



MotionLED 2×1W

Elevator Landing-Door Luminaire with PIR Sensor
Installation & User Manual



Part No. FRWD6701

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1. Safety information

Read this manual completely before installing or operating the luminaire, and keep it for future reference.

⚠ WARNING — Risk of electric shock

This product is connected to 230 V AC mains. Installation and servicing must be carried out only by a qualified electrician, in accordance with national wiring regulations.

Always isolate and lock off the mains supply before opening the housing, wiring, or servicing the unit. Confirm the circuit is dead before touching any conductor.

- ▶ **Indoor use only.** The unit is rated IP20 — do not install where it may be exposed to water, condensation or dust.
- ▶ **Protective earth.** Connect the green/yellow conductor to the housing earth point so the stainless-steel enclosure is bonded to the installation protective earth.
- ▶ **Operating range.** Use only between $-10\text{ }^{\circ}\text{C}$ and $+50\text{ }^{\circ}\text{C}$. Do not cover the LED lens or the PIR sensor window.
- ▶ **Approved parts.** Use only the specified H03VV-F $3 \times 0.75\text{ mm}^2$ supply cable and genuine Pelekis spare parts. Do not modify the unit.
- ▶ **Mounting surface.** Fix only to a solid, non-combustible surface able to support the weight of the luminaire.

2. Product description & intended use

The MotionLED 2×1W is a compact landing-door luminaire designed to illuminate elevator landings. Mounted at up to 2.20 m it delivers 115 lx at floor level — more than twice the 50 lx minimum prescribed by EN 81-20 §5.3.7.1 — using two 1 W high-efficiency LEDs and a precision twin-spot lens.

An integrated passive infrared (PIR) sensor switches the light on only when a passenger approaches the landing and switches it off again after an adjustable delay, reducing energy consumption by up to 80 % compared with permanently powered fixtures. The robust stainless steel (INOX) housing gives a vandal-resistant finish suited to any landing.

The luminaire is powered directly from a 230 V AC mains supply; an internal AC/DC converter produces the 12 V DC rail required by the LED driver, so no external power supply is needed.

Intended use

This luminaire is intended for fixed indoor installation at elevator landings as supplementary landing-door illumination. Any other use is outside the product's design scope.

3. Package contents

Check that the following items are present and undamaged before installation:

- ▶ 1 × MotionLED 2×1W luminaire, stainless steel housing, fitted with a 0.2 m H03VV-F 3 × 0.75 mm² lead (L / N / PE)
- ▶ 2 × M4 mounting screws with wall plugs
- ▶ 1 × This installation & user manual

4. Technical specifications

Parameter	Value
Light source	2 × 1 W high-efficiency LED
Colour temperature	5700 K (cool white)
CRI	≥ 90
Luminance at floor	115 lx @ 2.20 m mounting height
Beam pattern	Twin spot, ~25° each
Motion sensor	PIR, ~3 m / 120° detection cone
Auto-off delay	Field-adjustable, 10 s – 3 min
Supply voltage	230 V AC, 50/60 Hz
Power consumption	LEDs on ≈ 4.13 W · Standby ≈ 0.13 W
Connection	H03VV-F 3 × 0.75 mm ² (L, N, E)
Housing	Stainless steel (INOX), surface mount
Dimensions (W × H × D)	120 × 65 × 40 mm
Weight	≈ 180 g
Operating temperature	–10 °C to +50 °C
Protection class	IP20 (indoor use only)
Compliance	EN 81-20 §5.3.7.1 · CE
Lifetime (L70)	≥ 30 000 h

5. Dimensions & mounting

Body dimensions: 120 mm (W) × 65 mm (H) × 40 mm (D); weight ≈ 180 g. The luminaire is surface-mounted with 2 × M4 screws.

