

Nextriv Sense Motion

PIR motion sensor with light measurement

NX-SN-PIR

Nextriv Sense

A battery-powered motion sensor with built-in light intensity measurement. Passive infrared with a Fresnel lens detects occupancy across a 120° horizontal and 100° vertical field, at a distance of up to 8 m — with no camera and no image recording. A bright/dark status set against a user-defined threshold within 1...60,000 lx underpins lighting automation and space utilisation analysis. A single replaceable lithium battery lasts approx. 4 years, and configuration takes one smartphone tap (NFC).



120°/100°

detection field (horiz./vert.)

up to 8 m

motion detection range

1–60,000 lx

light sensor range

~4 yrs

battery life

Key features

- Two sensors in one: passive infrared (motion/occupancy) + light intensity with a bright/dark status against a user-defined threshold
- Detection without a camera — a Fresnel lens and passive infrared; the sensor knows someone is there, but not who
- Wide detection field of 120° horizontal and 100° vertical, range up to 8 m — one sensor covers a typical office room
- Up to approx. 4 years on a single replaceable lithium battery — zero cabling
- Configuration with a smartphone tap (NFC), incl. card emulation mode; remote setting changes via platform downlink
- Direct triggering of companion devices without the gateway — automation scenes with ultra-low latency
- One-minute mounting: 3M tape or screws; compact 50 × 50 mm housing weighing 40 g
- Flame-retardant polycarbonate housing; status LED and an internal reset button

Technical specification

Measurement — motion and occupancy (PIR)

Detection method	passive infrared with a Fresnel lens — no camera, no image recording
Detection area	120° horizontal, 100° vertical
Detection distance	up to 8 m
Reporting	event-driven — sent on detected change; plus a periodic report at the configured interval

Measurement — light level

Measuring range	1...60,000 lx
Resolution	1 lx
Measurement output	bright/dark status against a user-defined threshold

Radio connectivity

Technology	long-range, low-power radio (LPWAN)
Radio band	EU868 (EU); regional variants: US915, AU915, AS923, IN865, KR920, RU864
Tx power	up to 16 dBm (EU868)
Receiver sensitivity	down to -137 dBm
Antenna	internal
Sensor-gateway range	up to approx. 2 km in built-up areas / approx. 15 km in open terrain
Communication	two-way — readings to the platform, remote configuration via downlink

Device features

Threshold alarms	on-device thresholds + alert rules in the Nextriv platform
Scene control	direct triggering of companion devices without the gateway, with ultra-low latency
Configuration	mobile app over NFC (incl. card emulation mode); remotely via platform downlink
Indicators	1× status LED
Button	1× reset (internal)

Power

Battery	1× lithium Li-SOCl ₂ ER14335, 1,650 mAh, replaceable
Battery life	approx. 4 years — 30-min interval + 30 triggers per day, 25 °C; approx. 2.4...4.2 years depending on radio conditions [1]

Enclosure and operating environment

Operating temperature	-20...60 °C
Ambient humidity	0...90 % RH, non-condensing
Ingress protection	IP30 (indoor use)
Housing	flame-retardant polycarbonate, white
Dimensions	50 × 50 × 23.8 mm (1.97 × 1.97 × 0.94 in); lens Ø 17.2 mm (0.68 in)
Weight	40 g (battery included)
Mounting	on flat surfaces — industrial 3M tape or screws

Compliance and approvals	
Approvals	CE, FCC, RoHS
Safety	EN 62368-1

Ordering information	
Product code (SKU)	NX-SN-PIR
Variants	regional radio-band variants (EU standard: EU868) — specify the variant when ordering
System requirement	a Nextriv Hub gateway (e.g. NX-GW-MINI, NX-GW-PRO)

[1] Battery life determined under laboratory conditions — indicative value; the actual time depends on the reporting interval, number of triggers and radio conditions.

Specifications are subject to change without notice. The latest document versions are available in the download centre: nextriv.com/files. Questions: nextriv.com/contact.