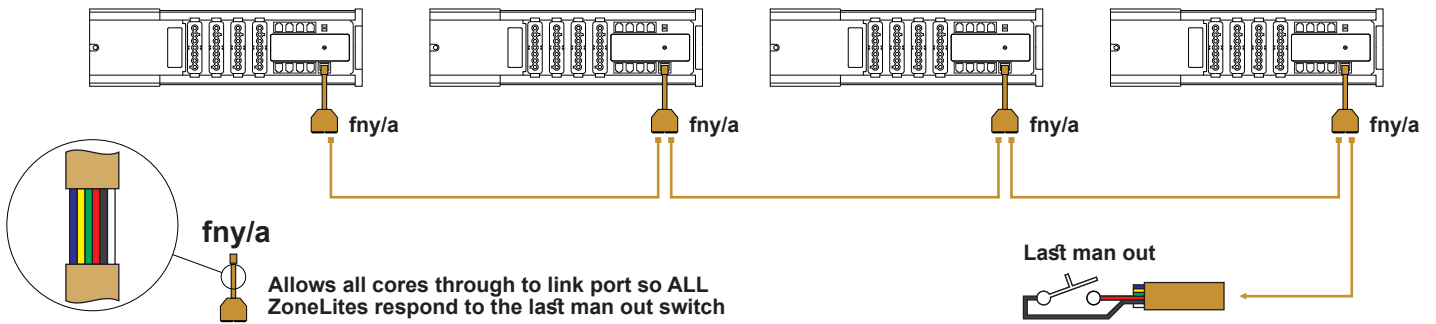


All lights On



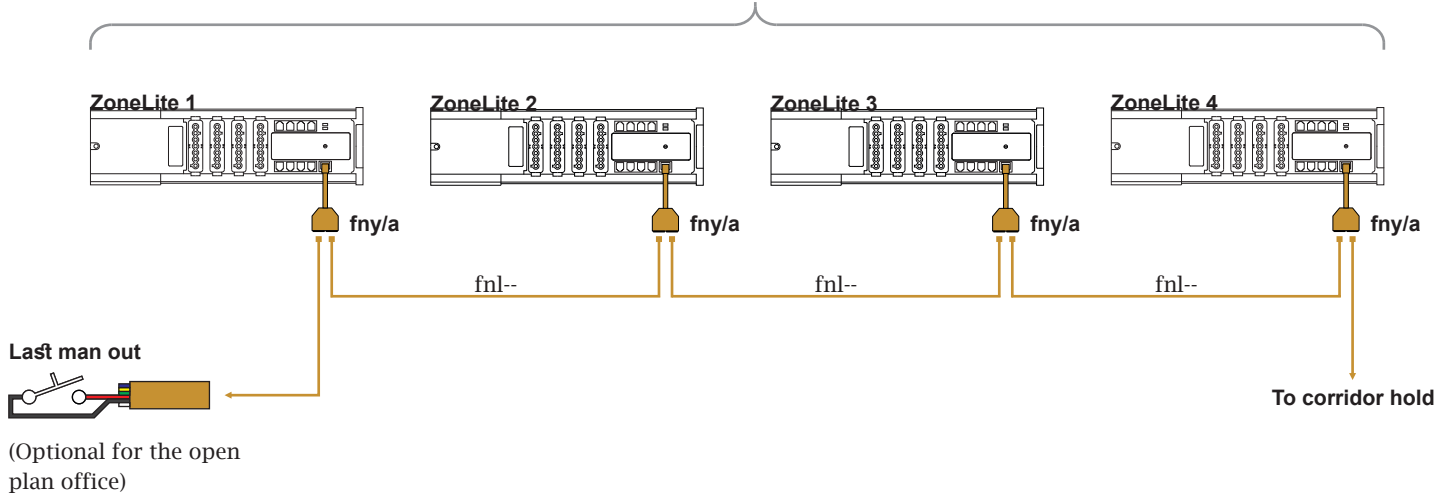
(Link switch lead fnw_...)

Note: Do not use the blue fsl_... switch drop lead in the link port - only use fnw_... leads

