

MotionLED



MotionLED 2×1W with PIR Sensor

Elevator landing door illumination — 115 lx on floor



Compact INOX body · 120 × 65 × 40 mm

Key features

- ▶ Two high-output 1 W LEDs deliver 115 lx at floor level
- ▶ Integrated PIR motion sensor — light only when needed
- ▶ Compliant with EN 81-20 §5.3.7.1 (50 lx minimum)
- ▶ INOX housing, surface mount
- ▶ Wide-input DC supply: 12–30 V DC
- ▶ Adjustable auto-off delay, 1 s – 25min
- ▶ Plug-in shaft cabling — fast on-site installation

Description

The MotionLED 2×1W is a compact landing-door luminaire designed to illuminate elevator landings up to 2.20 m mounting height while satisfying the 50 lx minimum prescribed by EN 81-20 §5.3.7.1. With two 1 W high-efficiency LEDs and a precision lens, it produces 115 lx at floor level — more than twice the standard requirement.

An integrated passive infrared (PIR) sensor activates the luminaire only when a passenger approaches the landing, reducing energy consumption by up to 80 % compared with permanently powered fixtures. The sensor delay is field-adjustable. The housing is INOX with a vandalism protection on any landing.

The complete cabling is plug-in inside the shaft. Power can be drawn in parallel with the shaft lighting from a 12–30 V DC supply. Operation in parallel with the cabin lighting is not permitted.

When mounted at 2.20 m the luminaire delivers 115 lx on the landing floor — comfortably above the 50 lx EN 81-20 minimum. The PIR sensor field of view covers approximately a 3 m radius in front of the door at typical landing geometries.

Mechanical dimensions

Width (W)	120 mm
Height (H)	65 mm
Depth (D)	40 mm
Weight	≈ 180 g
Mounting	Surface, 2 × M4~M5 screws
Recommended height	≤ 2.20 m above floor

Technical specifications

Parameter	Value
Light source	2 × 1 W high-efficiency LED
Color temperature	5700 K (cool white)
CRI	≥ 90
Luminance at floor	115 lx @ 2.20 m mounting height
Beam pattern	Twin spot, ~80° each
Motion sensor	PIR, ~3 m / 120° detection cone
Auto-off delay	Adjustable 1s – 25min
Supply voltage	12–30 VDC
Power consumption	Active ≈ 2.5 W · Standby ≈ 0.3 W
Connection	2-wire DC + sensor signal output (optional)
Housing	INOX
Dimensions (W × H × D)	120 × 65 × 40 mm
Weight	≈ 180 g
Operating temperature	–10 °C to +50 °C
Protection class	IP20 (indoor)
Compliance	EN 81-20 §5.3.7.1
Lifetime (L70)	≥ 30 000 h

Wiring & connection

Power is supplied by a regulated 12–30 V DC connected in the terminal on the PCB.

Ordering information

Part No.	Reference	Description
FRWD6701	FRWD6701	MotionLED 2×1W with Inox case