LUMENA®
OUTDOOR & GARDEN LIGHTING
Innovate • Educate • Illuminate

INSTRUCTIONS
LEDIFICE Surface Mount Bollard Light
All Variations – PIR

WARNINGS
PLEASE READ THESE INSTRUCTIONS CAREFULLY PRIOR TO INSTALLATION / MAINTENANCE

- If a fitting is found to be damaged, cease use immediately.
- This is a Class 1 product and must be earthed.
- This unit must be fitted by a competent and qualified electrician.
- Install in accordance with IEE wiring regulations and current Building Regulations.
- To prevent electrocution, switch off mains supply before installing or maintaining this fitting. Ensure other persons cannot restore the electrical supply without your knowledge.
- This light fitting should be connected to a circuit with a 30Ma RCD fitted. Maximum 12-15 fittings on each circuit recommended.
- If replacing an existing fitting, make a careful note of the connections.
- All connections should be made as watertight as possible to avoid electrical shortage.
- When changing the bulb, always switch off at the mains & allow to cool before handling.
- Always use the correct type & wattage bulb. Never exceed the wattage stated.
- The unit may get warm whilst on for a period of time.

LARGE HEAD DESIGN SPECIFICALLY TO ACCOMMODATE HIGH OUTPUT CORN BULBS

Voltage: 220 – 240V 50Hz
Max. Wattage: 60W
Bulb Holder: ES / E27
Recommended Bulb: 20w Corn Bulb
IP Rating: IP65
Product Heights: 0.8m / 1.0m (approx.)
Product Finishes: Graphite Black
Product Head Styles: Dome / Flat / Pillar
Materials: Aluminium and Polycarbonate (stainless steel screws)
Mount: Surface Mount
Sensor: PIR (Motion Sensor) ≤8m detection range / 100˚ detection angle
Sensor Settings: Time Control = 6s, 3m, 5m, 8m / Light Control = 5Lux ≤ all night
Working Temperature/Humidity: -20~+40˚C / ≤93%RH
INCLUDED: Surface Mount Tube, Surface Mount (Base), Bollard Head, Bulb Holder with Connection Box, 3 x Bulb Holder Screws, 4 x Anchor Bolts, 6 x Hex Screws, Allen Key, PIR Sensor, LED Lamp (optional).

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5 YEAR GUARANTEE
see website for more details
Reduced warranty for specific components

CLEANING:

Occasional cleaning and care is recommended for this product, particularly of the sensor. Please refer to our website for the best way to clean different materials.

RETURNS & RECYCLING:

If purchased from a 3rd party, please contact your supplier. If purchased direct, contact us by phone or email:
Lumena Lights Ltd, Centre 33 Long March, Daventry, NN11 4NR Tel: +44 1327 871161 Email: sales@lumenalights.com

Our full returns policy is available on our website.
Waste Electrical Products must not be disposed of with household waste. Please check with your local authority or contact us for more information. Please recycle packaging whenever possible. **Producer Registration Number: WEE/KC3440XY**

SPARES, ALTERNATIVE MOUNTING OPTIONS & ACCESSORIES AVAILABLE FROM LUMENA

J-Bolts can be used to mount the base into wet concrete.
Standard Hex Screws can be upgraded to Pin Hex Security Screws for added security in public areas.
Corn Lamps sold separately.

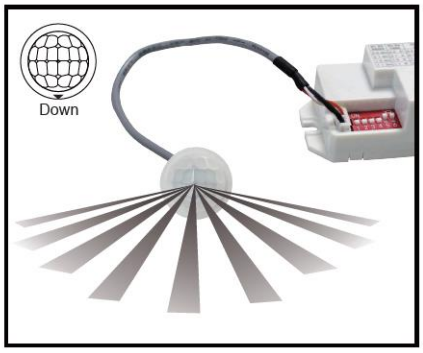
Made in China to Lumena Specification

INSTALLATION:

IMPORTANT: Cable should be laid inside armoured conduit or piping to protect from water-logging, chemicals found in soil and damage. If buried, it should be buried to at least 0.5m below ground to reduce damage risk. If this method is not used, cable warranty will be void.

