

Wireless Pull Cord Transmitter

Technical spec sheet



Secure ID + CRC



433 MHz ASK RF



3-5 Year Battery



IP65 Enclosure



BLE beacon



Location Support

Highlights

- Reliable alarm transmission**
 >= 7 packets per alarm burst (>= 1.2 s). Multiple presses do not cancel.
- Secure device identity**
 Event/input ID + unique device serial + CRC in each encoded packet.
- Timing-aware RF**
 Pilot/preamble before each packet burst supports time-to-delivery measurement.
- Staff-only cancel**
 Hidden cancel with authorized staff tag prevents patient self-cancel.
- Supervision + low battery**
 Check-in 55 min default (115 min option / disable). Low battery <10% with 120 min alerts (optional).
- Long-life, field replaceable**
 2xAAA (3 V, 600 mAh). Typical 10+ years; up to 15 years (profile dependent).

Key Specifications

RF band	433 MHz ISM (315/915 MHz optional variants)
Modulation	ASK
Data rate	4 kB/s
TX power	Adjustable; 5 mW default after calibration
Packet	24-bit encoded + Event ID + Serial + CRC
Pilot/preamble	Before each packet burst
Alarm burst	>= 7 packets; >= 1.2 s (minimum)
Presence check-in	55 min default (115 min option / disable)
Low battery	<10% capacity; 120 min alert interval (optional)
Battery	2xAAA, 3 V, 600 mAh; user replaceable
Battery life	10+ yrs typical; up to 15 yrs (ref profile)
Ingress	IP65
Weight	28 g (excluding lanyard)
NFC	MIFARE 26-bit compatible tag
Location support	Receiver RSSI + timing can assist position estimation (system-dependent)

BLE beacon details:

Broadcasting every 100ms
 Tx calibrated for location and positioning
 Powered from the same batteries
 No additional coin battery is required



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Battery Replacement

2xAAA alkaline batteries (2x1.5=3V) — field replaceable • Follow steps below

Tip: Use a plastic opening tool when possible to avoid scratching the enclosure. Avoid shorting the coin cell.

1 Unscrew the back cover



- Use a Phillips screwdriver to remove the rear four screws
- Keep the screws in a safe place for reassembly.

2 Open the enclosure



Gently pry the back cover using a flat screwdriver.

Preferred: use a plastic opening tool to protect the housing.

3 Locate the battery side



- This view shows the top side of the PCB.
- The AAA batteries are located on the left front side inside the case.

4 Replace the two AAA batteries



- Carefully remove the old AAA and insert the new battery with the correct polarity.
- Use quality brands (e.g., Panasonic or Duracell). Avoid no-name batteries.

5 Reassemble and test



- Clip the case back together and reinstall the screw.
- Allow 30–40 seconds for auto-init and network registration, then press the Alarm button and confirm delivery.
- Check-in and battery supervision resume automatically.