**EBDSPIR-DD, EBDSPIR-DD-IP**
**Product Guide**

mySmart

# Ceiling PIR presence detector – DALI / DSI dimming

## Overview

The EBDSPIR-DD PIR (passive infrared) presence detector provides automatic control of lighting loads with optional manual control.

Output Channel 1 comprises a mains voltage relay capable of simple on/off switching, while Output Channel 2 provides dimmable control of either DALI or DSI type ballasts.

Functioning as a presence detector, the unit can turn lights on when a room is occupied and off when the room is empty. Optional settings allow lights to be turned off in response to ambient daylight, or to implement a maintained illuminance (daylight harvesting) system.

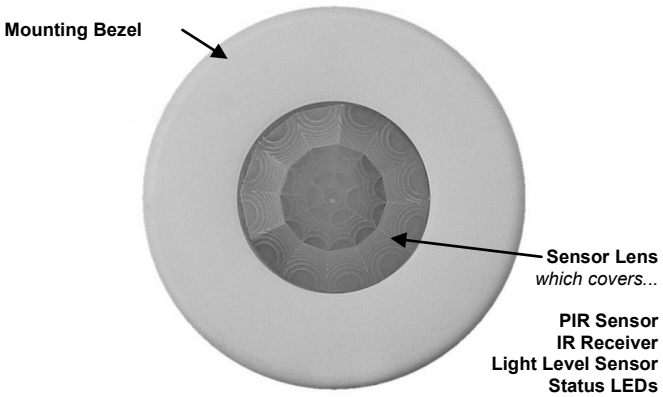
The flexibility of having two channels and two switch inputs allows the following example scenarios:

- Dim an outside row of luminaires whilst internal fittings are switched
- Provide absence detection for two separate channels
- Maintained illuminance system with manual up/down controls

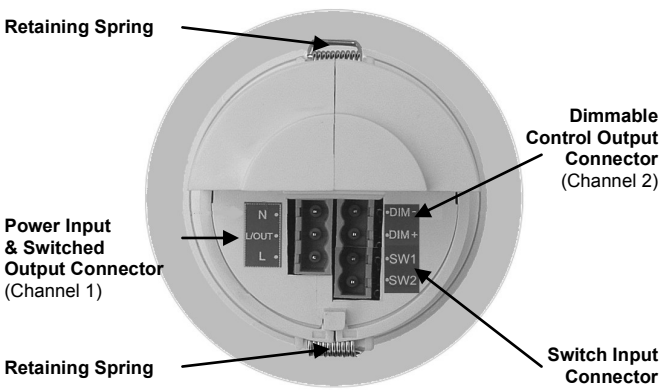
All functionality is fully programmable using an IR handset.

## Features

Front features




Back features




**PIR Sensor**
Detects movement within the unit's detection range, allowing load control in response to changes in occupancy.

**IR Receiver**
Receives control and programming commands from an IR (infrared) handset.

**Light Level Sensor**
Measures the overall light level in the detection area

**Status LEDs**
The LED flashes **R**ed to indicate the following:

| | |
|---|---|
| ***Walk Test LED active*** | *when movement is detected* |
| ***Valid setting received*** | |

**Power Input & Switched Output Connector** (Channel 1)
Used to connect mains power to the unit and to connect a switched load.

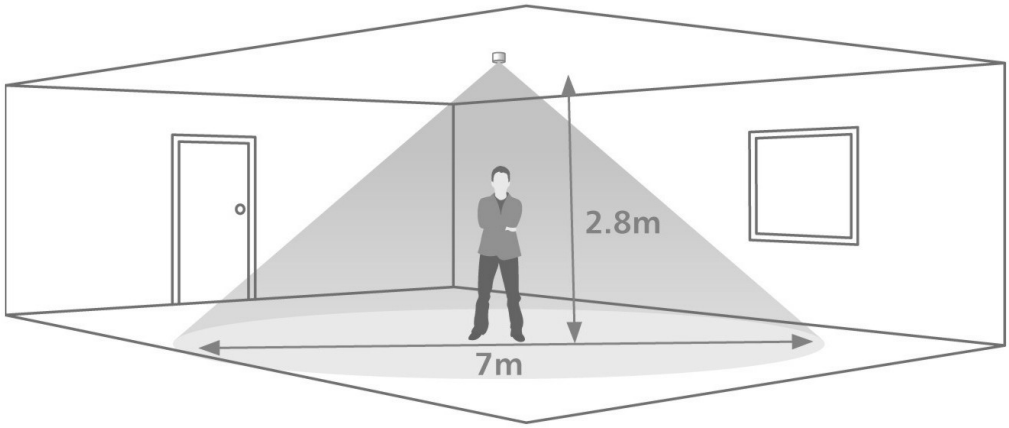
**Dimmable Control Output Connector** (Channel 2)
Used to connect DSI/DALI controllable ballasts and transformers for dimmable loads.

**Switch Input Connector**
Two input terminals can be used to manually override the dimming levels and override the lights on or off.

minus 30° range

***EBDSPIR-DD-IP-LT30***
***A special order version that can be used down to -30ºC***

# Detection diagram




Area of high sensitivity Area of lower sensitivity

# Installation

**Choosing a Suitable Location**

The EBDSPIR-DD is designed to be ceiling mounted and must satisfy the following criteria:

- Avoid positioning the unit where direct sunlight may enter the sensor element.
- Do not site the sensor within 1m of any lighting, forced air heating or ventilation.
- Do not fix the sensor to an unstable or vibrating surface.

