

Wireless Window or Door Switch

MC-17



energy conservation - home and office

Overview

To provide effective climate control or to monitor an entry way, control systems need a window and door switch that is easy to install without the burden of pulling wires through frames and walls.

The MC-17 is a versatile switch that can be used to turn on or off any electrical equipment. Lighting can be activated to illuminate a room when an entry door is opened or air-conditioning and heating equipment can be placed into economy mode if a window is left open.

Echoflex's MC-17 is a solar powered magnetic switch that transmits status of a window or door wirelessly to a receiving controller. It absorbs solar energy from the ambient light; storing enough power to operate without light for a period greater than 24 hours.

All Echoflex products are based on EnOcean wireless technology with features like "peel and stick" installation and easy adaptation to a tenant's changing needs. The radios require very little power allowing ambient energy sources to power the sensors eliminating the maintenance burden of replacing batteries and their disposal. The push of a switch or the light within an office is all that's needed to energize the Echoflex sensor and broadcast the signal.



Features

- ⇒ Battery-free wireless window or door switch
- ⇒ Optional temperature sensor and temperature set point adjustment
- ⇒ No mounting hardware needed → maximum space flexibility
- ⇒ 100m line-of-sight transmission range, interior range typically 30m
- ⇒ operates with no light for over 24 hours
- ⇒ up to 30 sensors per controller
- ⇒ use with sliding or hinged windows and doors

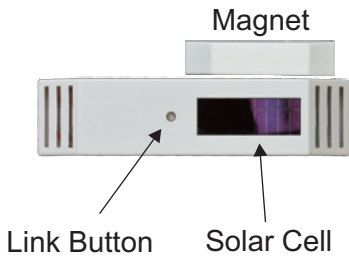
Ordering Information

Model Number	Description	Part Number
MC-17	Window Switch, 868MHz	002-5062
MC-17C	Window Switch, 315MHz	002-0062
MCT-17	Switch with Temperature, 868MHz	002-5098
MCT-17C	Switch with Temperature, 315MHz	002-0098
MCT-17S	Switch w/ Temp & Set Pt, 868MHz	002-5101
MCT-17CS	Switch w/ Temp & Set Pt., 315MHz	002-0101

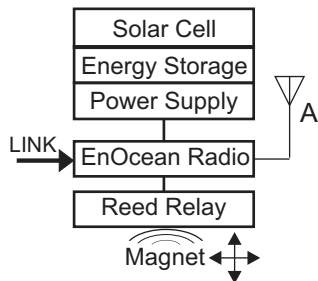


MC-17

Functional Diagram



Block Diagram



EnOcean Equipment Profiles

EEP: 07-30-02, Digital Input Window Contact, single input

With Optional Temperature Sensor and Temperature Set-point

EEP: 07-10-0A, Room Operating Panel 0°C - 40°C Temperature Sensor, Set-point, Window Contact

With Optional Temperature Sensor

EEP: 07-10-0B, Room Operating Panel 0°C - 40°C Temperature Sensor and Window Contact

Technical Specifications

Power Supply	Solar cell
Charging Light Level	40 lux minimum
Charging Period	2 hours minimum - 6 hours full charge
Full Charge Operation	24 hours
Communications	
Radio Type	315 MHZ or 868 MHZ EnOcean radio
Antenna	Integrated whip
Telegram Transmission	On window/door open or close event
Telegram Heartbeat Period	100 seconds minimum ± 20 seconds
Transmission Range	30m (100 ft.) - commercial office space
Inputs	LINK button for assignment to receiver

Mechanical Specifications

Operating Temperature	-13°F to 145°F (-25°C to 65°C)
Relative Humidity	5% to 95% RH (non-condensing)
Weight	1.6 oz. (46 gms.)
Dimensions	4.0" x 0.9" x 0.9" (100 mm x 23 mm x 23 mm)
Mounting	mount with screws or tape (Velcro®), not supplied



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