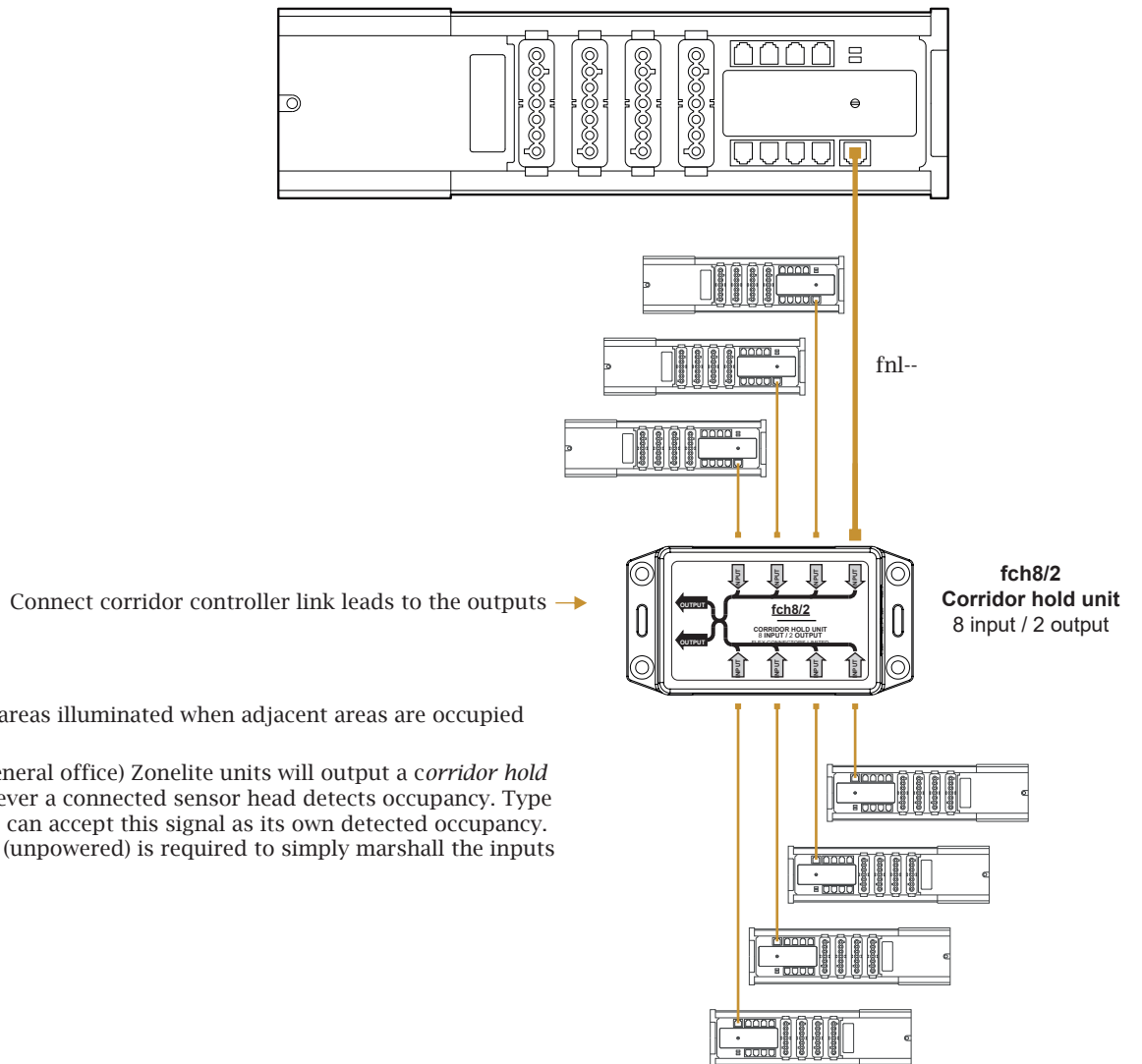


	KEY:	Special 'Y' adaptor part numbers:
	= C.....Corridor hold output	Standard network 'Y' connectors are referred to as simply fny/a however where one or more wires are deliberately cut to create specials, start with the part number fny/cgro and of the last 5 letters, remove the core colour/s that are not required. thus in the above example where the yellow wire (y) is removed the part number required is fny/cgro
	= Y.....Emergency test	
	= G.....All lights On	
	= R.....Last man out (Off)	
= O.....Occupancy input		

Open plan office



Types T or G ZoneLites only



Hold corridor and circulation areas illuminated when adjacent areas are occupied

All type T (classroom) or G (general office) Zonelite units will output a *corridor hold* signal on their link port whenever a connected sensor head detects occupancy. Type C (circulation areas) ZoneLites can accept this signal as its own detected occupancy. An fch/8/2 corridor hold unit (unpowered) is required to simply marshal the inputs and outputs.

FZL Settings

The ZoneLite has some features that can be adjusted to further suite the application. These features can be adjusted using the ZoneLite setup remote handset. Details of the parameters that can be adjusted are listed on the following sections. Please see the individual function sections for more details.

Dimming control,
 Timeout period setting,
 Sensor detection type,
 Dimming load type, (DSI or DALI)
 PIR sensitivity setting,
 Dimming offset amount,
 Burn-in control,
 Configuration settings

To change a parameter:

Firstly, press the desired function button from the 8 available functions (Dimming control to config. setting). The corresponding remote handset function LED will illuminate, to indicate that it is active.