# Sensor functionality

**Detection Mode**

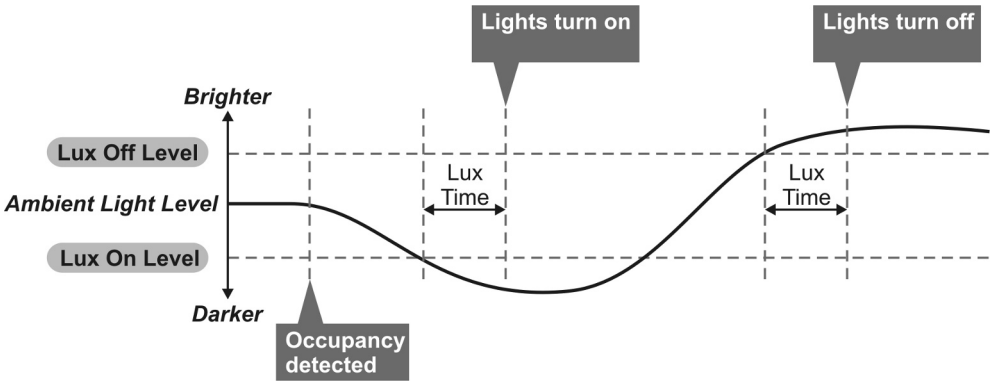
The Detection Mode for both output Channels 1 and 2 can be set to behave in Presence or Absence mode:

- **Presence** When movement is detected the load will automatically turn on. When the area is no longer occupied the load will automatically switch off after an adjustable time period.
- **Absence** The load is manually switched on. When the area is no longer occupied the load will automatically switch off after the adjustable time period has elapsed.

In either case, sensitivity to movement of the PIR sensor can be adjusted using the Sensitivity parameter.
*HINT: To assist in setting the Sensitivity, turn on the Walk Test LED which will flash red when movement is detected.*

**Switch Level On/Off**

Occupancy detection can be made dependant on the ambient light level using the Lux On Level and Lux Off Level parameters.




**Maintained Illuminance (daylight harvesting)**

The detector measures the overall light level in the detection area and calculates the correct output for the luminaires, to achieve a preset lux level (maintained illuminance or daylight harvesting).

# Burn-in

**Overview**

It is a requirement of many fluorescent lamp manufacturers to have the lamps on at maximum output for a period of time to guarantee lamp life (refer to the manufacturer's datasheet for details) As this EBDSPIR-DD is able to dim the lamps using DALI/DSI, the product provides a facility to disable this for a given period of time.

**Operation**

By setting the "Burn in" parameter, you can select a time during which the lamps are not allowed to deviate from maximum output. The unit counts the time, and even remembers how long has elapsed in the event of a power failure. To cancel the burn in function, simply select a time of 0. Note that when the lamps are changed, the burn in time should be set again.

# Installation

The EBDSPIR-DD is designed to be mounted using either:

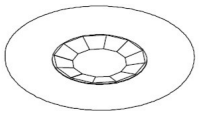
- Flush fixing, or
- Surface fixing, using the optional Surface Mounting Box (part no. DBB).

Both methods are illustrated below.

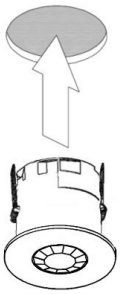
*Note: EBDSPIR-DD-IP & LT30 - use the supplied gasket to ensure IP rating (<u>not</u> compatible with Surface Mounting Box part no. DBB).*

**Flush Fixing**

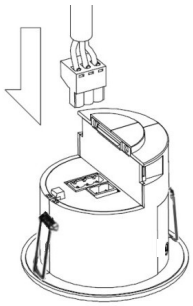
***Warning - be careful bending springs when mounting unit.***



