

Nextriv Sense Contact

Door and window contact sensor

NX-SN-MAG

Nextriv Sense

An industrial door and window contact sensor with additional temperature and humidity measurement — three sensors in one enclosure. The detection element (reed switch) connects to the transmitter over a 1.5 m cable, so the antenna can sit where the radio signal is good. The UV-resistant IP67 enclosure allows outdoor operation too — on gates, hatches and cold-room doors. A replaceable 4,000 mAh battery lasts over a decade, and a local buffer of approx. 2,800 records with retransmission keeps the event history gap-free.



3-in-1

contact + temperature +
humidity

> 10 yrs

battery life

IP67

UV-resistant enclosure

~15 km

open-terrain range

Key features

- Three sensors in one enclosure: open/closed state, temperature and humidity — fewer devices, one configuration
- High-sensitivity reed switch on a 1.5 m cable, separated from the transmitter — detection at the door leaf, antenna where the signal is
- UV-resistant IP67 enclosure — fully fledged outdoor operation: gates, hatches, cold-room doors
- Triggers at a 20–30 mm magnet distance; magnet in a zinc-alloy housing
- Over 10 years on a single replaceable 4,000 mAh battery (optional 8,000 mAh variant)
- Local register of approx. 2,800 events and readings with automatic retransmission — an audit-ready, gap-free history
- Direct device-to-device mode — a door opening can trigger another device without a gateway
- Configuration and power-on over NFC from a smartphone or remotely from the platform (downlink)

Technical specification

Measurement — open/close state

Detection element	high-sensitivity magnetic reed switch
Detection distance	20–30 mm (magnet distance)
Connection to the transmitter	1.5 m cable
Magnet	zinc alloy, silver grey

Measurement — temperature

Measuring range	-30...70 °C
Accuracy	±0.3 °C (0...70 °C); ±0.6 °C (-30...0 °C)
Resolution	0.1 °C

Measurement — relative humidity

Measuring range	0...100 % RH
Accuracy	±3 % RH (10...90 % RH); ±5 % RH below 10 % and above 90 % RH
Resolution	0.5 % RH

Radio connectivity

Technology	long-range, low-power radio (LPWAN); direct device-to-device mode
Radio band	EU868 (EU); regional variants: US915, AU915, AS923, IN865, KR920, RU864
Tx power	up to 16 dBm (EU868); up to 20 dBm (US915)
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

Local buffer	approx. 2,800 records; automatic retransmission after a connectivity outage and historical data retrieval
Threshold alarms	on-device thresholds + alert rules in the Nextriv platform
Direct triggering	direct device-to-device mode — an open/close event can control another device on the network without a gateway
Configuration	mobile app over NFC; remotely via platform downlink
Power on / off	NFC or button (internal)
Indicators	1× LED indicator (internal)
Button	1× power / reset (internal)

Power

Battery	1× lithium Li-SOCl ₂ ER18505, 4,000 mAh, replaceable (optional 8,000 mAh variant)
Battery life	over 10 years with fast radio transmission (EU868/US915); approx. 4.5 years with maximum-range transmission (EU868) — 10-min interval + 48 events/day [1]

Enclosure and operating environment

Operating temperature	-30...70 °C
Ambient humidity	0...100 % RH, non-condensing
Ingress protection	IP67, UV-resistant enclosure — outdoor operation too
Housing	transmitter: ABS + PC (flame retardant), white; magnet: zinc alloy, silver grey
Dimensions	transmitter: 105.6 × 85.3 × 27 mm (4.16 × 3.36 × 1.06 in); magnet: 31 × 14 × 7.5 mm (1.25 × 0.59 × 0.31 in)
Mounting	transmitter: screws, 3M tape or cable ties; magnet: screws or 3M tape

Compliance and approvals

Approvals	CE, FCC, ISED, RCM, Telec, ICASA
Environmental	RoHS

Ordering information

Product code (SKU)	NX-SN-MAG
Variants	4,000 mAh battery (standard) or 8,000 mAh (longer life) — 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 radio configuration, reporting interval, number of events 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.