Products

Daylight - Circular Recessed

Recessed Daylight sensor for linking to Kellwood luminaire controllers.



Product Features

- Detects Light Level.
- Connect to a G3 luminaire controller to create wireless daylight sensor.
- Supplied with a ceiling tile mounting bezel.
- IP56.

Daylight linking is very simple technology but needs careful consideration to implement well.

Contrary to common belief, sensors cannot measure the lux level on the surface they are pointed at, they can only measure the light level on the sensor itself. Therefore, if it is positioned or aimed incorrectly, it will not function as anticipated.

Firstly, it's important to decide whether you require a 'Direct Daylight' or 'Room Ambient' orientation for the daylight sensor -

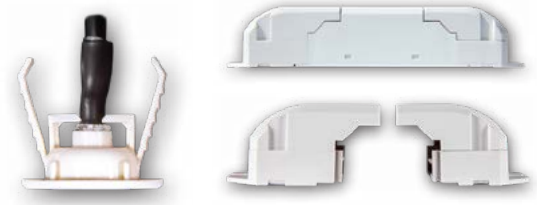
Direct Daylight - Also known as an open loop control system or Sensor Up - has the sensor located so that it detects only daylight and is not affected by light from the luminaire(s) it controls.

Room Ambient - Also known as a closed loop control system or Sensor Down - has the sensor located so that it is able to detect both the artificial luminaire light and the available daylight.

Note: Kellwood Lighting does not promote using a daylight sensor in every luminaire. This can result in random brightness of fittings because the measured daylight on each sensor depends on the reflectance of the surface underneath it, rather than the lux level of what is underneath it. Using fewer daylight sensors allows for grouped operation and a more uniform effect.

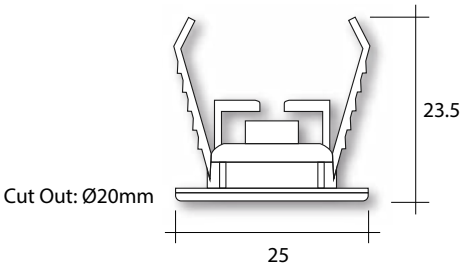
Part Code	Description
LC-LIP-DS2-BEZ	Daylight sensor with 500mm cable and ceiling tile bezel.
LC-LIP-ND1-SR	G3 node and strain relief endcaps to suit daylight sensor.

Shown with G3 node and Strain Relief End Caps



Part Code - LC-LIP-DS2-BEZ + LC-LIP-ND1-SR

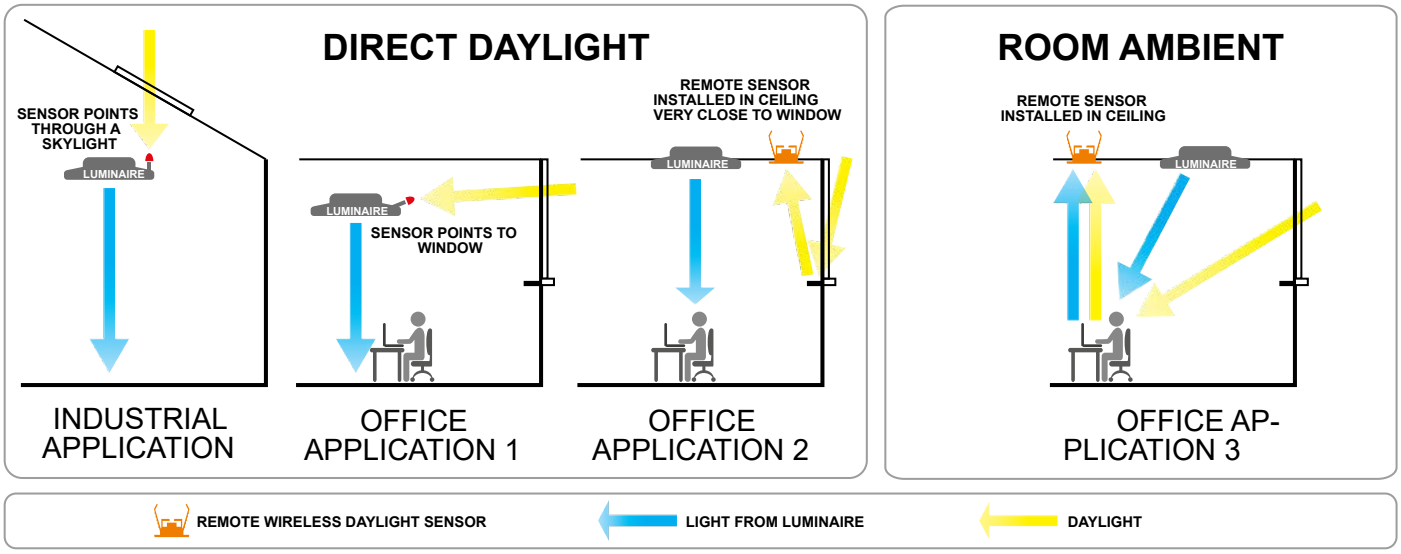
Dimensions



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Supporting Information:



Direct Daylight:

In these scenarios, the sensor is either directly facing daylight or receiving only reflected natural light. It is shielded from getting any light from the luminaire(s) that it controls. The two normal ways of achieving this are -

(i) Industrial: Facing upwards on top of a luminaire, looking upwards through a skylight in the roof.

(ii) Office: Facing out of the windows, away from the luminaire. In practice this scenario is often achieved by putting the sensor facing downward in the last tile against a window.

Having decided this, the sensor must be configured during the commissioning process by selecting -

Profile > LDR > Sensor Up or Sensor Down

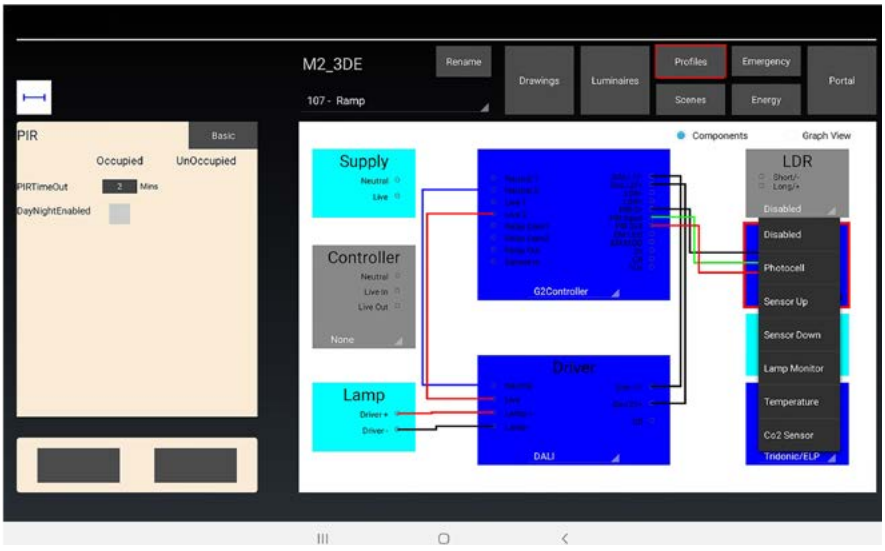
Room Ambient:

In this scenario the sensor must be aimed at a work surface that gets an equal amount of reflected natural daylight and artificial light from the luminaire(s) that it controls.

Note: Kellwood rarely use Room Ambient daylight detection as it doesn't work in conjunction with 'Me+8' PIR presence links.

If the area where the sensor is positioned becomes absent, the light fitting dims and all other areas become brighter.

Direct Daylight keeps the daylight dimming independent of presence.



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