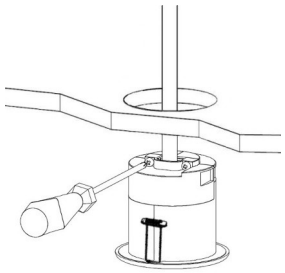
**1** Hole Ø64mm



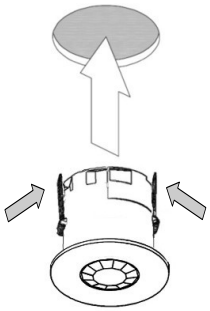
**2**



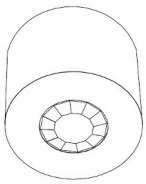
**3**



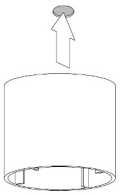
**4**



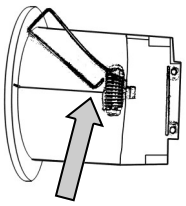
**Surface Fixing**



**1** 50mm or 60mm fixing centres

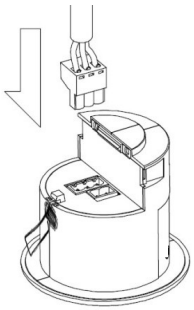


**2**

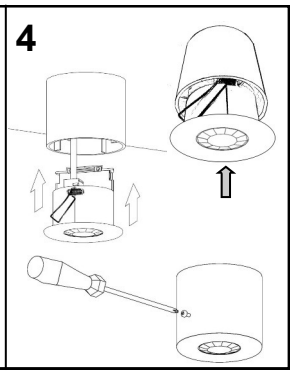


Pull out spring tab and rotate spring arm as shown

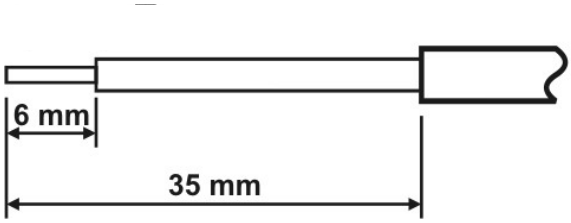
**3**

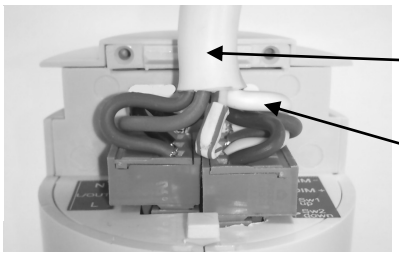


**4**



## Wire stripping details



***Important***
Ensure that the cables are formed as shown before affixing the cable clamp. The clamp MUST clamp the outer sheath(s) only.

Bend cores as shown.

# Readback function *(UNLCDHS handset only)*

The UNLCDHS has the ability to read back the settings stored in a device.

**To read back individual parameters**

- Navigate to the parameter and press the 'R' (Read) button whilst pointing at the device. The handset will click when the parameter has been read back, the device will flash its LED, and the value will be shown against the parameter in the menu.

**To read back all of the parameters in a menu**

- Press and hold the 'R' (Read) button for more than 1 second.
- The handset will click every time a parameter is received
- The device will show multiple flashes of its LED
- All of the values will be shown against the parameters in the menu.
- The individual parameters may be edited and then saved as a 'Macro'.

***Notes***

- *If a parameter(s) has been missed because of a communication error, the missing value(s) is replaced by dashes.*
- *When reading back, the Channel 1 relay (where fitted) will temporarily be switched off, and will return to it's normal state 2 seconds after the read back has been completed.*

Channel 1 (switched output) of the EBDSPIR-DD can either be used to switch a separate channel of standard, non-dimming luminaires, or to isolate the mains supply to dimming ballasts (saving on the standby current of the ballasts).

Multiple luminaires may be connected in parallel to Channel 1 (via the **N** and **L/Out** terminals) as long as the maximum total load is not exceeded.

Channel 2 (dimmable output) of the EBDSPIR-DD can be used to control the light output of luminaires that are fitted with dimming ballasts/transformers.

The ballasts/transformers can be connected in parallel to Channel 2 (via the **DIM–** and **DIM+** terminals). Refer to the specification on page 12 for ballast quantities.

The wiring examples below show common methods of connecting the output channels for a single detector unit.

## Single channel dimming

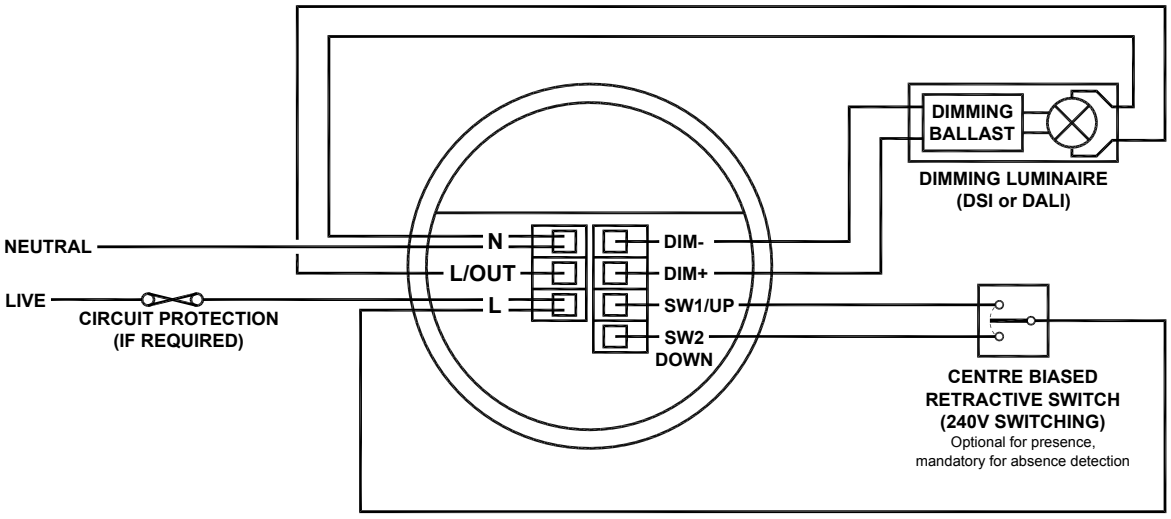
***Functions:*** Switches the luminaire with occupancy and maintains illuminance. Dims and switches using optional centre biased retractive switch (MK K4900 or similar).

***Configured to presence detection:*** Turns on automatically with occupancy. Maintains illuminance. Press and release down switch to turn off. Press and release up switch to turn back on. Press and hold up switch to dim up, press and hold down switch to dim down. Turns off after occupancy.

***Configured to absence detection:*** Press and release up switch to turn on. Maintains illuminance. Press and release down switch to turn off. Press and hold up switch to dim up, press and hold down switch to dim down. Turns off after occupancy.