Secondly, press the appropriate desired parameter button (1-8). When the button is released the green sensor head LED will flash the number of times according to the button pressed.

Replacement batteries: AAA x2

MANUAL DIMMING

The brightness of each of the available channels (provided dimming is enabled) can be adjusted by the ZoneLite setup remote parameter buttons.

1. While none of the function buttons are active. (All function LEDs are unlit).
2. Use the arrowed up button to brighten the lights to your desired levels. Or use the arrowed down button to dim the lights to your desired levels.

Note: You can only dim the channels that the targeted sensor head is configured to operate.

TEST MODE

The Zonelite can be put into a test mode, to enable a walk test of the lighting installation. This mode will reduce all the timeout periods within the ZoneLite to 10 seconds.

To put the ZoneLite into test mode:

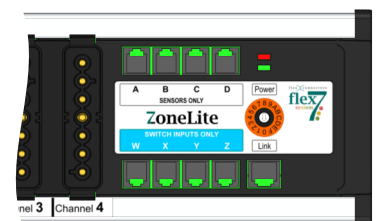
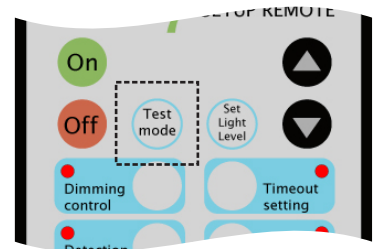
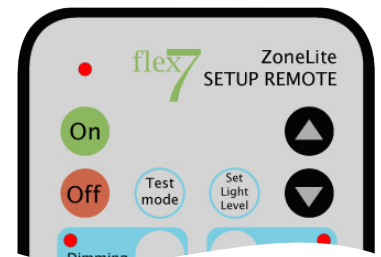
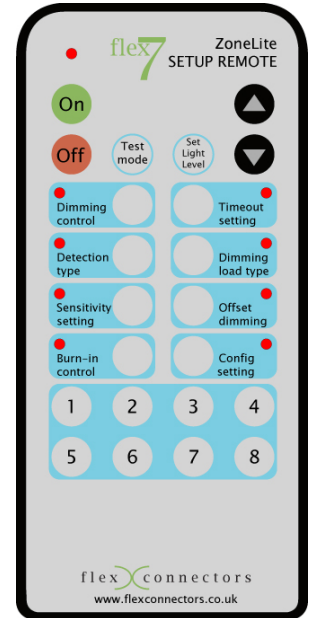
1. Press & hold the Test Mode button on the remote handset. The LED on the sensor head will rapidly flash
2. When the LED stops rapidly flashing (usually after 5 seconds), then release the button. The LED will flash twice to confirm.

To take the ZoneLite out of test mode:

1. Briefly press the test mode button for 1 second. The LED will flash while the button is pressed, and will stop when the button is released.

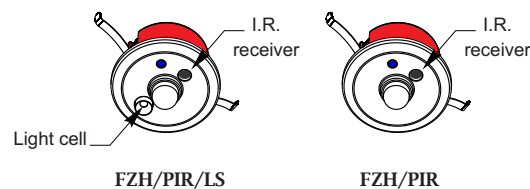
While in test mode the ZoneLite will indicate the last active switch input received. This will be indicated using the red LED on the ZoneLite. The red LED will flash according to the sequence listed in the table below to identify the last active switch input.

This is useful for identifying which port an installed switch is connected to when the physical connections can not be seen.



Switch Port input		Flashes	Switch Port input		Flashes	Switch Port input		Flashes	Switch Port input		Flashes
W	Red core	1 pause 1	X	Red core	2 pause 1	Y	Red core	3 pause 1	Z	Red core	4 pause 1
	Green core	1 pause 2		Green core	2 pause 2		Green core	3 pause 2		Green core	4 pause 2
	Yellow core	1 pause 3		Yellow core	2 pause 3		Yellow core	3 pause 3		Yellow core	4 pause 3

Required components for Daylight linking & dependency:
 Before starting ensure your sensor head is the fzh/pir/lis with the red outer casing. Check the sensor head is powered by observing the blue LED flashing whenever occupancy is detected.



DAYLIGHT LINKING OPERATION:

Lights are automatically regulated to compensate for any changes in ambient light in order to maintain a constant light level (target level) under the sensor head. Daylight linking can work in one of two ways:

- Daylight linking to min - Lights can only daylight link down to a minimum brightness (i.e. they do not switch OFF completely).
- Daylight linking to off - Lights can daylight link all the way down to OFF. More precisely - if, after 5 minutes, of daylight linking at minimum brightness and the detected light is still significantly brighter than the target-level - the lights will switch OFF completely.

