

# Vesta Ambient LED Motion Step Light

## PRODUCT SPECIFICATION SHEET

### 1 — DESCRIPTION

Recessed wall step light with an integrated warm white LED, a passive infrared (PIR) motion sensor and a daylight sensor. In darkness the light comes on when movement is detected and goes out again roughly 30 to 40 seconds after the area is clear; in daylight it stays off. The 3.4" (86 mm) square faceplate is sized to the international 86-type single wall box and fixes with two screws at 60 to 65 mm centers. Hardwired, 120 V; indoor dry locations.

### 2 — CONFIGURATIONS

| FINISH | SENSOR OPTIONS      | FACEPLATE LAYOUT                                                                      |
|--------|---------------------|---------------------------------------------------------------------------------------|
| Black  | Sensor A · Sensor B | Sensor A: round sensor lens centered above the light opening.                         |
| White  | Sensor A · Sensor B | Sensor B: sensor lens offset above the light opening, beside a small daylight sensor. |
| Silver | Sensor A · Sensor B | Both share the same size, wiring and mounting.                                        |
| Gold   | Sensor B only       |                                                                                       |

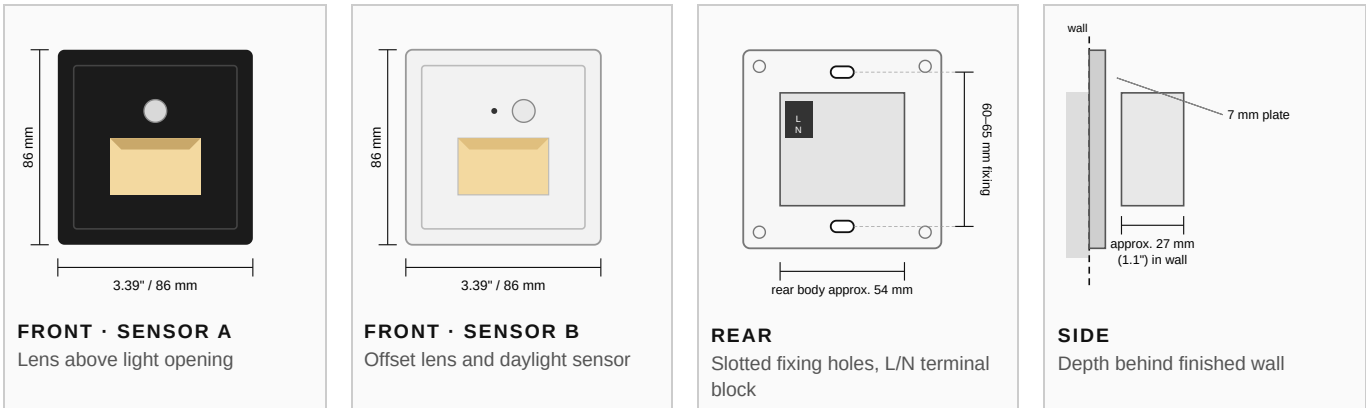
### 3 — MECHANICAL

|                      |                                                          |
|----------------------|----------------------------------------------------------|
| Faceplate            | 3.39" × 3.39" (86 × 86 mm)                               |
| Faceplate projection | approx. 0.3" (7 mm) from wall                            |
| Rear body            | approx. 2.1" × 1.9" (54 × 49 mm)                         |
| Depth behind wall    | approx. 1.1" (27 mm)                                     |
| Recess needed        | fits within a 2.4" (60 mm) opening                       |
| Fixing               | 2 screws, slotted holes at 60–65 mm (2.36–2.56") centers |
| Wall box             | 86-type / UK-EU single box, 60.3 mm centers              |
| Housing              | ABS / PC polymer                                         |
| Finishes             | Black, White, Silver, Gold                               |
| In the box           | Step light, 2 fixing screws                              |

### 4 — ELECTRICAL

|                   |                                                             |
|-------------------|-------------------------------------------------------------|
| Supply voltage    | 120 V AC, 60 Hz (US supply)                                 |
| Connection        | Hardwired, 2-wire: Line and Neutral                         |
| Terminals         | Terminal block on rear body                                 |
| Grounding         | No ground terminal; non-metallic faceplate                  |
| Light source      | Integrated LED, not replaceable                             |
| Power             | 2 W                                                         |
| Color temperature | 3000 K warm white                                           |
| Control           | Built-in PIR motion and daylight sensor                     |
| Dimming           | Output is fixed; supply from a standard, non-dimmed circuit |
| Location          | Indoor, dry locations                                       |