***Channel mode:*** Set to “Switch and dim together”.

***Switch mode:*** Set to “2 position switch together”.



## Two channel, individual switches

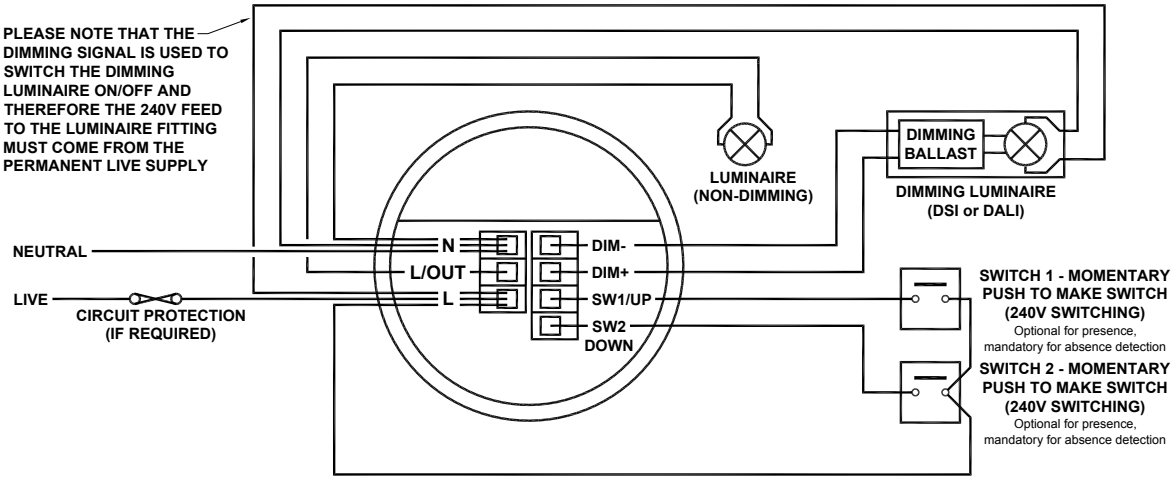
***Functions:*** Switches both channels with occupancy. Maintains illuminance, dims and switches the dimming channel using optional single position retractive switch (switch 2). Switches the switching channel using the optional single position retractive switch (switch 1).

***Configured to presence detection:*** Turns on automatically with occupancy. Maintains illuminance (dimming channel only). Press and release switch to toggle output. Press and hold switch to dim up and down (reverses direction with each press). Turns off after occupancy.

***Configured to absence detection:*** Press and release switch to turn on. Maintains illuminance (dimming channel only). Press and release switch to turn off. Press and hold switch to dim up and down (reverses direction with each press). Turns off after occupancy.

***Channel mode:*** Set to “Switch and dim separate”

***Switch mode:*** Set to “1 position switch separate”




## Two channel, single switch

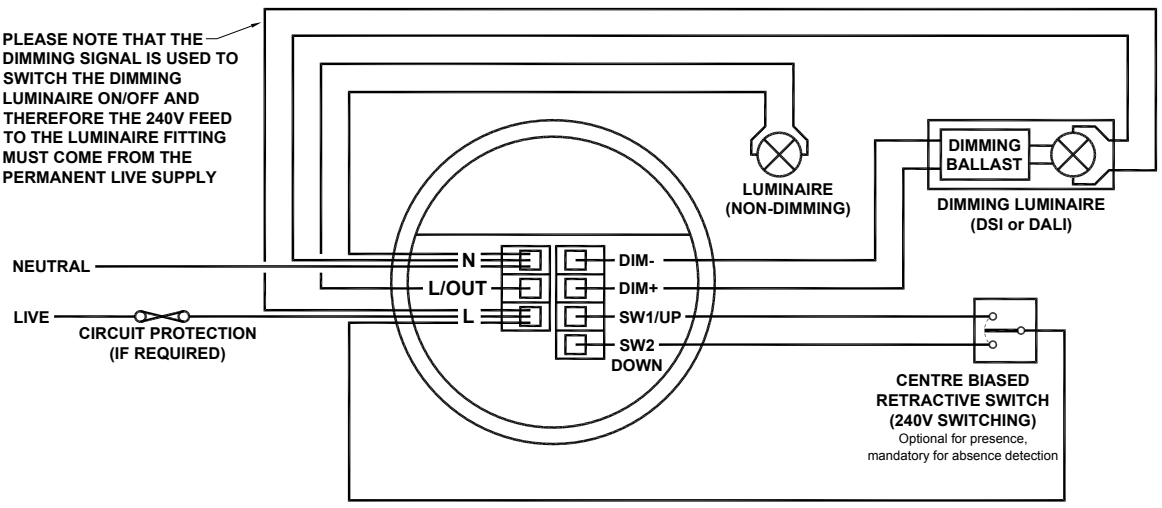
***Functions:*** Switches both channels with occupancy. Maintains illuminance, dims and switches the dimming channel using optional centre biased retractive switch .

***Configured to presence detection:*** Turns on automatically with occupancy. Maintains illuminance (dimming channel only). Press and release down switch to turn off. Press and release up switch to turn back on. Press and hold up switch to dim up, press and hold down switch to dim down. Turns off after occupancy. Channel 1 does not operate with switch.

***Configured to absence detection:*** Press and release up switch to turn on. Maintains illuminance (dimming channel only). Press and release down switch to turn off. Press and hold up switch to dim up, press and hold down switch to dim down. Turns off after occupancy. Channel 1 does not operate with switch.

