

Technical Overview

The **LL-SC** is a light level transmitter designed for use in the active control of artificial lighting, both to optimise light levels and to achieve maximum energy efficiency.

The **LL-SC** transmitter uses a photo-diode cell to detect light levels in the 10-2000 lux range, providing a linear 0-10Vdc output signal.

The **LL-SC** is designed to be ceiling mounted for the measurement of all types of light levels.



Features

- Flush or surface mount options.
- 24Vac/dc supply
- 0-10Vdc output

Specification

| | |
|-------------------|------------------------------------|
| Sensor reference | Photo-diode |
| Accuracy | ±5% across range |
| Field of view | 360° |
| Coverage | 7 metres max. |
| Light range: | 10 - 2000 Lux |
| Supply voltage | 24Vac/dc |
| Dimensions | See Page 2 |
| Temperature | -10 to +40C |
| Humidity | 90%RH non-condensing |
| Material | Flame retardant ABS, polypropylene |
| Conformity | EMC, LVD, CE Marked |
| Country of Origin | UK |

Product Codes

LL-SC/V

Ceiling light level sensor 0-10Vdc, output flush mount

LL-SC/V/S

Ceiling light level sensor 0-10Vdc, output surface mount

Installation

- Avoid direct sunlight entering the sensor.
- Do not site within 1m of forced air heating or ventilation.
- Do not site within 1m of any lighting.
- Do not fix to a vibrating surface.

Flush Mounting

Flush mounting is achieved using the plastic bracket and clips provided. The **LL-SC** should be installed in a ceiling tile through a 64mm hole. Ensure that the ceiling tile is of suitable material to support the weight of the unit and that there is sufficient clearance above the ceiling. No access is required to the ceiling void, other than for wiring.

Surface Mounting

Surface mounting is effected using the optional surface back box. Side knockouts are provided for cable entry. Fixing lugs allow mounting to BESA boxes or metal boxes. Optional security screws can be fitted to prevent removal.

Connections

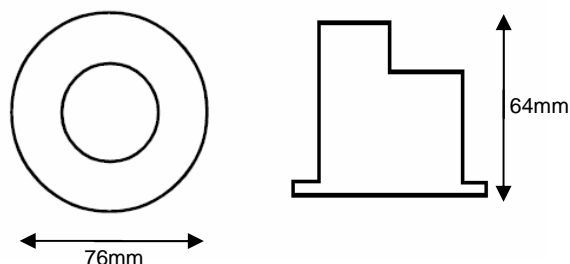
24V = Supply

0v = Gnd

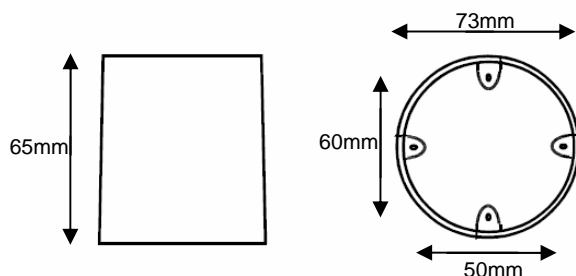
O/P = 0-10Vdc output

Dimensions

Main Housing:

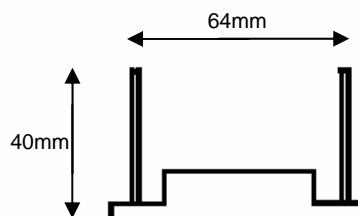


Surface Back Box:



Dimensions (continued)

Flush Mounting Bracket:



Trend scaling

10-2000 Lux:

| | |
|--------|-------|
| Trange | 2000 |
| Brange | -2975 |
| Upper | 2000 |
| Lower | 10 |
| Exp | 4 |