This bollard should be securely fixed to a concrete base, paving slab or quality wooden decking. It should not be installed directly into soil. For fixing to a new concrete base, root fixing J-bolts will be required (available for sale at Lumena). For fixing into existing paving slabs, concrete or decking, heavy duty fixing screws and bolts will be required. Ensure the fixing screws / bolts are stainless steel or zinc plated to avoid corrosion.

1. Remove 4 x socket screws at the foot of the bollard tube with the 3mm Allen Key provided and lift the bollard body from the base.
2. Position bollard base in the desired location, ensuring the supply cable is central to the base and enough cable is available to easily connect to the bollard connection box at the top of the tube / body with plenty of slack for ease of wiring.
3. Secure the base in place with the correct fixings for your surface (4 x heavy duty anchor bolts have been supplied for optional use).
4. Pull the supply cable up through the bottom of the tube / body of the bollard and then reposition the tube back over the bollard base and secure in place with the allen screws removed in step '1'. Ensure pre-drilled sensor hole in the tube is facing the correct direction for motion detection.
5. PIR dip switch is located in the secondary junction box, attached to the back of the connection box lid. This does not need to be opened until step 9.
6. Open the connection box on the underside of the bulb holder by removing the 2 x cross head screws on the left and right sides and lifting the lid.
7. Pass the mains cable through the loosened cable entry gland / rubber grommet and wire accordingly – see WIRING DIAGRAMS below. Check that the supply wires are correctly identified, the connections are tight and that there are no loose strands.
8. Tighten cable entry gland, replace the lid of the connection box and secure with the 2 x screws removed previously.
9. Pop open the grey junction box to locate the PIR dip switch and PIR sensor.
10. Remove the main sensor with cable & plug from the box.
11. Unscrew the white nut from the back of the main PIR sensor leaving the rubber o-ring of the sensor and carefully pass over the cable plug to completely remove.
12. Pass the sensor through the pre-drilled PIR hole of the tube from the outside, rethread the white nut over the plug and fasten securely in position with the white nut located at the inner tube. The rubber o-ring must be located on the outer side of the tube and not twisted to create a waterproof seal. **IMPORTANT: The embossed arrow on the external sensor MUST face downwards at 180 degrees to ensure correct detection range across the sensor.**
13. Pass the plug and cable through the prepared rubber grommet of the grey junction box and plug into the dip switch.
14. Ensure the dipswitch is set to "test mode" (default) – see SETTINGS for more information.
15. Reattach the grey junction box to the lid which is attached to the main connection box by pushing securely – ensure cables cannot be trapped.
16. Flip the bulb holder so that it is facing upwards and flip on top of the bollard tube. Insert E27 light bulb (see LAMP INSTALLATION / REPLACEMENT for further info) and test (see TESTING below).
17. Once tested, isolate the power and adjust dip switch setting as required – see SETTINGS.
18. Secure the bulb holder to the bollard tube, aligning the 3 x holes and secure in place with the 3 x bulb holder screws provided.
19. Carefully place the head over the bulb, being careful not to knock or damage the bulb and check that the holes in each side of the head match those at the top of the tube.
    NOTE: if the holes are not lining up accurately, try rotating the head by 90 degrees.
20. Secure the head in place with the 2 x socket screws and allen key provided. Alternate the tightening of screws to prevent misalignment.



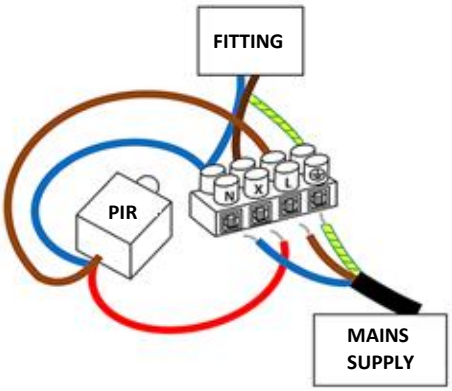
IMPORTANT: Do not overtighten the surface mount base as this could lead to fracture. Do not use high power electric socket tools.

LAMP INSTALLATION / REPLACEMENT: (Ensure power is turned off prior to changing the lamp)

1. If assembled, remove 2 x hex screws from bollard head using the allen key provided.
2. Remove the head by lifting this off the bollard tube / body.
3. Remove / Insert lamp (screw base – E27).
4. Replace head and secure screws with allen key as removed in step '1'. Alternate the tightening of screws to prevent misalignment.