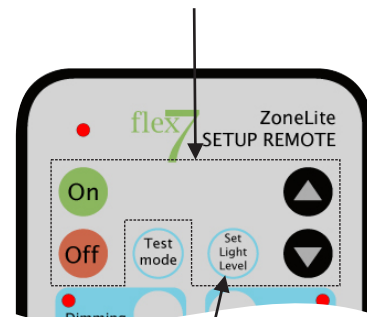
The lights will turn back ON again, if the detected light level subsequently falls below the target-level.

To setup daylight linking:

Before starting ensure your installation is complete, all lights are operational and preferably any furnishings are in their final positions.

1. Use a light meter held at arms length and at waist height so that the meter is pointing up at the sensor head (not directly into any one fitting).
2. Adjust the lights to desired level (target level) using the 'ON / OFF' buttons or if dimmable fittings, the 'Dim up / Dim down' buttons. In the event that there is too much daylight and you can not get down to the desired illumination it may be necessary to close blinds / curtains etc. or to carry out the set up at night.
3. Once satisfied with the light level, stand slightly away from the sensor and using the remote control press and hold the 'set light level' button until the LED on the sensor head stops flashing (usually after 5 seconds).
4. Then release the button and the LED will flash just once more to confirm that a light level setting will be attempted.
5. The sensor head now runs through a routine to record the light level under various conditions - this means the lights will turn 'ON' or 'OFF' and possibly dim down over a period of the next 5 - 10 seconds. The exact routine will vary depending on your type of channel control.
6. Provided this sequence was observed the target level has now been set.

Use the 'on/off' or 'dim up/down' buttons to achieve the desired light level.



Daylight linking/ dependency setup button

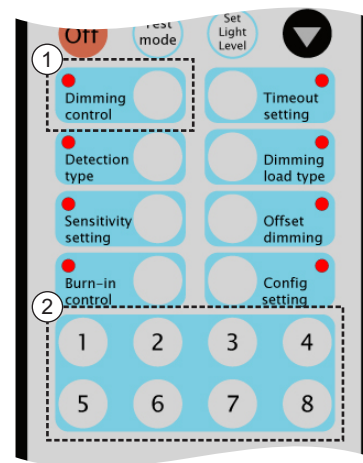
DIMMING CONTROL

The dimming control settings can enable or disable Manual dimming and/or daylight linking feature for your chosen configuration. Adjustment of the dimming control setting will only alter the channels that the targeted sensor head is configured to operate. Please see your chosen configuration.

- Manual dimming: The lights can be dimmed using either the appropriate switch drop input (provided your configuration has this feature) or via the remote control.
- Daylight link to Min: The lights will dim according the natural light level in the area, ranging from maximum brightness down to the minimum brightness set in the ZoneLite (10% default)
- Daylight link to Off: The lights will dim according the natural light level in the area, ranging from maximum brightness down to off.

To change the dimming control setting

1. Select the Dimming Control adjustment mode by pressing the Dimming Control button.
2. Use parameter buttons 1-6 to select the desired dimming control feature.



DIMMING CONTROL SETTING			
Button	Manual dimming	Daylight Link to Min	Daylight Link to Off
1	YES	NO	YES
2	YES	YES	NO
3	YES	NO	NO
4	NO	NO	YES
5	NO	YES	NO
6	NO	NO	NO
7 - 8	N.A.		

TIME-OUT:

Working in conjunction with the fzh series of sensor heads. The time-out period for the lights can be adjusted to suit the desired environment.

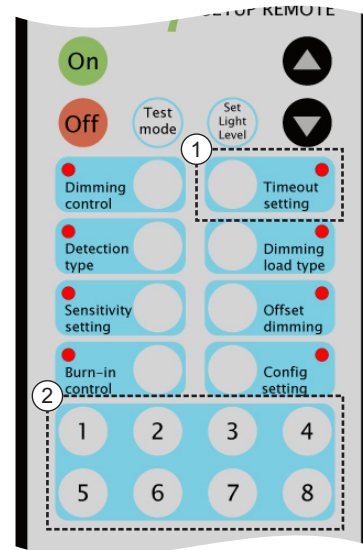
The sensor comes factory set to a 20 minute time-out period. If another time-out period (up to 60 minutes) is desired, then an fzl/rc remote control will be required. (ordered separately) 'The period of time set on a sensor that holds light/s on after the last movement is detected.'

Adjustment of the time-out setting will only alter the channels that the sensor head in question is configured to operate.

To change the time-out:

1. Select the Time-out setting mode by pressing the time-out setting button.
2. Use parameter buttons 1-8 to select the desired time-out setting.

