



Features

- Active control of artificial lighting
- 0-10Vdc or 4-20mA output
- Maximum energy efficiency
- Three selectable ranges:
0-500lux
0-1000lux
0-20000lux
- Optimise light levels
- Precalibrated in Lux for ease of installation
- Special calibration on request

Technical Data

LIC
LIV

Power Supply	24Vac/dc current consumption max.10mA at 24Vdc
Sensor	photodiode
Measuring range	0-500Lux/1000lux/20000lux switchable via jumpers. Other ranges optional as 0-100lux
Output	4-20mA (active) 0-10Vdc (linearised)
Ambient temp.	0/+50 degree
Electrical connect.	0.14...1,5mm ² via terminal screws on circuit board
Measuring error	< +/- 10% of final value
Temperature drift	< +/- 5% of final value/ 10K
Enclosure	plastic, material ABS colour pure white (similar RAL9010) stainless steel option
Dimensions	79x81x26
Installation	wall mounting or on in-wall flush box dia 55mm, base with 4 holes for mounting on vertically or horizontally installed flush boxes, with pre-determined breaking point for on-wall cable entry
Cable entry	M16, including strain relief
Protection class	III according to EN 60 730
Protection type	IP30 according to IEC529
Standards	CE conformity, electromagnetic compatibility according to EN 61326+A1+A2 EMC directive 89/336/EWG

Application

LIC/LIV is an internal light level transmitter designed for use in the active control of artificial lighting.

LIC/LIV is made to optimise light levels and to achieve maximum energy.

LIC/LIV is build and dseigned for outdoor facilities.

The high levels of lux is used for sunshade systems.

The light level increases or decreases automatically via control equipment depending on the level of light alternative swithch off/ on depenping on lux value.

Design Features

LIC/LIV transmitters use photo-diode cells to detect light levels in a selection of lux ranges, providing a linear 0-10Vdc or 4-20mA signal.

The measuring range for LIC/LIV is easily set by a jumpers.

Ordering Codes

LIC	Internal light level transmitter 4-20mA selecteable ranges
LIC 100	Internal light level transmitter 4-20mA 0-100lux
LIV	Internal light level transmitter 0-10Vdc selecteable ranges
LIV 100	Internal light level transmitter 0-10Vdc 0-100lux

Other options on request



Installation and Connection Details

All connections to BEMS controllers, data recorders etc. should be made using screened cable.

Normally, the screen should be earthed at one end only (usually the controller end) to avoid earth hum loops which can create noise.

Low voltage signal and supply cables should be routed separately from high voltage or mains cabling.

Separate conduit or cable tray should be used.

Where possible, the controller's earth should be connected to a FUNCTIONAL EARTH, rather than the mains safety earth.

This will provide better immunity to high frequency noise.

Most modern buildings have a separate earth for this purpose.

Operational Data





Typical Daylight Conditions:


Dusk	15-20lux
Average daylight	2000lux
Bright sunlight	20000+lux

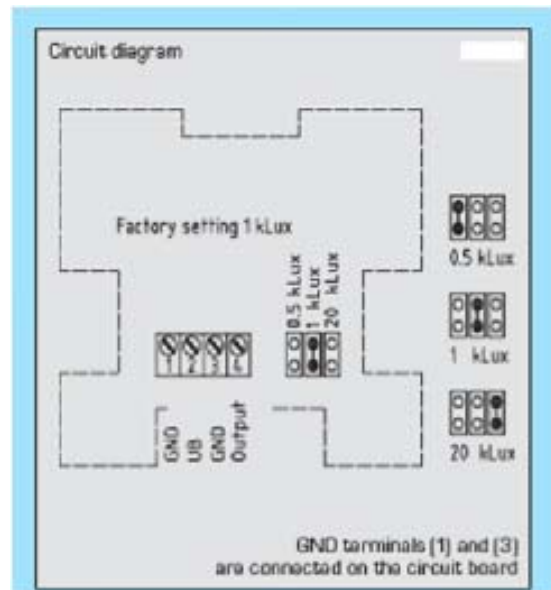
Service Illuminations:

Minimum for outdoor areas	25lux
Exterior walkways & carparks	50lux
Industrial circulation areas, stores etc	150lux
Minimum task lighting	200lux
General offices & retail areas	500lux
Fine task, machine operation, precision ass.	1500lux

Connecting Diagram

-  1 UB-GND
-  2 UB+supply voltage 24V AC / DC
-  3 GND
-  4 Output light intensity 4-20mA (linearised)

-  1 UB-GND
-  2 UB+ supply voltage 24V AC / DC
-  3 GND
-  4 Output light intensity 0-10V (linearised)



Dimensions