### 5 — DIMENSIONS



6 — SENSOR OPERATION

|                   |                                                |
|-------------------|------------------------------------------------|
| Sensor type       | Passive infrared (body heat) + daylight sensor |
| Detection range   | approx. 10 ft (3 m) in front of the plate      |
| Switch-off delay  | approx. 30–40 s after last movement            |
| Daylight behavior | Stays off in a well-lit space                  |
| Warm-up           | Allow about 30 s after power is applied        |

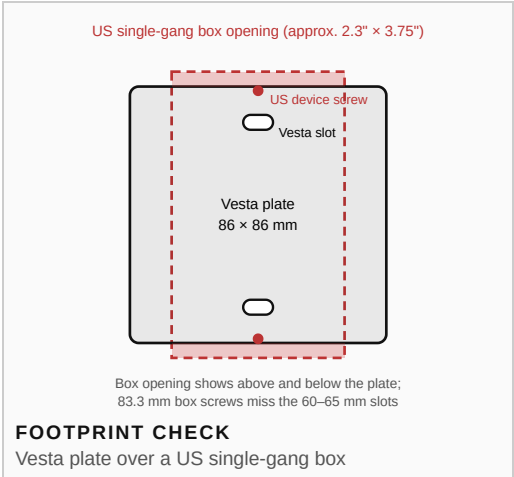
The light responds only when the surroundings are dark. Walking into the detection zone switches it on; it stays on while movement continues and goes out on its own once the area has been clear for the delay period. Nothing needs to be set or programmed.

Because the sensor handles on and off, the fitting is normally fed from a constant (unswitched) supply. Mount it where the plate has a clear view along the stair or hallway, clear of heat sources, vents and direct sunlight.

7 — WALL BOX COMPATIBILITY

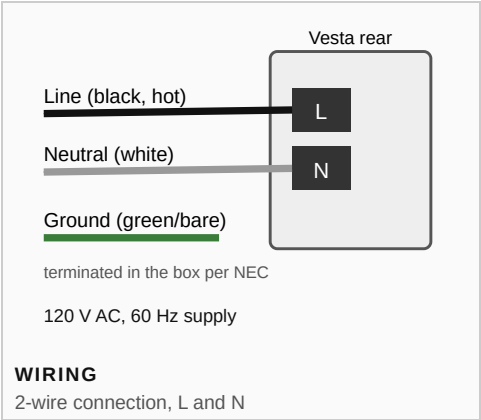
**Not a direct fit for a standard US single-gang box.** Vesta is built to the international 86-type single wall box (the same footprint as UK and European single boxes), which uses fixing screws at 60.3 mm (2-3/8") centers. A US single-gang device box places its screws 3-9/32" (83.3 mm) apart, and its opening is taller than the 3.39" plate can cover.

| WALL BOX                                                                  | SUITABILITY                                                                                       |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 86-type single box, 60 mm centers                                         | Designed for this box                                                                             |
| UK / European single flush box, 60.3 mm centers, 35 mm (1-3/8") or deeper | Recommended in the US; flush and old-work (retrofit) versions are sold by US electrical suppliers |
| US single-gang device box                                                 | Not recommended: fixing points do not align and the plate does not cover the opening              |



8 — INSTALLATION

- 1. Isolate the circuit.** Switch off the supply at the panel and confirm it is dead before touching any conductor.
- 2. Set the box.** Install a 60 mm-center single wall box (86-type or UK/EU single) flush with the finished wall surface at the chosen height, typically 6 to 12 in (15 to 30 cm) above the tread or floor, with the fixing lugs top and bottom.
- 3. Bring in the supply.** Run a 120 V constant feed into the box. Several step lights on one stair can share a circuit, each fed from its own box.
- 4. Connect.** Land the line (hot, black) conductor on the L terminal and the neutral (white) on the N terminal of the rear terminal block. The equipment grounding conductor is terminated in the box by the electrician as the code requires; the fitting itself has no ground terminal.
- 5. Fix the light.** Fold the conductors back into the box, seat the rear body in the opening and fix the plate with the two supplied screws through the slotted holes. Do not overtighten, which can bow the plate.
- 6. Test.** Restore power and allow about 30 s for the sensor to settle. Test in a darkened space: the light comes on as you approach and goes out roughly 30 to 40 s after you leave the zone.



9 — INSTALLATION REQUIREMENTS

- Hardwired fixture. Installation by a licensed electrician in accordance with the National Electrical Code and all applicable local codes.
- Requires a 60 mm-center single wall box (86-type or UK/European single). A standard US single-gang device box is not a direct fit; see section 7.
- Feed from a standard, non-dimmed circuit. The fitting is not designed for use on a dimmer or with a timer or occupancy switch ahead of it.
- Indoor dry locations only. Not for bathroom wet zones, exterior walls, or damp or wet locations.
- Keep the sensor window clear. Paint, plaster or trim over the lens will stop detection.