IMPORTANT: Condensation can occur due to the warmth inside the fitting produced by the lamp and the cold air outside. If this is noticed, on a dry day, turn off the power supply, safely remove the head, and wipe dry with a soft cloth.

WIRING DIAGRAMS:



PIR Models are supplied with a 4 way connection block. The fourth connection on the connection block will already be wired to the PIR and one terminal will contain two neutral wires. This should not be changed. Test once wired in default Test Mode.

Some models may include a small length of cable to connect to a junction box at the base of the tube. This can be removed if desired.

CABLES:
Neutral (N) = Blue
Live (L) = Brown
Earth ⏚ = Yellow & Green
Live Out (X) = Red (PIR Only)

Colours of wire sleeving may vary slightly – Test prior to use.

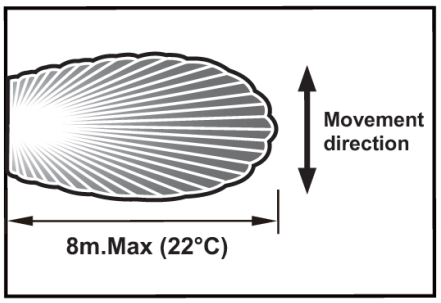
TESTING:

- Test on default setting (test mode): 8m, 6 seconds, day and night.
- Power on and leave for 30 seconds until indicator light is flashing once per second and the load turns off.
- Create movement within detection range to ensure the load switches on.
- After approximately 6 seconds of no movement the load should switch off.
- Perform test for a second time prior to adjusting settings.

SETTINGS:

Indicator Light:

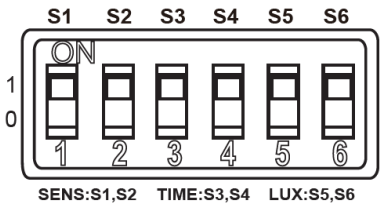
1) 30 seconds after the first power-on, the sensor will enter the standard induction state – LED flashes once per second
2) When the sensor is triggered, the indicator light will light up once.



Default setting (test mode): 8m, 6 seconds, day and night.
Follow the below to select your desired functionality. It is important to adjust the settings to minimum sensitivity for your requirements. If detection range is too sensitive, it may cause unnecessary interference such as from small animals and plants which may reduce the life of the sensor and load.

Detection range based on an ambient temperature of 22-24°C. The higher the ambient temperature, the lower the sensitivity.
Detection range may vary slightly depending on installation height. Detection based on a speed of 1.0-1.5m per second.

Dip switch



S1 S2

S1	S2	Detection range
0	0	8m
0	1	6m
1	0	4m
1	1	3m

A

A:Detection range

8m 6m
4m 3m

S3 S4

S3	S4	Time setting
0	0	6s
0	1	3min
1	0	5min
1	1	8min

B

B:Time setting

6s 3min
5min 8min

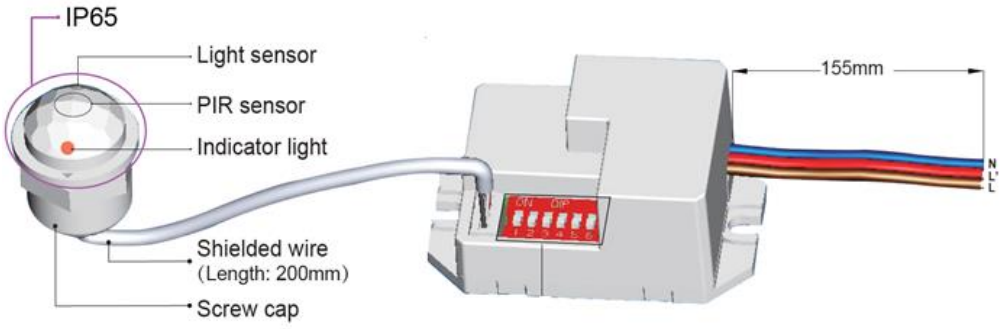
S5 S6

S5	S6	Light-control
0	0	<5LUX
0	1	<20LUX
1	0	<50LUX
1	1	All light

C

C:Light-control

<5LUX <20LUX
<50LUX all light



Full product range & more information: **www.lumenalights.com**