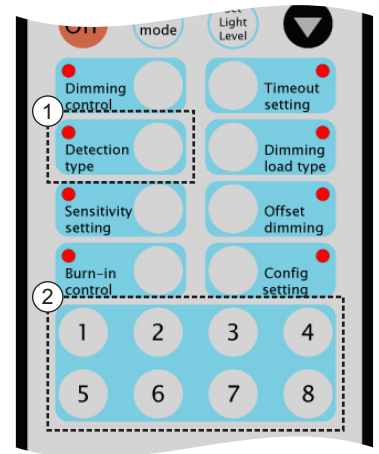
TIME-OUT SETTING	
Button	Parameter
1	2 Minutes
2	5 Minutes
3	10 Minutes
4	20 Minutes
5	30 Minutes
6	40 Minutes
7	60 Minutes
8	Disabled (Motion detection)



DETECTION TYPE

Working in conjunction with the FZH series of sensor heads and depending on the type of switch used. The detection type for the ZoneLite (channel/s) can be configured to be 1 of 3 types of motion detection.

- Absence detection (Momentary switch input required). The light/s will not switch ON, when motion is detected by the connected sensor head. The lights are initiated ON by the switch. When motion is no longer detected, the lights will switch OFF after the pre-selected time-out period.
- Occupancy detection (Presence). The light/s will switch ON, when motion is detected by the connected sensor head. Provided the lights were previously switched off after the pre-selected time-out period. When motion is no longer detected, the light/s will switch OFF after the pre-selected time-out period.
- Presence only - For specials only (Momentary switch input required). The lights need to be switched OFF by the switch. The light/s will not switch off automatically, when motion is no longer detected. When motion is detected by the connected sensor head, the lights will switch ON. Provided the lights were switched OFF by the switch & the pre-selected time-out period has finished.



To change the detection type

1. Select the detection type mode by pressing the detection type button.
2. Use parameter buttons 1-3 to select the desired detection type.

DETECTION TYPE	
Button	Parameter
1	Absence & Presence detection
2	Absence only detection
3	Presence only detection (Specials only)



OPTIONAL EXTRAS - INCREASING DETECTION COVERAGE

Occupancy coverage can be increased by adding up to a maximum of 3 slave sensor heads (fzh/pir/sl) to your existing sensor head. The fzh/pir/sl can be ordered separately and comes complete with a 'Y' adaptor to facilitate connection. A connecting lead may also be required, part number fsIXX (XX = length /5m).

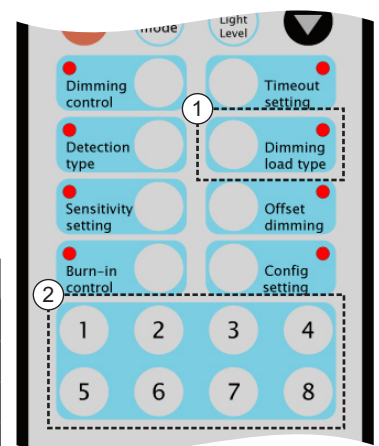
DIMMING LOAD TYPE

The dimming output of each of the channels can be independently switched between DSI or DALI.

To change the dimming load type

1. Select the Dimming load type mode by pressing the Dimming load type button.
2. Use parameter buttons 1 - 8 to select the desired dimming output.

DIMMING LOAD TYPE SETTINGS	
Button	Parameter
1	Output 1 set as DSI
2	Output 2 set as DSI
3	Output 3 set as DSI
4	Output 4 set as DSI
5	Output 1 set as DALI
6	Output 2 set as DALI
7	Output 3 set as DALI
8	Output 4 set as DALI



SENSITIVITY SETTING

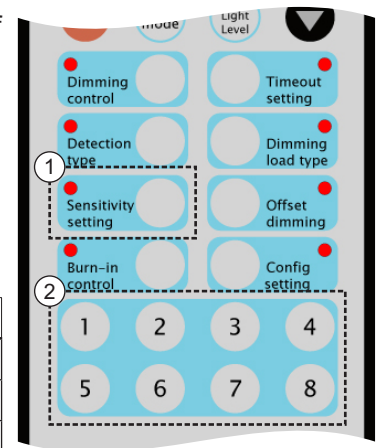
If required, the sensitivity of the fzh series pir motion detector can be adjusted. This is in aid of difficult installation situations. when the sensor head is positioned too close to a HVAC outlet.

Please note adjustment of this feature can severely effect the operation of the sensor head.

To change the sensitivity setting.

1. Select the sensitivity mode by pressing the sensitivity setting button.
2. Use parameter buttons 1 - 8 to select the desired sensitivity.

SENSITIVITY SETTINGS	
Button	Parameter
1	Sensitivity 1
2	Sensitivity 2 (Default)
3	Sensitivity 3
4	Sensitivity 4
5	Sensitivity 5
6	Sensitivity 6
7	Sensitivity 7
8	Sensitivity 8



Sensitivity 1 = High sensitivity
Sensitivity 8 = Low sensitivity

OFFSET DIMMING

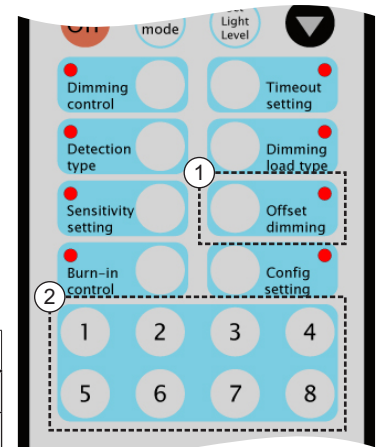
Provided the offset is enabled. If required, the offset amount can be altered using the offset dimming feature.

