



# Wireless Window and Door Sensor

Maximize HVAC savings and/or security by monitoring door and window status using the ILLUMRA E9T-MCS sensor. The solar powered magnetic contact alerts to open/closed status and interfaces with a variety of ILLUMRA products.

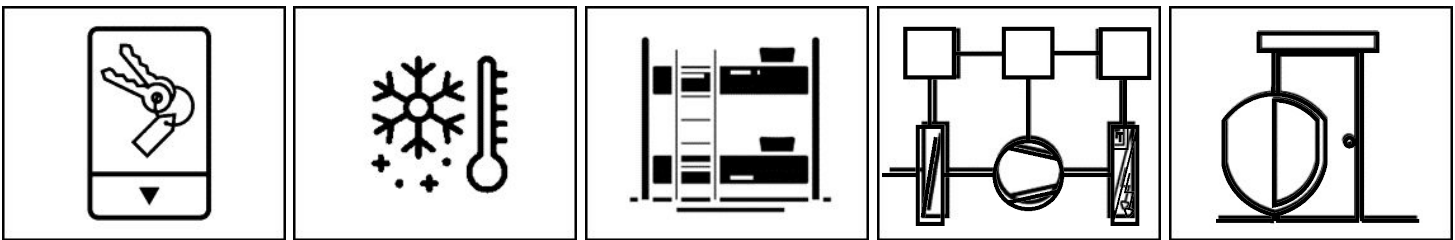
Reduce energy waste 20-60% by adding an interlock to disable HVAC systems when doors and windows are left open.



- Integrated solar cell - coin battery slot
- Mounting bracket included
- No wiring needed
- Control Thermostats, HVAC systems, lights, or other electrical loads.
- Backup battery option.



## Applications



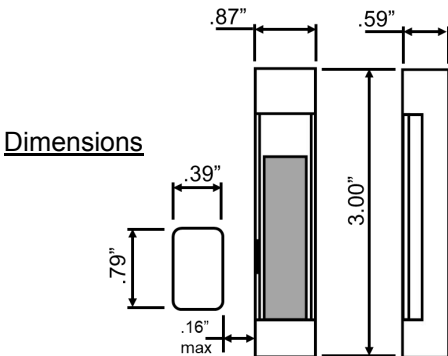
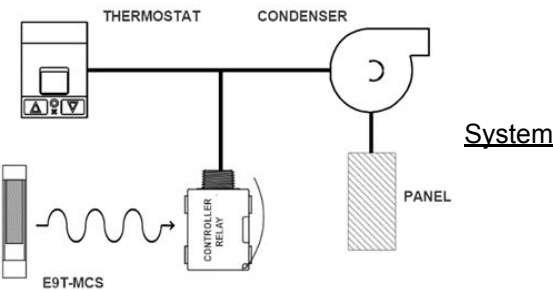
Hotel

Commercial Coolers

Dormitories

HVAC Interlocks

Security



Technical Spec:	E9T-MCS Model
Power Supply	Indoor light energy harvesting (Optional supplemental battery)
Input / Outputs	Integrated solar cell for energy harvesting Magnetic reed switch contact sensor Radio Frequency (RF) Transmitter
Frequency	902 MHz EnOcean transmitter
Transmission Range	50-80 feet ( typical)
Charging Durations	4 min. @ 200 lux (initial, to link) 20 hrs. @ 200 lux (after startup-full charge) 40 hrs. @ 200 lux (cold start-full charge)
Light Req. to sustain operation	50 lux for 30 transmissions/hr. 100 lux for 60 transmissions/hr.
Operating Life in Dark (w/ full charge)	7 days: heartbeat only 3 days @ 10 actuations/ hr. 10 Hrs. @ 100 actuations/ hr.
Addressing	Factory set unique ID ( 1 of 4 billion)
Dimensions	3.11' L x 0.94" W x 0.73" P (w/mntg base)
Certifications	FCC & IC

## Ordering (example: E9T-MCS):

<b>E9T</b>	-	<b>MCS</b>
E9T = EnOcean 902MHz		MCS = Magnetic Contact Sensor

This device or certain aspects thereof is protected by at least one U.S. or International patent or has at least one such patent application pending



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## COMPATIBILITY

Name	Model	Uses
Wireless On/Off Controller	E9X-RUV-3HOTP	5A On/Off controller for light fixtures, pumps, or motors, AC only
Wireless On/Off Area Controller	E9X-RUV-4IBTP	20A On/Off controller for motors, thermostats, or lights (dry contact, AC or DC)
8-Channel Low Voltage Controller	E9R-R04FP-8	8 dry contact relays for HVAC, gates, lighting, etc.

## LINKS

[Product Page](#)



E9X-RUV-3HOTP



E9X-RUV-4IBTP



E9R-R04FP-8



## BID SPECIFICATION -

### SECTION 2.A.5 WIRELESS SENSORS

- A. Basis of Design: E9T-MCS Magnetic Contact Sensor by ILLUMRA. For entry door or window.
1. Standards Compliance: 902 MHz, FCC Part 15.231 and IC RSS- 210.
  2. Mechanical:
    - a. PC and ABS injection molded plastic. Fully enclosed electronics assembly. Color: White
    - b. Button: For manual linking to controllers.
    - c. Mounting: Using screws, peel-and-stick double sided tape.
    - d. Magnetic Contact Switch: Detects open status of window or door.
    - e. Replaceable Battery.
  3. Electrical:
    - a. Radio: 902 MHz EnOcean radios. Other frequencies radios are not acceptable.
    - b. Power Input: Solar Cell and single replaceable coin cell battery.
      - 1) Battery Life: 10 years based on average of 10 operations per day.
    - c. Range: 15-60 ft (5-20 m).
  4. Functional:
    - a. Link to compatible controller:
      - 1) As room occupancy state latch
      - 2) For purpose of switching lighting
      - 3) For miscellaneous electrical load control (ex: HVAC on/off).
    - c. Magnet Placement Test: Visual indication of switch state (LED blinks) verifying magnet placement engaged with sensor.
    - d. Event Which Triggers a Message: On each open or close event.