CONTROLLEDCARE
109 Railside Road, Unit 305, M3A1B2, North York, Canada

Wireless Nurse Call Pull Cord (Patient / Staff) One-button alarm • Supervision check-in • Low-battery reporting • BLE credential

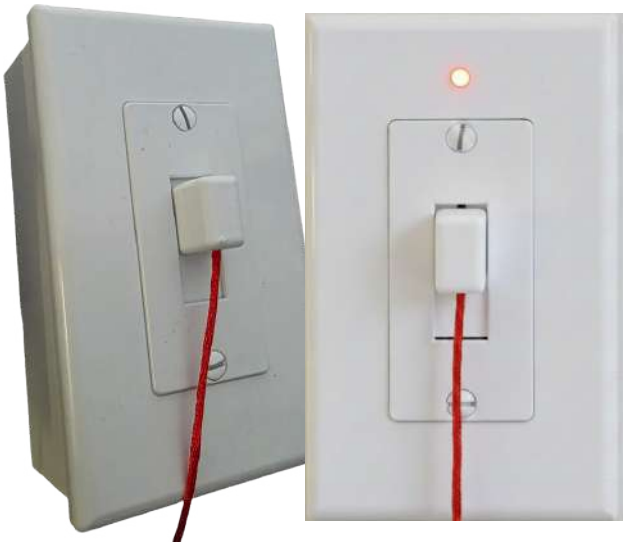
Wireless Sliding Pull Cord Transmitter

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**
  1xAA (1.5 V, 1100 mAh). Typical 5+ years; up to 10 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	1xAA, 1.5 V, 1100 mAh; user replaceable
Battery life	5+ yrs typical; up to 10 years (ref profile)
Ingress	IP65
Weight	118 g (excluding enclosure)
BLE	BLE iTag beacon 32-bit compatible
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

1xAA alkaline batteries (1x1.5V) — field replaceable • Follow steps below

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

1 Detach the battery cover

- Use a flat or plastic screwdriver to remove the cover by sliding up
- Keep the cover in a safe place for reassembly.

2 Open the enclosure

- Gently pry the front 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 AA batteries is located on the front side inside the case.

4 Replace the alkaline AA battery

- Carefully remove the old AA battery 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.