Mounting procedure

1. Choose a position above and centred on the landing door, at a height of no more than 2.20 m above the finished floor.
2. Hold the luminaire against the surface, mark the two fixing-hole positions and the cable entry.
3. Drill and fit the wall plugs.
4. Route the supply cable to the unit, then secure the luminaire with the 2 × M4 screws.
5. Complete the electrical connection as described in Section 6 before restoring power.



Typical installation — 115 lx delivered at the floor from 2.20 m

6. Electrical installation

⚠ Isolate before wiring

Switch off and lock out the 230 V supply and verify it is dead before making any connection.

The luminaire connects to a 230 V AC mains supply through its H03VV-F 3 × 0.75 mm² lead. Connect the conductors as follows:

- ▶ **Brown — Line (L)**
- ▶ **Blue — Neutral (N)**
- ▶ **Green/Yellow — Protective Earth (PE)** — bonded to the stainless-steel housing

An internal AC/DC converter then provides the 12 V DC rail for the LED driver; no external power supply is required.

Note

The PE (green/yellow) conductor must always be connected. It bonds the metal housing to the installation protective earth and must not be left disconnected.

7. PIR sensor & delay adjustment

The integrated PIR sensor covers approximately a 3 m radius within a 120° cone in front of the door at typical landing geometries. When motion is detected, the LEDs switch on for the set period and then switch off automatically.

The auto-off delay is field-adjustable between 10 s and 3 min using the TIME control on the sensor module (and, where fitted, a LUX control to set the ambient-light threshold). Turn the control towards the minimum for short hold times or towards the maximum for longer illumination. Allow the sensor a few seconds to stabilise after each adjustment.

8. Operation

In normal use the luminaire remains in standby (≈ 0.13 W) until the PIR sensor detects movement. It then illuminates the landing at 115 lx and returns to standby after the configured delay once movement stops. No user intervention is required during operation.

9. Commissioning & functional test

1. Restore the 230 V supply.
2. Walk into the detection zone in front of the door and confirm the LEDs switch on.
3. Step out of the zone and confirm the LEDs switch off after the set delay.
4. If necessary, adjust the delay (Section 7) and repeat the test until satisfactory.

10. Maintenance & cleaning

- ▶ **Isolate the mains supply** before any cleaning or service work.
- ▶ Wipe the stainless-steel housing and lens with a soft, slightly damp cloth. Do not use abrasive pads or solvent-based cleaners.
- ▶ Periodically check that the PIR sensor window is clean and unobstructed.

11. Troubleshooting

Symptom	Possible cause	Action
No light when a person approach	No mains supply; delay set too short	Verify 230 V at the supply; re-check the detection zone
Light stays permanently on	Continuous movement in the detection cone; delay set near maximum	Clear the detection area; reduce the auto-off delay
Light flickers or cuts out	Loose conductor; unstable supply	Isolate mains and re-seat each conductor; check the supply line
Reduced brightness	End of LED service life; low supply voltage	Replace the Device; verify supply voltage
No protective earth continuity	Green/yellow conductor not bonded to housing	Isolate mains; verify the earth lead is secured to the housing earth point

If the fault persists after these checks, isolate the supply and contact Pelekis Electronics.

12. Compliance & standards

The MotionLED 2×1W is CE-marked and designed to meet the following, as applicable:

- ▶ EN 81-20 §5.3.7.1 — minimum 50 lx landing-door illumination (the luminaire provides 115 lx)

The metal housing is bonded to protective earth through the green/yellow conductor. The full Declaration of Conformity is available from Pelekis Electronics on request.

13. Disposal

Do not dispose of this product with household waste. At end of life, hand it to an authorised collection point for the recycling of electrical and electronic equipment (WEEE Directive 2012/19/EU), in accordance with local regulations.

14. Warranty & manufacturer

This product is warranted against defects in materials and workmanship under normal use for the period stated in your supply agreement. The warranty does not cover damage from incorrect installation, misuse, unauthorised modification, or use outside the rated conditions.

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