

Battery-less Pull Cord Transmitter

Technical spec sheet



Self-powered



433 MHz FSK RF



No battery



Single-gang panel



800k+ cycles



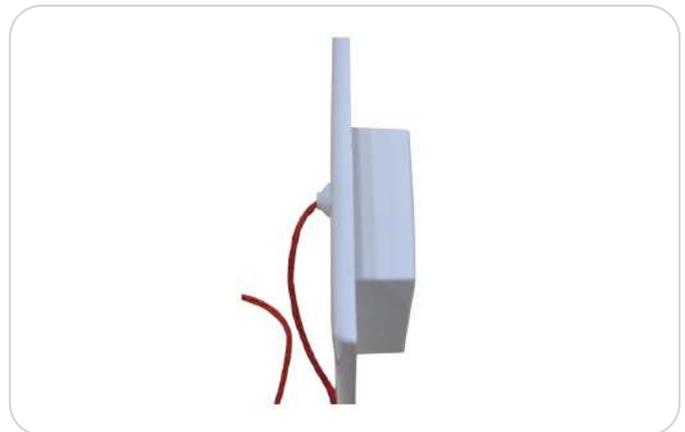
Maintenance-free

Highlights

- No maintenance operation**
 Self-powered kinetic energy switch eliminates battery replacement and charging.
- Reliable alarm activation**
 Rebound-type mechanism generates energy on each pull and transmits instantly.
- Eco-friendly design**
 Reduces hazardous disposable battery waste and service visits.
- No configuration required**
 Pre-programmed unique identity - install, connect to receiver, and use.
- Long mechanical lifetime**
 Rated for more than 800,000 activations (profile dependent).

Key Specifications

Power	Self-powered (no battery)
RF band	433 MHz ISM
Modulation	FSK
Data rate	4 kb/s
Packet	20-bit (unique ID + input status + pilot)
Control distance	30 m (indoor, typical)
Operating temp.	-20 C to +55 C
Lifetime	>800,000 activations
Form factor	Standard single-gang wall panel
Weight	127 g



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Self-Powered Operation

Kinetic energy harvesting • No batteries • Follow steps below

Tip: Mount to a standard single-gang wall box. Pull the cord to confirm alarm delivery at the receiver or nurse call console.

1 Activate the pull cord



- Pull action triggers the rebound-type kinetic switch.

2 Energy harvesting module



- Harvested micro-energy powers the transmitter electronics.

3 Super capacitor buffering



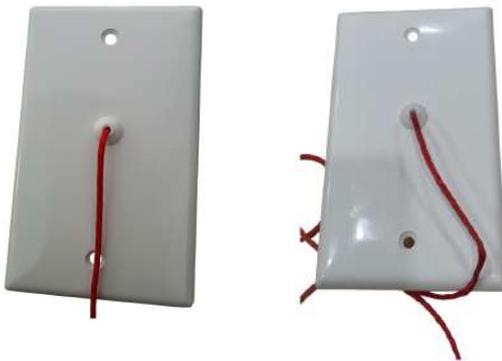
- Super capacitor buffers energy for rapid repeat pulls.

4 RF alarm transmission



- Transmits 20-bit packet over 433 MHz FSK at 4 kb/s.

5 Install and test



- Mount to a standard single-gang wall box (North American standard).
- Route and secure the pull cord; ensure free travel with no sharp bends.
- Maintenance-free operation: no batteries, no recharging, no periodic service.
- Pull the cord and confirm alarm reception by the system receiver/decoder.