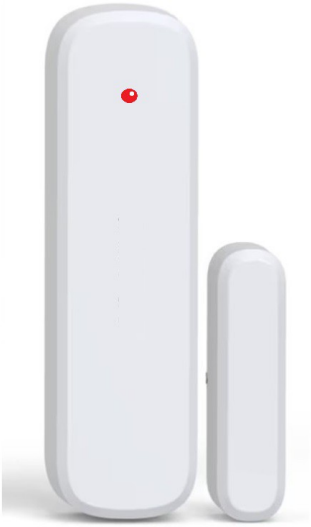
# #KD-DS-3700
# Wireless Door Sensor
# for Kadtronix HSRS & GPRS systems



Compact and inconspicuous, the KD-DS-3700 wireless door/window sensor is simple to install and easily blends with most decors. The device is compatible for use with the following Kadtronix systems (4th generation):

- HVAC Smart Relay Switch (HSRS)
- General Purpose Relay Switch (GPRS)

*Note: For use with compatible Kadtronix wireless systems featuring 4th generation controllers, 433 MHz.*

The KD-DS-3700 is suitable for use with a variety of door and window types. Powered by a single AAA battery, the device provides consistent and reliable sensing with wireless RF signaling. It is a two-part design solution that consists of electronic sensor/transmitter unit and magnet. The device emits RF message signals when the corresponding door or window is opened or closed. (It also sends periodic heartbeat status updates every hour.)

*Notes:*

- *Uses a single AAA battery.*
- *The device is easily registered (enrolled) at a Kadtronix GPRS or HSRS controller.*
- *Unique, factory-assigned address (serial number) - requires no initialization sequence. (More than 1 million possible addresses.)*

## Features:

- Compact & unobtrusive, blends easily with most decors
- Easy-open case – use flat-blade screwdriver to pry apart the back cover
- LED activity indicator
- RF range: 50 - 150 ft. (typical)
  500 ft. (max – open air)
- Requires no initialization sequence
- Unique factory-assigned 20-bit address / ID (serial no.)
- Long-life operation via alkaline battery (1 x AAA)
- Compact size (see specifications)
- Includes screws and double-sided foam mounting tape

## LED Indicator:

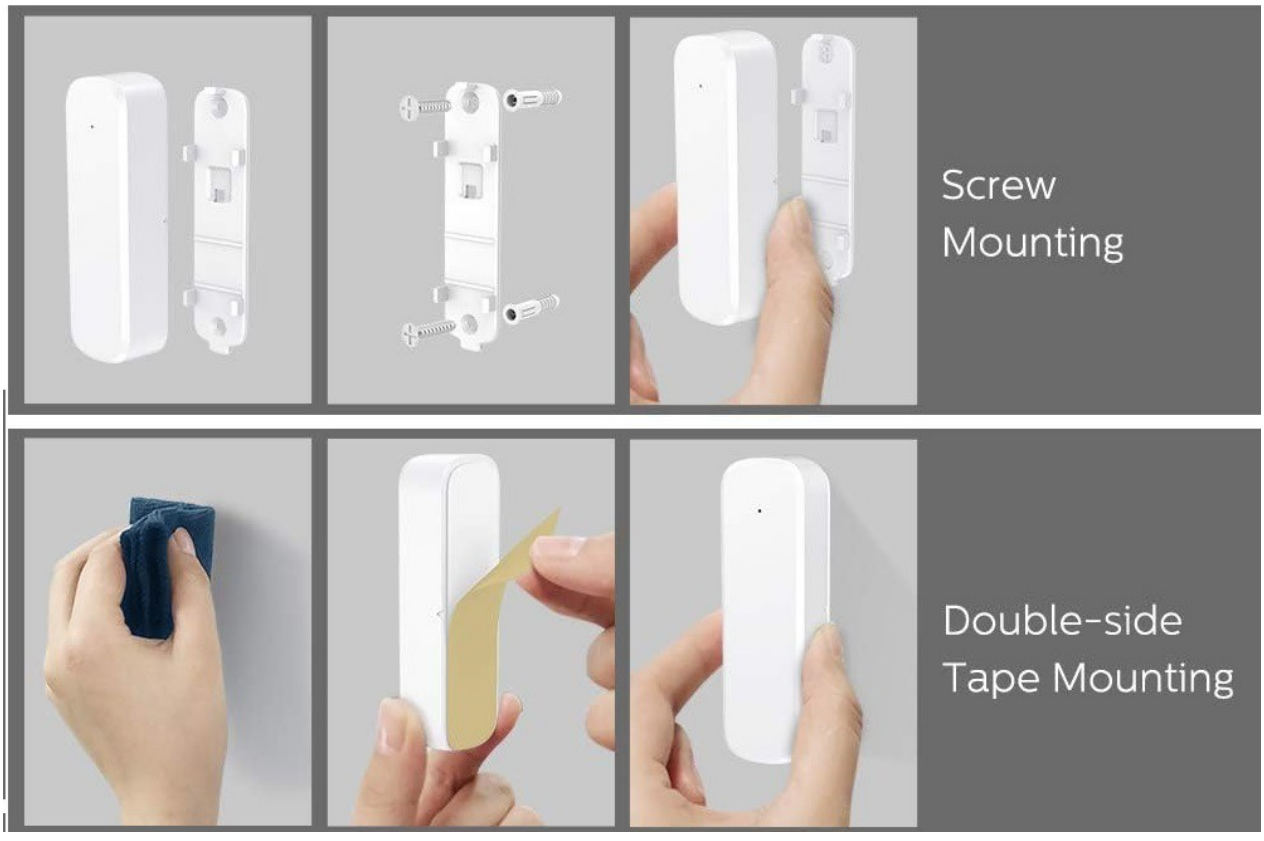
The sensor features a built-in activity indicator. Possible event actions are defined below:

| Event | LED activity |
|---|---|
| Door Closed | Identified by a sequence of rapid LED flashes. Occurs when the magnet is detected in close proximity to the sensor / transmitter unit. |
| Door Open | Identified by a sequence of rapid LED flashes. Occurs when the magnet is separated from the sensor / transmitter unit. |
| Supervised Heartbeat | Occurring hourly, the unit transmits an unsolicited RF "heartbeat" message sequence, identified by an abbreviated series of rapid LED flashes. |
| Low Battery | Identified by a single LED flash, triggered by door open or closed.<br>Note: Following a door open/closed event (described prior), the unit subsequently transmits a "low battery" message sequence, coupled with a single LED flash. |

## Mounting:

- Choose preferred install method: screws or double-sided foam tape (both included). For best results, attach sensor unit to the stationary part of the opening (typically the door-frame or window-frame). Affix magnet to the moving part (i.e., door or window).
- For screw mounting, begin by detaching the back cover. (Use a flat-blade screwdriver to carefully pry apart.) Then apply the detached cover to desired location as shown in the image below.
- For tape mounting, begin by thoroughly cleaning the destination surface using alcohol or similar to ensure a secure, permanent attachment.
- Avoid exposure to moisture, hazards, or extreme temperatures.
- Avoid mounting near electrical wiring or wi-fi equipment, as these may impede RF signals.
- Verify the red LED illuminates when the door is opened, and also when closed.

*Note: The sensor transmits a robust RF signal that penetrates typical building construction materials and accommodates mounting to most any door type including wood, steel and aluminum.*

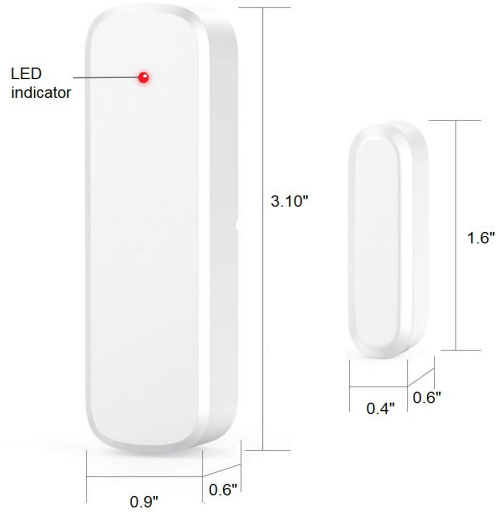


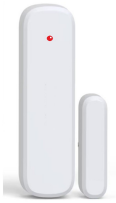
## Battery replacement:

- Using a flat-blade screwdriver, carefully pry apart the back cover
- Install a fresh cell (1 x AAA), noting proper polarity
- Replace the cover

## Specifications:

- Part no. KD-DS-3700
- Sensor dimensions: 3.10"L x 0.90"W x 0.60"D
- Magnet dimensions: 1.60"L x 0.40"W x 0.60"D
- Magnet gap distance: 1” (max)
- Battery: 1.5V alkaline (1 x AAA), 2 to 3 year life
- Working temp: -4ºF (-20ºC) to 122ºF (50ºC)
- Humidity: 85% max
- RF transmit range: ~500 ft (open air)
- Transmitting frequency: 433 MHz
- Agency Listings: FCC




| Style | Part No. | Application(s) | Description |
|---|---|---|---|
|  | #KD-DS-3700 | Doors, windows | • Long range<br>• Classic style<br>• Supervised "heartbeat" messages<br>• 1 x AAA battery<br>• Measures: 3.1" h x 0.9" w x 0.6" d |
| | #KD-DS-1500 | Doors, windows | • Contemporary design<br>• 1 x AAA battery<br>• Measures: 2.75" h x 1.0" w x 0.6" d |

## Contact Information

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