***Channel mode:*** Set to “Switch and dim separate”

***Switch mode:*** Set to “2 position switch separate”




PLEASE NOTE THAT THE CENTRE BIASED RETRACTIVE SWITCH WILL PROVIDE CONTROL FOR THE DIMMING LUMAIRE(S) ONLY. THE NON-DIMMING LUMINAIRE(S) WILL BE CONTROLLED ONLY BY THE SENSOR

# Wiring diagrams (cont.)

## Single channel switching

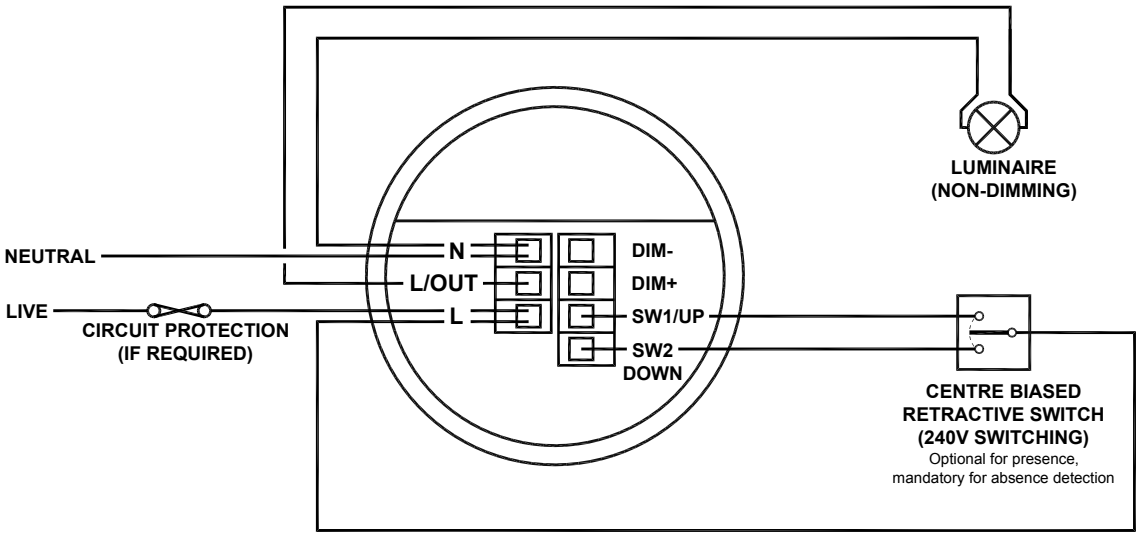
***Functions:*** Switches channel 1 only with occupancy, optional override switch. No dimming output.

***Configured to presence detection:*** Turns on automatically with occupancy. Press and release down switch to turn off. Press and release up switch to turn back on. Turns off after occupancy.

***Configured to absence detection:*** Press and release up switch to turn on. Press and release down switch to turn off. Turns off after occupancy.

***Channel mode:*** Set to "Switch only"

***Switch mode:*** Set to "2 position switch together". Note: a single position switch can be used instead to toggle the output, set to "1 position switch separate".




# Power-up test procedure

When power is applied to the unit, the load will turn on immediately.

Set the timeout to 10 seconds, vacate the room or remain very still and wait for the load to switch off .

Check that the load switches on when movement is detected.

The unit is now ready for programming.

# Fault finding

**What if the load does not turn ON?**

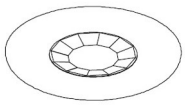
- Check that the live supply to the circuit is good.
- Check that the load is functioning by bypassing the sensor (e.g. link terminals **L** and **L/ Out** on Channel1).
- If the detection range is smaller than expected, check the diagram on page 2. Rotating the sensor slightly may improve the detection range.

HINT: *The Walk Test LED function can be used to check that the unit is detecting movement in the required area.*

**What if the load does not turn OFF?**

- Ensure that the area is left unoccupied for longer than the Time Out Period.
- Ensure that the sensor is not adjacent to circulating air, heaters or lamps.

# Basic programming



The functionality of the EBDSPIR-DD is controlled by a number of parameters which can be changed or programmed by any of the following devices:

- **UHS5** Infrared Handset. See below for programmable functions.
- **UNLCDHS** Infrared Handset (with LCD). See user guide for full programming details.

For most basic programming operations the UHS5 handset can be used and the following procedures are based on using this device.
Point the handset at the Sensor and send the required programming commands to the unit as shown below.
Valid commands will be indicated by a red LED flash. See page 1 for details of other LED responses.
*Note: other functions on the UHS5 which are not shown below are not applicable to this product.*