Adjustment of the Offset dimming control will only alter the channels that the sensor head in question is configured to operate.

To change the current offset dimming level.

1. Select the offset mode by pressing the offset Dimming button.
2. Use parameter buttons 1 - 8 to select the desired dimming offset.

OFFSET DIMMING SETTINGS	
Button	Parameter
1	0% (No offset)
2	10% brighter
3	20% brighter
4	30% brighter
5	40% brighter
6	50% brighter
7	60% brighter
8	Max brightness



SET-BACK CONTROL

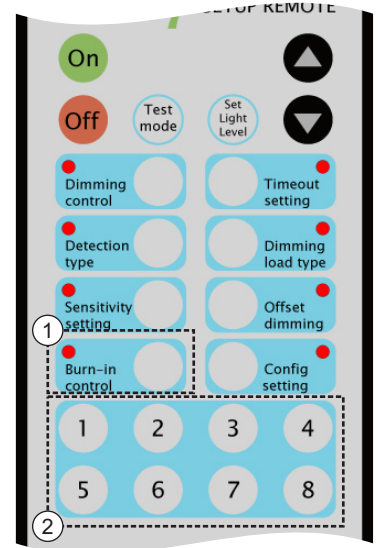
On specific configurations. Set-back control can set 1 of 4 available set-back illumination levels or set-back delayed time-out periods.

Please see configuration for details on the set-back operation.

To change the current set-back selection

1. Select the Set-back mode by pressing the Burn-in function button.
2. Use parameter buttons 1 - 8 to select the desired set-back operation.

SET-BACK SETTINGS	
Button	Parameter
1	Set-back to 10% (Minimum)
2	Set-back to 20%
3	Set-back to 30%
4	Set-back to 50%
5	Disable set-back delay
6	10min set-back delay
7	30min set-back delay
8	60min set-back delay



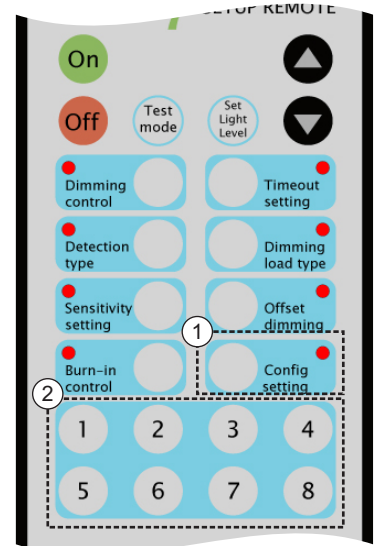
CONFIGURATION SETTINGS

The configuration settings allow for the enabling or disabling master mode function. Or restart and/or reset the ZoneLite unit.

To change the settings

1. Select the Config settings mode by pressing the Config settings function button.
2. Use parameter buttons 1 - 8 to select the desired config settings.

CONFIGURATION SETTINGS	
Button	Parameter
1 - 4	N.A.
5	ZoneLite restart
6	Master mode off
7	Master mode on
8	Master reset (Saved settings will be erased)



FSS Scene setting panel

Working in conjunction with a Flex Connectors' ZoneLite, the FSS controls up to 4 channels of lighting and is unique in providing the end user with not one, but two normal modes of control. A single button seamlessly toggles from one mode to the other:

SCENE MODE - Allows the user to select any 1 of 4 pre-stored scene.

CHANNEL MODE - Allows the user to operate and adjust each channel independently.

In addition and provided a suitable ZoneLite sensor head has been fitted, all lights can be controlled by occupancy i.e. on vacation of the space any luminaires left on will switch off after an adjustable time-out period.

Four models are available:

- FSS04/M/W** - White module
- FSS04/M/B** - Black module
- FSS04/K/W/WP** - White module with white face plate
- FSS04/K/B/SS** - Black module with brushed stainless steel face plate

LOCATION AND FIXTURE

The FSS must be securely fixed to a suitable surface (wall) via a single gang 30mm (or deeper) UK back box.

Models supplied without a face plate are designed to clip into a UK Single Gang, 2 Euro Module Plate which can in turn be fixed to a suitable surface (wall) via a single gang 30mm (or deeper) UK back box - refer to fig. 2

Ensure there are no hidden services (gas, electricity or water) before fixing the back box.

