#KD-DS-5816WM
Wireless Door Sensor
for Kadtronix HSRS & GPRS systems

The KD-DS-5816WM wireless door/window sensor is smartly designed for unwavering dependability and proven performance. The device is compatible for use with the following Kadtronix systems (3rd generation):

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

    Note: Also compatible with some Honeywell wireless security systems featuring 345MHz alarm panels.

The KD-DS-5816WM is suitable for use with a variety of door and window types. Powered by a single CR123A battery (included), 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 whenever the corresponding door or window is opened or closed. (It also transmits periodic status updates every 70 to 90 minutes.)

Notes:

- *Uses a single CR123A battery (included).*
- *The device is easily registered (enrolled) at a Kadtronix GPRS or HSRS controller (3rd generation).*
- *Unique, factory-assigned address (serial number) - requires no initialization sequence. (Over 16 million possible addresses.)*

Features:

- RF range: 200 ft. (open air) / 50 ft. typical
- Requires no initialization sequence
- Unique, factory-assigned address (serial no.)
- Long-life battery (CR123A, included)
- Dual sensing functions: internal reed switch (requires magnet – included), and wiring input terminals for optional field-supplied external wired switches (closed contact loop)
- Available colors: while (KD-DS-5816WM), and brown (KD-DS-5816BR)
- Includes screws, tape, and mounting plate

Mounting:

Mount the unit such that the magnet is located to the right of the transmitter. (The device may be applied in any preferred orientation, as long as the relationship of the transmitter to the magnet is maintained.) Two holes are provided for mounting to any suitable surface. While the mounting plate is optional, it is recommended for ease in detaching the unit for servicing and/or battery replacement. Before permanently mounting the unit, test for proper signal reception at the GPRS / HSRS controller. If necessary, relocate or re-orient the sensor.
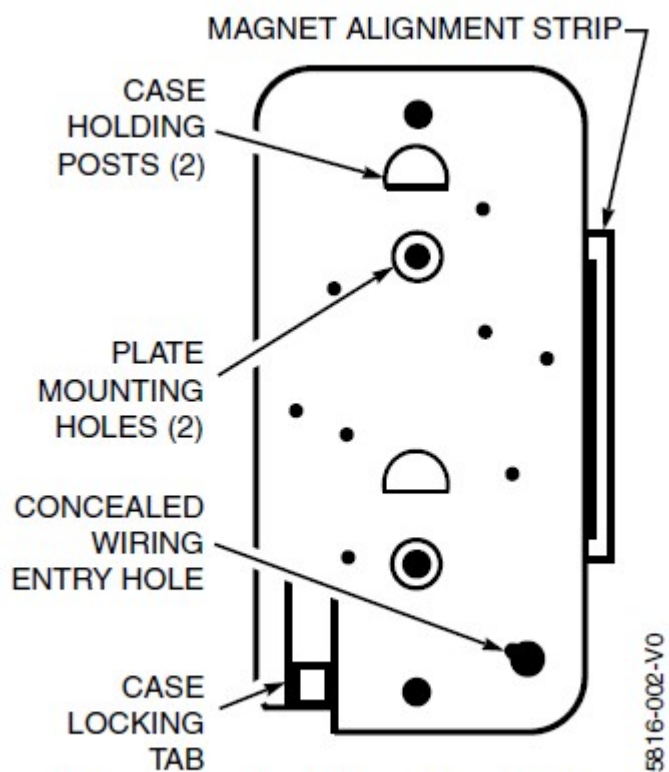
MAGNET ALIGNMENT STRIP

CASE HOLDING POSTS (2)

PLATE MOUNTING HOLES (2)