| | | ***Number of Shift key presses*** | | | | | |
|---|---|---|---|---|---|---|---|
| **Parameter Name** | **Default Value** | **0** ○ SHIFT 1 ○ SHIFT 2 | **1** ☼ SHIFT 1 ○ SHIFT 2 | **2** ○ SHIFT 1 ☼ SHIFT 2 | **3** ☼ SHIFT 1 ☼ SHIFT 2 | **UHS5 Handset Graphics** | **Description** |
| | | Button Activation | | | | | |
| **On / Raise** | | On | Raise | | | | Turn lights on or to raise lights. |
| **Off / Lower** | | Off | Lower | | | | Turn lights off or to lower lights. |
| **Walk test** | Off | On | Off | | | | When set to On this causes a red LED to flash on the sensor when it detects movement. Use this feature to check for adequate sensitivity levels. |
| **Time Out** ***(Time adjustment)*** | 20 mins | 1, 10 & 20 minutes | 5, 15 & 30 minutes | 10 seconds | | | Once the detector is turned on, this value sets how long the lights will stay on once movement has ceased. |
| **Lux on level** ***(Switch level on)*** | 9 | 2, 5 & 7 | 4, 6 & 9 | | | | Lux level setting to prevent the luminaires being switched on if the ambient light level is sufficient (adjustable between 1 and 9). The luminaires will always be switched on at level 9. |
| **Light Level** | 6 (600) | | | 2 (200)<br>5 (500)<br>7 (700) | 4 (400)<br>6 (600)<br>9 (999) | | Sets a target light level to be maintained by the lighting system.<br>9 (999) = disabled. |
| **Lux off level** ***(Switch level off)*** | 9 | 2, 5 & 7 | 4, 6 & 9 | | | | Lux level setting to switch the luminaires off during occupancy if the ambient light level goes above the setting (adjustable between 1 and 9). Level 9 will always keep the lights on. This setting can be used for "window row switching".<br>*Note: the Lux Off Level value must always be greater than the Lux On Level value.* |
| **Load Type** | DALI | | | 2-DALI<br>7-DSI | 2-DALI on | | Sets the ballast control protocol to be used by the output channel. |
| **Sensitivity** | 9 | 1, 5 & 9 | 3, 6 & 8 | | | | Sensitivity level for detecting movement.<br>1 = low sensitivity<br>9 = high sensitivity |
| **Defaults** | | | | D | | | Returns the unit to the default settings. |
| **Burn-in** | 0 | 0 | 50 | 100 | | | Determines how long the output will be at 100% so that lamps 'burn-in'. The 'burn-in' time is not affected by power supply interruptions. |
| **Presence / Absence** | Presence | Presence | Absence | | | | Presence mode allows the output to turn on when movement is detected and off when movement ceases. Absence mode allows the output to turn off when movement ceases, but must be manually turned on first. |
| **Shift** | | | | | | | Use this button to select the settings in red and blue signified by the 'Shift 1' and 'Shift 2' LEDs |

| Parameter Name | Default Value | Range / Options | Description | UHS5 | UNLCDHS |
|---|---|---|---|---|---|
| ***Detector Parameters*** | | | | | |
| Walk Test LED | Off | On or Off | When set to On this causes a red LED to flash on the sensor when it detects movement. Use this feature to check for adequate sensitivity levels. | ✓ | ✓ |
| Time Out *(Time adjustment)* | 20 minutes | 0-99 minutes | Once the detector is turned on, this value sets how long the lights will stay on once movement has ceased. Select 0 for 10 second delay – use for commissioning only. | ✓ | ✓ |
| Manual Time Out | 10 minutes | 0-99 minutes | When a manual operation occurs, either via the switch input or the infrared, it invokes the timeout period.<br>Example 1: a detector in presence mode has a detector timeout of 15 minutes and a manual timeout of 3 minutes. When the user leaves the room they press the off button. The sensor will revert to automatic after 3 minutes, and then walking back in the room will turn the lights on.<br>Example 2: using the settings above, the user turns the lights off (say for a presentation) but stays in the room. Every time a movement is detected, the manual timeout period is re-triggered, but when it doesn't pick up for the short timeout period, the sensor will timeout and revert to automatic. This means the lights may turn on inadvertently during the presentation, if the occupants are still for the manual timeout period, so adjust the timing carefully. | ✗ | ✓ |
| Sensitivity On | 9 | 1 (min) to 9 (max) | Sensitivity level for detecting movement when the detector is already on. ***UHS5 sets Sensitivity On and Off to the same value.** | ✓* | ✓ |
| Sensitivity Off | 9 | 1 (min) to 9 (max) | Sensitivity level for detecting movement when the detector is off. ***UHS5 sets Sensitivity On and Off to the same value.** | ✓* | ✓ |
| Lux time | 0 | 0 (disabled)<br>1-99 minutes | If the detector measures the lux level and decides that the output needs switching on or off as a consequence, the lux time must elapse first. If at any time during the timed delay the lux change reverses then the process is cancelled. Lux Time enables absence detection to be implemented with a lux off level set. When the button is pressed, the lights will go on, regardless of ambient light level. However, if there is sufficient ambient light, they will turn off again after the Lux Time. *Note that whenever the an external switch is pressed, whether in absence or presence mode, if the lights were out because of the lux level, they will be immediately turned on again for at least the Lux Time.* | ✗ | ✓ |
| Power Up State | On | On or Off | Select No for a 30 second delay on start up. If Yes is selected, there will be no delay on start up and the detector will always power up detecting. | ✗ | ✓ |
| Disable Detector | N | Y or N | Disables detection, leaving the relay output permanently off with the dimming output operational. This mode is used when the unit is for maintained illuminance only. | ✗ | ✓ |
| On Delay | 0 minutes | 0-99 minutes | The On Delay to allows the first channel to switch on after the second channel. A typical application for this would be where a detector is controlling lighting and air conditioning in an area. When the occupant is detected, the lighting will be turned on immediately, whereas the air conditioning may be turned on after 15 minutes. If the area is vacated and the detector times out before the delay, then the air conditioning would never go on. The delay can be set only for channel 1 using the on delay parameter. | ✗ | ✓ |
| Inhibit | 4 seconds | 1 to 999 seconds | When the detector turns off, a delay is instigated to prevent retriggering. In certain circumstances this delay may not be enough. This parameter allows the delay to be changed. | ✗ | ✓ |
| Factory default | - | - | Restores factory default settings | ✓ | ✓ |

