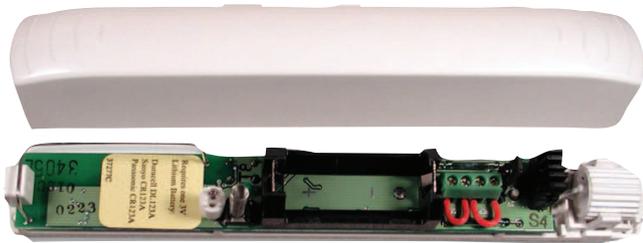


RF3405E Wireless vibration sensor w/loop input

RADION inertia



The RF3405E is a wireless transmitter with an inertia sensor, reed switch, and supervised external contact input. It is used for monitoring doors, windows, or other dry contact devices.

System overview

The RF3405E has an inertia sensor with programmable sensitivity settings. You can set the transmitter to monitor the inertia sensor or external loop. Internal reed switches can also accept a dual EOL resistor supervised dry contact input from an external device. You can enable or disable the reed switch. A cover and wall tamper switch is provided. All transmissions from the RF3405E send battery status information.

Functions

Supervised External Loop

Supervision is provided by transmitting a signal to the receiver every 13 minutes if there is no other activity.

Gross or Minor Attack Movement Settings

Program the minor attack settings to react after four or eight repetitive pulses. If gross attack is enabled, the inertia sensor only reacts to major attack movement. The gross attack movement has four sensitivity settings.

Test Mode

Once the detector is mounted, you can place it in test mode. Separate test modes verify the gross attack or minor attack movement settings. During the testing time, the LED flashes twice each time a magnetic contact changes state or the external contact changes state.

- ▶ Internal magnetic reed switch
- ▶ Supervised external loop
- ▶ Gross or minor attack movement settings
- ▶ Test mode

Regulatory information

Region	Regulatory compliance/quality marks	
Europe	CE	2014/30/EU EMC Directive (EMC); 2014/35/EU Low-Voltage Directive (LVD); 1999/5/EC Radio equipment and Telecommunications Terminal Equipment (R&TTE); 2011/65/EU Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)
USA	FCC	T3X-RF05
Brazil	ANATEL	1164-06-1855

Installation/configuration notes

Mounting Considerations

- The maximum range of the inertia transmitter, in open air, is approximately 300 m (984 ft). Keep this transmitter within 100 m (328 ft) of the receiver to which it is assigned.
- Mounting the inertia transmitter on metal surfaces might reduce its RF range. Mounting it on iron or steel surfaces might affect the operation of the internal magnetic contact.
- Mount the inertia transmitter on the door or window frame and mount the magnet assembly on the moving portion.

Compatibility Information

Receiver Control Panels

RF3227E D7240, D7220, D6412, and D4412

B810 B9512G, B8512G D9412GV4, and D7412GV4

Recommended Batteries

The following battery types are recommended for correct operation of your transmitter: Duracell® DL123A, Energizer® EL123AP, Panasonic® CR123A.

Parts included**Technical specifications****Environmental Considerations**

Relative Humidity	0% to 95% non-condensing
Temperature (operating):	-20C to +60C (-4°F to +151°F)

Mechanical Properties**Dimensions**

Transmitter:	2.7 cm x 2.4 cm x 16.9cm (1.1 in. x 0.9 in. x 6.7 in.)
Magnet:	1.9 cm x 1.3 cm x 16.9 cm (0.75 in. x 0.5 in. x 2.4 in.)
Supervisory Interval	13 min nominal

Power Requirements

Battery:	One 3 VDC lithium battery
Battery Life	A minimum of 3 years under normal operating conditions with recommended battery types (2 years if using the inertia sensor).

Transmission Characteristics

Frequency:	433.42 MHz
Maximum RF Power	Less than 10 mW

Trademarks

Duracell® is a registered trademark of the Gillette Company, USA, in the United States and/or other countries.

Energizer® is a registered trademark of Eveready Battery Company, Inc.

Panasonic® is a registered trademark of Matsushita Electric Industrial Co., Ltd.

Ordering information

RF3405E Wireless vibration sensor w/loop input
Monitors doors and windows via an inertia sensor
Order number **RF3405E | 4.998.126.451**

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