

### Product overview

The AX-LLT ambient light transmitter is designed for use in lighting control applications in indoor and outdoor environments. It converts the ambient light reading into a voltage(0-10V/0-5V) or current (3-wire 4-20mA) signal, making it compatible with most BMS and Lighting control systems. The unit features three jumper selectable output ranges - 0-2000, 0-4000 and 0-10000 lux. The output voltage/current selection is also done using on-board jumpers.

The unit comes in an IP-65 enclosure, which makes it suitable for use in harsh outside environments.



### Products Features

- 24V AC/DC powered.
- Linear voltage/current output.
- IP-65 enclosure
- Easy installation with plug-in connections
- Field configurable output ranges using jumpers

### Product Specifications

|                            |  |
|----------------------------|--|
| Power supply:              | 24 V AC $\pm$ 15% @ 65mA maximum<br>24 V DC $\pm$ 15% @ 40mA maximum |
| Sensor type:               | Photodiode   |
| Sensing range:             | 0-2000 lux, 0-4000 lux and 0-10000 lux.                              |
| Output:                    | Voltage : 0-5VDC, 0-10VDC<br>Current : 4-20mA (3Wire)                |
| Field of view:             | 55°  |
| Accuracy:                  | $\pm$ 5% across the range  |
| Ambient temperature range: | 0°C to +50°C   |
| Enclosure type:            | Flame retardant ABS  |
| Ingress Protection:        | IP-65  |
| Dimensions:                | 104 x 110 x 54 mm  |
| Weight:                    | 125g   |
| Country of origin:         | United Kingdom   |

### Product Order codes

| Order code | Description  |
|------------|--|
| AX-LLT     | Multirange Light Level transmitter ,Voltage and Current Output |

### Installation

The AX-LLT should be installed by a suitably qualified technician in conjunction with any guidelines for the equipment it is to be connected to and any local regulations. Field wiring should be installed to satisfy the requirements set out by the manufacturer of the equipment that the module is being connected to.

Adhere to the following guidelines for the proper operation of the product.

- Avoid direct sunlight entering the sensor
- Do not sight within 1 meter of any lighting
- Do not position sensor on a vibrating surface

The unit should be mounted with the cable entry at the bottom. Using the base of the housing as a template drill two pilot holes at 92mm centres in the surface to which the sensor is to be mounted.

### Output and Range Selection

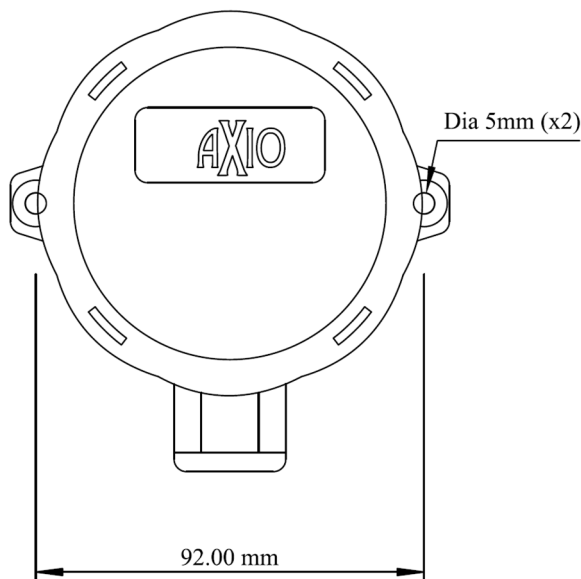
There are three field-selectable jumpers for illuminance range and output voltage/current selection.

Available illuminance ranges are

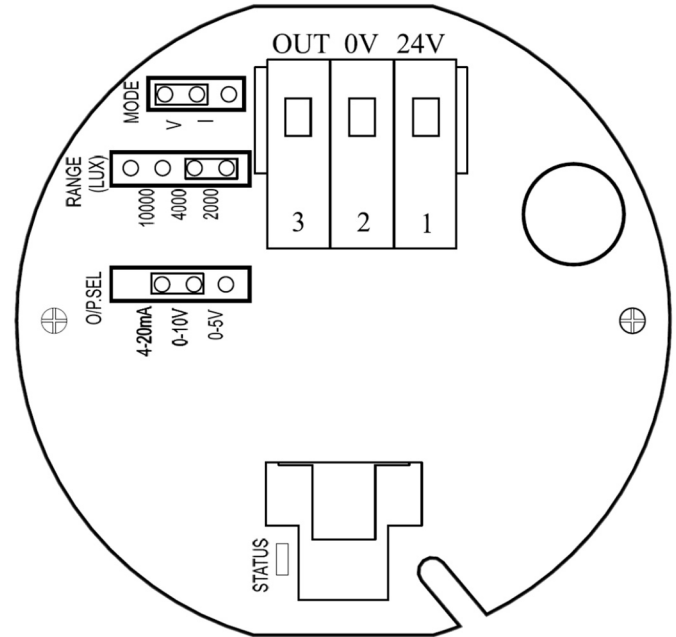
- 0-2000 lux
- 0-4000 lux
- 0-10000 lux

Select 'V' for Voltage output and 'I' for current output. If 'I' is selected, the 'O/P Range' jumper must be set on 4-20mA position. It will otherwise lead to incorrect output.

### Mounting Details

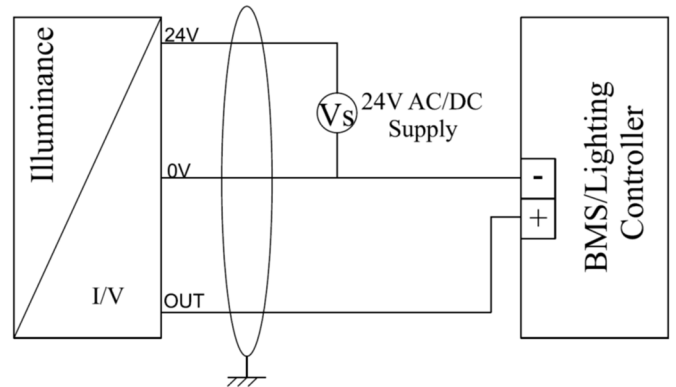


### Connections



1. 24V AC/DC Power Supply
2. 0V
3. Output ( Voltage / current)

### Typical Wiring Diagram



### Status LED

This flashes 4 times every 8 seconds. A brighter flash in the sequence indicates a fault, ordered as:

- |                    |              |
|--------------------|--------------|
| 1 - Program memory | 2 - Internal |
| 3 - Calibration    | 4 - Sensor   |

### Datasheet Contents

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