| ***Channel Modes*** | | | | | |
|---|---|---|---|---|---|
| Switch only | - | - | Usually used for absence detection - in this mode the dimming channel is not used. | ✗ | ✓ |
| Switch and dim together | Default | - | The detector will switch and dim the lighting together. | ✗ | ✓ |
| Switch and dim separate | - | - | Provides 2 channel operation – Channel 1 is switched via the relay output, and Channel 2 is dimmed / switched via the dimming output. | ✗ | ✓ |

| ***User Modes*** | | | | | |
|---|---|---|---|---|---|
| Raise | - | - | Increase light level. Reverts when occupancy cycle complete. | ✓ | ✓ |
| Lower | - | - | Decrease light level. Reverts when occupancy cycle complete. | ✓ | ✓ |
| Scene up | - | - | Steps up between 6 pre-defined scenes. | ✗ | ✓ |
| Scene down | - | - | Steps down between 6 pre-defined scenes. | ✗ | ✓ |
| Scene # | - | - | Select the individual scene, between 0 and 6.<br>(1 = min. output; 2 = 10%; 3 = 25%; 4 = 50%; 5 = 75%; 6 = 100%) | ✗ | ✓ |
| Override On | - | - | If the lights are off, sending the IR command will turn them on immediately and revert to automatic operation using the manual timeout period. | ✓ | ✓ |
| Override Off | - | - | If the lights are on, sending the IR command will turn them off immediately. After the manual timeout period (described above), the sensor will revert to automatic. | ✓ | ✓ |
| Cancel | - | - | Cancels the on or off override, returning the detector to normal operation. | ✗ | ✓ |

# Advanced programming

| Parameter Name | Default Value | Range / Options | Description | UHS5 | UNLCDHS |
|---|---|---|---|---|---|
| ***Channel 1 –Switching Channel*** | | | | | |
| Detection Mode | Presence | Presence or Absence | Presence mode allows the output to turn on when movement is detected and off when movement ceases. Absence mode allows the output to turn off when movement ceases, but must be manually turned on first. | ✓ | ✓ |
| Lux on level *(Switch level on)* | 9 | 1 to 9<br>For a higher resolution a scale of 101-199 is available | Sets a minimum light level below which the PIR sensor is enabled, allowing lights to be turned on by movement.<br>*Note: the Lux Level Off value must always be greater than the Lux Level On value.* | ✓ | ✓ |
| Lux off level *(Switch level off)* | 9 | 1 to 9<br>For a higher resolution a scale of 101-199 is available | Sets a maximum light level above which the PIR sensor is disabled, preventing lights from being turned on by movement. | ✓ | ✓ |
| ***Channel 2 -Dimming Channel*** | | | | | |
| Detection Mode | Presence | Presence or Absence | Presence mode allows the output to turn on when movement is detected and off when movement ceases. Absence mode allows the output to turn off when movement ceases, but must be manually turned on first. | ✓ | ✓ |
| Lux on level *(Switch level on)* | 9 | 1 to 9<br>For a higher resolution a scale of 101-199 is available | Sets a minimum light level below which the PIR sensor is enabled, allowing lights to be turned on by movement.<br>*Note: the Lux Level Off value must always be greater than the Lux Level On value.* | ✓ | ✓ |
| Lux off level *(Switch level off)* | 9 | 1 to 9<br>For a higher resolution a scale of 101-199 is available | Sets a maximum light level above which the PIR sensor is disabled, preventing lights from being turned on by movement. | ✓ | ✓ |
| Light Level (maintained illuminance) | 600 | 1 to 998 (999 disabled) | Sets a target light level to be maintained by the lighting system. | ✓ | ✓ |
| Load Type | DALI | DSI<br>DALI<br><br>DALI On | Sets the ballast control protocol to DSI.<br>Sets the ballast control protocol to DALI.<br><br>DALI On provides a permanent voltage to DALI ballasts when DALI has not been implemented correctly in the ballast. Maximum number of ballasts is 5 unless the relay is disabled then it is 10. | ✓<br>✓<br><br>✘ | ✓<br>✓<br><br>✓ |
| Max Value | 100% | 0 to 100% | Maximum dimming output level. | ✘ | ✓ |
| Min Value | 0% | 0 to 100% | Minimum dimming output level. | ✘ | ✓ |
| Memorise | N | Yes or No | If this is set to Yes, the last manual lux level set will be memorised and used as the new switch on level. | ✘ | ✓ |
| On value | 99 | 0 to 99 | Dimming output level when switched on (0-99). | ✘ | ✓ |
| Off value | 0 | 0 to 99 | Dimming output level when switched off (0-99). If a non-zero off value is set, then the output will toggle between this value and completely off depending on the switch level on and off values. For example, if it is light outside, the fittings will be off if there is no occupancy. If it is dark outside, they will adopt the preset off value. This feature is only enabled if 'Min value' is set to 99. | ✘ | ✓ |
| Burn-in | 0 | 0 (disabled) or 1 to 999 hours | Determines how long the output will be at 100% so that lamps 'burn-in'. The 'burn-in' time is not affected by power supply interruptions. | ✓ | ✓ |
| Fade value | 10 | 0 to 99 | After occupancy ceases, this dimming output level is loaded for the fade time (adjustable between 0 and 99). | ✘ | ✓ |
| Fade mins | 0 | 0 to 99 | This is the time period (adjustable between 0 and 99 minutes) that the luminaire will be held at the fade value before turning off. A value of 0 disables the fade function. | ✘ | ✓ |
| Speed On | 40 | Measured in 0.1 sec intervals. | Determines the dimming response speed after the setup time has finished. | ✘ | ✓ |
| Speed Set | 5 | Measured in 0.1 sec intervals. | Determines the dimming response speed during the set up time. Measured in 0.1 sec intervals. If set to 0 will disable dimming for "Set seconds" below, used if fittings are required to warm up before dimming. | ✘ | ✓ |
| Set Seconds | 120 | 1 to 999 seconds | Determines how long the dimming response set-up period lasts on power-up or on setting change. This enables the desired lux level to be achieved rapidly when the lights come on, or during setup. | ✘ | ✓ |
| ***Switch Modes*** | | | | | |
| 2 position switch together | Default | - | A single centre biased retractive switch will be used to control both channels together. | ✘ | ✓ |
| 2 position switch separate | - | - | A single centre biased retractive switch will be used to control only the dimming channel. | ✘ | ✓ |
| 1 position switch together | - | - | A single position retractive switch controls both channels together. | ✘ | ✓ |
| 1 position switch separate | - | - | Two single position retractive switches, controlling the channels separately. | ✘ | ✓ |

