

Technical Overview

The **LL-SE** 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-SE** transmitter uses a photo-diode cell to detect light levels in a selection of lux ranges, providing a linear 0-10Vdc output signal.

The **LL-SE** is designed for outdoor mounting for the measurement of external light levels.



Features

- Link selectable ranges
- 24Vac/dc supply
- 0-10Vdc output

Specification

Sensor reference	Photo-diode
Accuracy	±5% across range
Field of view	60 Degrees
Ranges (Switch selectable):	
	10-2000 Lux
	10-4000 Lux
	10-10000 Lux
Housing:	
Material	ABS (Flame retardant type VO)
Dimensions	55 x 90mm dia.
	Mounting holes 4mm spaced 85mm apart.
Ambient range:	
Temp.	0°C - 50°C
RH	0 - 100% non-condensing
Power supply	24Vac/dc (±10%)
Connections	3-wire
Output	0-10Vdc
Protection	IP65
Country of origin	UK

Product Codes

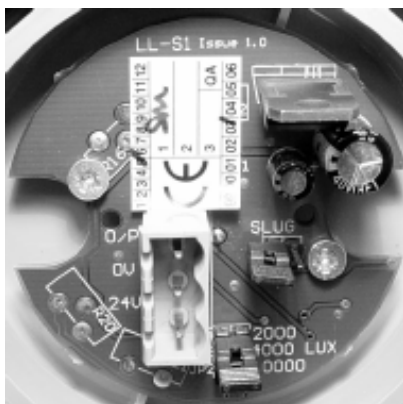
LL-SE/V

External light level sensor 0-10Vdc output range selectable.

Installation

- 1 It is recommended that the unit be mounted with the cable entry at the bottom.
- 2 If the cable is fed from above then into the cable gland at the bottom, it is recommended that a rain loop be placed in the cable before entry into the sensor.
- 3 Remove the front cover by twisting the lid and separating from the main body.
- 4 Using the base of the housing as a template mark the hole centres. Drill two pilot holes at 85mm centres in the surface to which the sensor is to be mounted.
- 5 Fix the sensor to the wall using appropriate screws.
- 6 The housing is designed to make it easy for an electrical screwdriver to be used if desired.
- 7 Feed the cable through the waterproof gland and terminate at the terminal block. Leaving some slack inside the housing, tighten the cable gland onto the cable to ensure water tightness.
- 8 Replace the lid after the electrical connections have been made.

Connections

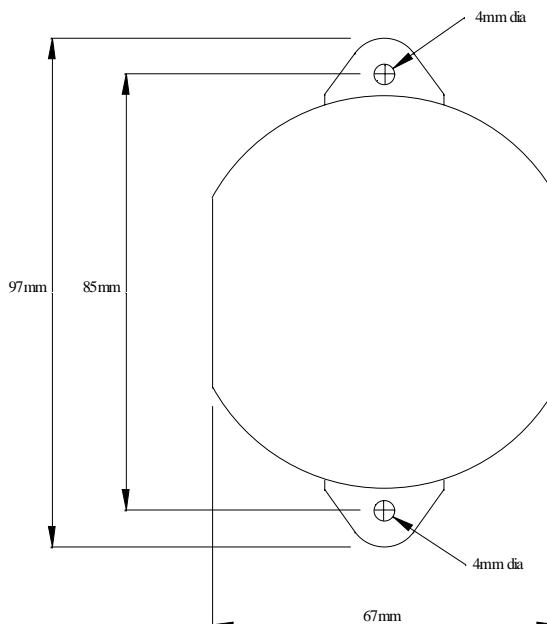


24V = Supply

0v = Gnd

O/P = 0-10Vdc output

Dimensions



Trend scaling

10-2000 Lux:

Trange	2000
Brange	-2975
Upper	2000
Lower	10
Exp	4

10-4000 Lux:

Trange	4000
Brange	-5975
Upper	4000
Lower	10
Exp	4

10-10000 Lux:

Trange	10000
Brange	-14975
Upper	10000
Lower	10
Exp	5