Location of the FSS should be such that it is in an ideal position for the user relative to the luminaires it is controlling, meets relevant building & electrical regulations, and allows for routing of the connecting cable to the Flex ZoneLite.

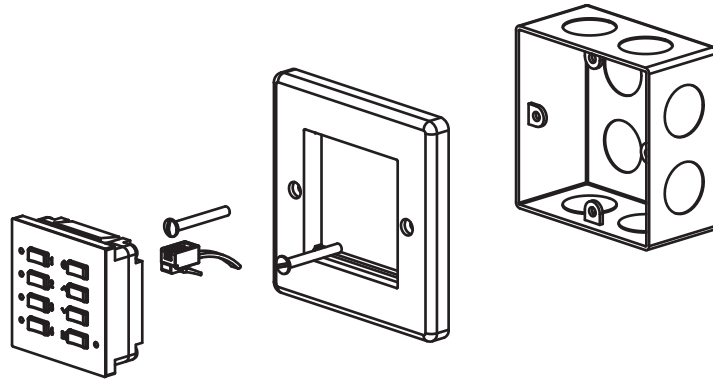


FIGURE 02

ELECTRICAL

ENSURE ELECTRICAL POWER IS SWITCHED OFF BEFORE MAKING ANY CONNECTIONS TO THE FLEX7 SCENE SETTING PANEL.

- The FSS must be connected to Port A of the Flex Connectors' ZoneLite via a Flex FSL type sensor lead (not supplied). Please note that connecting the FSS to any other port will result in incorrect operation - refer to fig. 3
- A maximum of 3 FSS's may be connected in series to a Flex7 ZoneLite using FSY Leads (not supplied). - refer to fig. 3

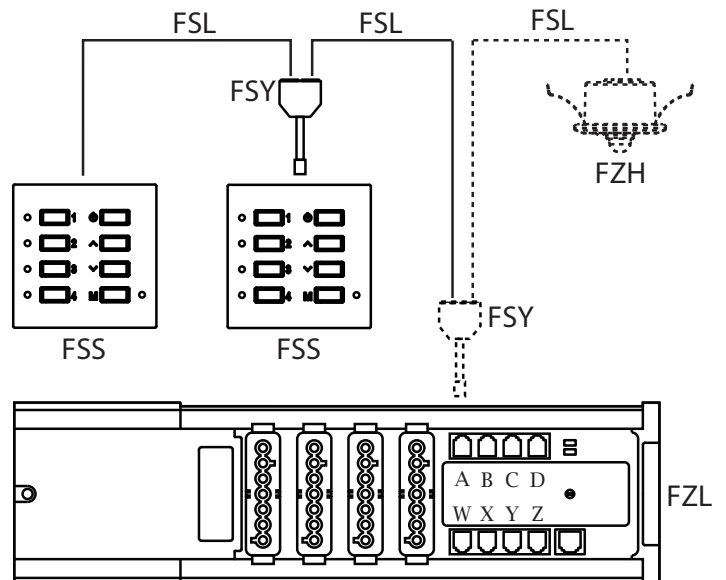


FIGURE 03

COMMISSIONING

- Ensure the Flex7 ZoneLite has been installed correctly.
- Switch the FZL to Configuration 9 (Type T) or Configuration A (Type G).
- Switch the electrical supply to the FZL
- All LED's on the FSS will be OFF and all dimmable luminaires will be at 50% brightness whilst non-dimmable will be on.
- Press the MASTER ON/OFF button to turn ALL luminaires ON.

MODE SELECTION - refer to fig. 1

- The FSS operates in 2 modes: CHANNEL and SCENE.
- Press the MODE Button to toggle between the two.
- The MODE LED is OFF when in SCENE mode.
- The MODE LED is ON when in CHANNEL mode.

SCENE MODE - refer to fig. 1

- Allows the user to select any 1 of 4 scenes or temporarily adjust the active scene up, down or off
- Buttons 1 to 4 recall pre-stored scenes. The respective LED illuminates to indicate the selected scene
- Press and hold the MASTER DIM UP or MASTER DIM DOWN buttons to temporarily adjust the overall brightness of the selected scene
- Press (briefly) the MASTER ON/OFF button to turn ALL luminaires OFF or ON (ON = on to last known state)

CHANNEL MODE - refer to fig. 1

- Allows the user to adjust each channel independently
- Buttons 1 to 4 operate each channel respectively. Use short presses to toggle lights ON / OFF or, while ON, press and hold to dim them either UP or DOWN (alternates)
- Press and hold either the MASTER DIM UP or MASTER DIM DOWN button to temporarily adjust the overall brightness of the scene
- Press (briefly) the MASTER ON/OFF button to turn ALL luminaires OFF or ON (ON = on to last known state) Note: If channel was originally OFF it will switch ON at minimum brightness.