CONCEALED WIRING ENTRY HOLE

CASE LOCKING TAB

5816-002-V0

Diagram 1. Mounting Plate

- Detach the transmitter cover by inserting a flat blade screwdriver into the pry-off slot.
- Disengage the transmitter from the mounting plate by inserting a small screwdriver into the case locking tab window. (See Diagram 1 for locking tab location.) Press screwdriver against the locking tab while sliding the plate downward along the case back.
- If external wired contact loop is to be used with concealed wiring, feed the wires through the concealed wiring entry hole at one corner of the mounting plate. For surface wiring entry, a thin "breakout" area is provided in the case wall. Wiring can be run through this "breakout".
- Install mounting plate at the desired location using supplied screws.
- Attach case to the mounting plate via designated keyholes. Slide the keyhole slots in the case down onto the mounting plate's case holding posts. The locking tab will click as the case back locks in place.
- Mount the magnet as indicated in the diagrams, carefully noting the designated alignment marks embossed on the case. (There is also a magnet alignment strip located on the mounting plate.)
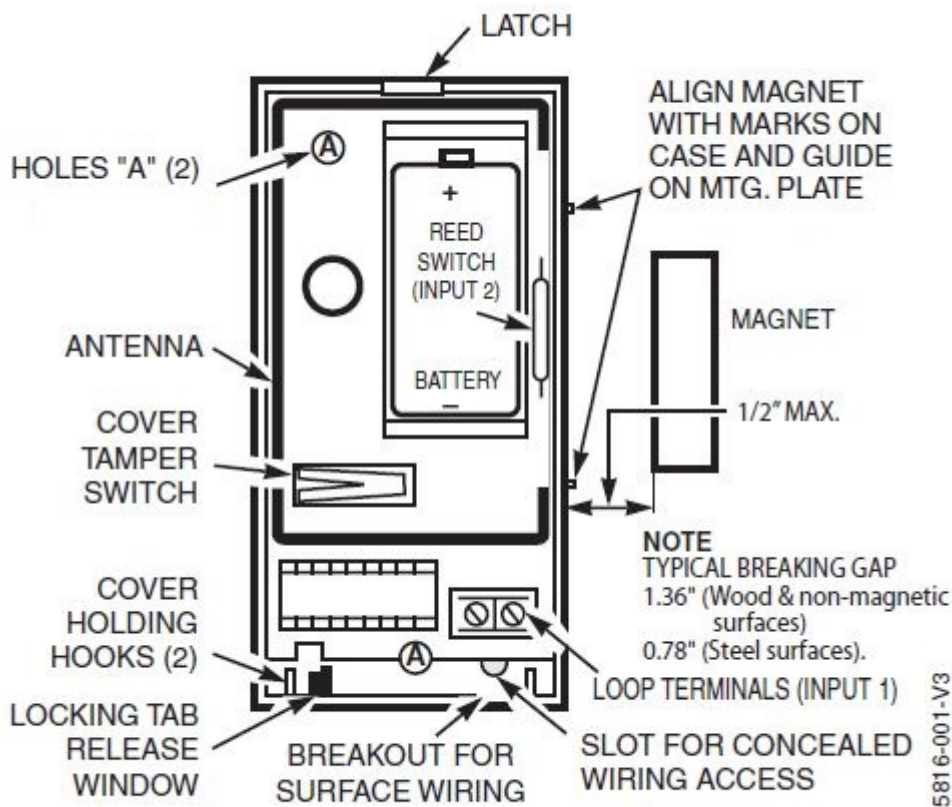
Diagram 2. Transmitter, Cover Removed

External contact loop (optional):

The KD-DS-5816WM is a dual-sensing device, possessing capability for not only its internal magnetic reed switch, but an optional external contact loop (for closed contact devices such as traditional alarm contacts). The external contact loop option provides wiring terminals for accepting one or more external wired switches. (Requires normally closed contacts and low voltage wiring - not supplied.) Multiple switches may be wired together in a series loop.

- Remove battery from the transmitter.
- Wire the external switch(es) using suitable low-voltage cabling.
- Connect wire ends to the sensor's loop terminal inputs (see Diagram 2).

    Notes:

    - *External contact loop option requires closed circuit devices.*
    - *Loop response time is a nominal 100 milliseconds.*
    - *If the contact loop option is not to be implemented, disable it by applying a jumper wire across the terminals. (Otherwise, inadvertent trigger will occur at the GPRS / HSRS controller.)*
    - *Wireless sensor device(s) must be properly registered (i.e., paired) with the applicable GPRS / HSRS controller. To utilize both sensing functions of the KD-DS-5816WM (internal magnetic reed switch and external contact loop), no special action is necessary at the controller. One simple registration (pairing) detection event accommodates single sensing or dual sensing. (Previous sensors (GEN2) required each function to be registered individually at the controller. Thus, dual sensing required two separate registration detection events.)*

Battery Installation / Replacement:

- Remove the transmitter cover as described earlier.
- Insert battery at the location shown in Diagram 2, observing the prescribed polarity.
- Replace transmitter cover by engaging the hooks along the bottom edge and carefully snapping it shut.

    Note: Use proper care to avoid bending or damaging the antenna.

Specifications:

- Part no. KD-DS-5816WM
- Dimensions: 3-1/16"H x 1-9/16"W x x 1-3/16"D (40mm x 78mm x30mm)
- Battery: 3V Lithium (Panasonic CR123A, Duracell DL123A, Sanyo CR123A, Varta CR123A, or ADEMCO 466)
- Transmitting frequency: 345 MHz
- Agency Listings: FCC,IC

Compatible Sensor Models:

Style	Part No.	Application(s)	Description
-	#KD-DS-5800-MINI	Doors, windows	Compact size, coin-cell battery (CR2032) measures: 2.2" h x 1" w x 0.3" d
A	#KD-DS-5816WM	Doors, windows	Full size, dual-zones (wired + wireless) measures: 3-1/16" h x 1-9/16" w x 1-3/16" d
B	#KD-DS-5800-MICRA	Windows	Recessed, installs in window frame measures: 0.75" dia.
C	#KD-DS-5800-RPS	Doors	Recessed, built-in plunger switch measures: 0.75" dia.
D	#KD-DS-5818-MNL	Doors, windows	Recessed, installs in door frame measures: 0.75" dia. X 3.0" long

Notes:

- *Batteries included with all styles.*
- *Sensors may also be compatible for use with Honeywell wireless (345 MHz) alarm systems.*

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