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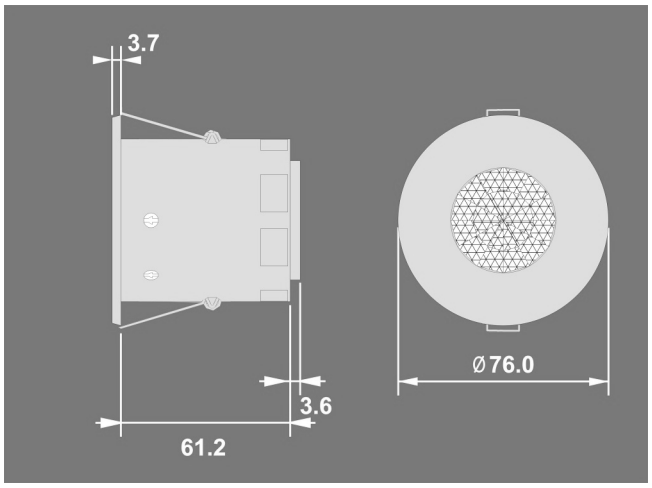
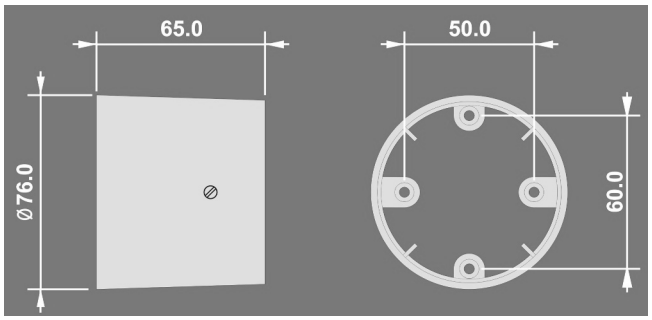
# Technical data

| | |
|---|---|
| Dimensions | See diagrams opposite |
| Weight | 0.15kg |
| Supply Voltage | 230VAC +/- 10% |
| Frequency | 50Hz |
| Maximum Load | *Channel 1 (switching):*<br>10A of lighting and/or ventilation including incandescent, fluorescent, compact fluorescent, low voltage (by switching the primary of transformer).<br>*Channel 2 (dimming):*<br>Maximum number of DSI or DALI ballasts is 10 unless the relay is disabled then it is 20. |
| Power consumption | On 625mW, Off 807mW |
| Dimming output | Basic insulation only. Although low voltage, this is not an SELV output and should be treated as if mains potential. Use mains rated wiring. |
| Terminal Capacity | 2.5mm$^2$ |
| Temperature | EBDSPIR-DD -10ºC to 35ºC<br>EBDSPIR-DD-IP -10ºC to 35ºC<br>EBDSPIR-DD-IP-LT30 -30ºC to 35ºC |
| Humidity | 5 to 95% non-condensing |
| Material (casing) | Flame retardant ABS and PC/ABS |
| Type | Class 2 |
| IP rating | EBDSPIR-DD IP40<br>EBDSPIR-DD-IP IP55<br>EBDSPIR-DD-IP-LT30 IP55 |
| Compliance | EMC-2004/108/EC<br>LVD-2006/95/EC |

EBDSPIR-DD




DBB




# Part numbers

| | Part number | Description |
|---|---|---|
| **Detector** | EBDSPIR-DD | Ceiling PIR presence detector – DALI / DSI dimming |
| | EBDSPIR-DD-IP | Ceiling PIR presence detector – DALI / DSI dimming sealed to IP55 |
| | EBDSPIR-DD-IP-LT30 | Ceiling PIR presence detector – DALI / DSI dimming sealed to IP55 -30ºC |
| **Accessories** | DBB | Surface mounting box |
| | UHS5 | Programming IR handset |
| | UNLCDHS | Universal LCD IR handset |

**IMPORTANT NOTICE!**

This device should be installed by a qualified electrician inaccordance with the latest edition of the AS/NZS Wiring Rules and any applicable Building Regulations.

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Due to our policy of continual product improvement mySmart reserves the right to alter the specification of this product without prior notice.