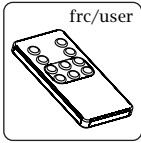
TO SETUP AND STORE SCENES

1. Enter scene setting mode: Press and hold the MODE button (approx. 5 secs.) LED's 1 to 4 will illuminate and the MODE LED will flash slowly.
2. Enter the pin: Use the appropriate buttons 1 to 4 to enter either the factory default pin number 4321 or if previously altered, the new pin. LEDs 1 to 4 flash twice after the correct pin is entered (or 5 times if incorrect - in which case 5 further attempts are allowed).
3. Set up a scene: Starting with channel 1, adjust the luminaires to the desired brightness by using short presses on button 1 to toggle lights ON / OFF or long presses to dim them UP / DOWN. Repeat for channels 2, 3 & 4 using buttons 2, 3 & 4 respectively.
4. Store the scene: Once satisfied with the scene you have set up, press the MODE button (MODE LED will now flash rapidly) followed by whichever of buttons 1 to 4 that you wish to store the scene to - Its associated LED will flash twice to denote your scene has been successfully saved and the mode LED will return to flashing slowly.
5. Set up more scenes OR exit scene setting: To set up more scenes repeat steps 3 and 4 (Max. 4 storable scenes) OR to exit scene setting by pressing and holding the MODE button for 5 seconds. LED's 1 - 4 will flash 3 times – then the unit now returns to the scene mode. (Note: This occurs in any case if the unit is inactive for longer than 2 minutes)

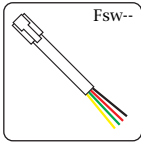
TO CHANGE THE PIN

1. Enter change pin mode: Press and hold the ON/OFF button (approx. 5 secs.) LED's 1 to 4 will illuminate and the MODE LED will flash slowly.
2. Enter the current pin: Use the appropriate buttons 1 to 4 to enter either the factory default pin number 4321 or if previously altered, the new pin. LEDs 1 to 4 flash twice after the correct pin is entered (or 5 times if incorrect - in which case 5 further attempts are allowed).
3. Enter the new pin: Enter the new pin. LED's 1 to 4 will flash once.
4. Re-enter the new pin: Enter the new pin again. LED's 1 to 4 will flash twice if they both match. If they don't match LED's 1 - 4 will flash 5 times, repeat step 3.
5. The new pin will now be saved and the unit will return to scene mode.

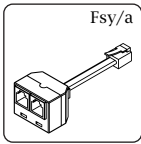
Optional extras



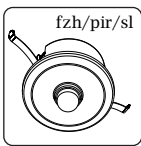
The frc/user remote control is a convenient method for the user to control the lighting remotely. Lights can be temporarily overridden ON or OFF dimmed UP or DOWN. In addition, up to six preset light levels can be stored and recalled.



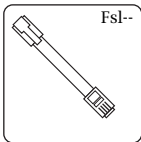
To add additional switches, a PELV switch drop lead and a fsy/a will be required to connect the additional switch to the control unit.



If your room requires additional sensor heads (fnh/slave) or additional switch drops you will require an fsy/a to link your additional cables into.



Occupancy coverage can be increased by adding up to a maximum of three slave sensor heads (fzh/pir/slave) to your existing sensor head. The fzh/pir/slave comes complete with a 'Y' adaptor to facilitate connection. A connecting lead may also be required, part number fslXX (XX = length /5m).



Occupancy coverage can be increased by adding up to a maximum of three slave sensor heads (fzh/pir/sl) to your existing sensor head. The fzh/pir/sl comes complete with a 'Y' adaptor to facilitate connection. A connecting lead may also be required, part number fslXX (XX = length /5m).

ZoneLite:

Nominal 230V~ 16A, 50Hz, Class 1
Manufactured in black PA6 UL94 V-0 rated, PC/ABS, and Anodised Aluminium.

7 contacts per outlet, each rated at 16 amps, using the Flex7 outlet format. Total system rating 16A
Operating range: -10 to 40°C
3 x 2.50mm², 2 x 4.00mm² or 1 x 6.00mm² conductors
Per Channel Load

Fluorescent & Incandescent Lighting : 6A
Compact Fluorescent Lighting : 3A

IP20
LVD-2006/95/EC Compliance
EMC-2004/108/EC Compliance

Maximum number of Ballasts
DSI Digital control : 25
DALI Digital control : 25

Remote control

2x AAA Batteries
50mA at IR Transmit
ABS case material
operating range: 5C to 40C
Frequency: 38KHz
IP Rating: IP20
Compliance: ROHS, Lead free

Sensor head

Supply Voltage :12V DC
Material :PA6 UL94 V-0 rated, Non-halogen
Manufactured in white & red.
Operating range :-10°C to 40°C
IP Rating :IP20
Compliance: :LVD-2006/95/EC
:EMC-2004/108/EC