KEYCARD SWITCH STATION

Overview

The Echoflex Solutions KSS is a keycard switch station that communicates wirelessly with Echoflex load controllers. The low profile and screw-less faceplate gives the KSS a sleek contemporary appearance. The KSS makes it easy to add suite level set-back control of heating, air-conditioning and lighting circuits reducing energy consumption and facility operational costs.

The keycard switch application is most commonly found in the hospitality industry for energy savings of guest suites or rooms. Keycards supplied by the facility to the guest for the suites door lock are inserted into the switch station indicating the suites occupancy state. When the guests leave, they extract their keycard indicating the suites pending vacant state. Linked room control devices can be used to set-back temperature controls or turn lighting circuits off to conserve energy.

With each card insertion, the station provides a slight audible click, a green LED blink, and a "card inserted" transmission is sent to linked devices.

The KSS is powered by a replaceable CR2032 coin cell battery and has an expected lifetime of 100,000 actuations over 10 years. The station will indicate a low battery condition by blinking a red LED once upon any card insertion.

The station supports Range Confirmation® technology providing visual indication of signal strength to a linked Echoflex controller via on-board LEDs.

The KSS stations are designed to fit in a standard wall outlet or mud ring or they can be flush mounted with screws. For installations over line voltage boxes, a barrier plate kit (separate order item) is available. See Accessory section below for UL approved barrier kits.

Features

- Wall mount wireless low profile keycard switch station with screw-less face plate

- Accepts cards that meet ISO/IEC7810 - ID-1 specifications. Embossed cards are not accepted.

- Card insertion responds with a switch transmission an audible click and LED blink

- Range Confirmation® via tri-color LED indication

- Reliable radio reception range of 24 m (80 ft) - commercial office spaces (typical), up to 100m (330 ft) line of sight

- Ten year operational battery life or 100,000 actuations. Replaceable CR2032 coin cell battery

- Flush mount with screws and anchors (not supplied)

- Can be mounted on low voltage mud rings or to line voltage electrical boxes. UL approved line voltage barrier is available as a separate order item
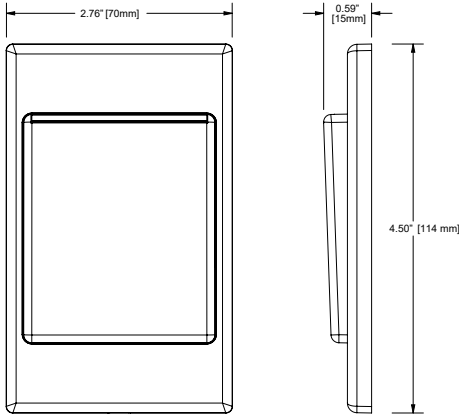
Ordering Information

Description	Model #	PN
Keycard Switch Station - 902 MHz, White	KSS-UW	8188A1140-X-1

Accessories - for mounting on wall outlets (over line voltage)	Model #	PN
Single Barrier Kit, White	PTM365BP1W	8188K1001-5
Double Barrier Kit, White	PTM365BP2W	8188K1002-5

KSS

Dimensional Diagrams

Outer Dimensions

2.76" [70mm]

0.59" [15mm]

4.50" [114 mm]

Mounting Dimensions

3.28" [83 mm]   3.81" [97 mm]
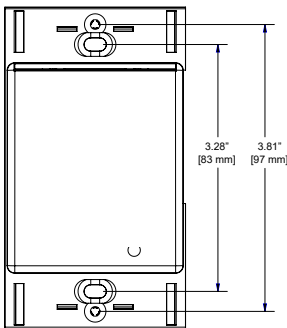
Equipment Profile

| EEP F6-04-01 | Keycard activation switch |

Hardware Specifications

Operating Mode	Card inserted, card extracted
Power Supply	Coin cell - CR2032
Life cycle	Up to 100,000 actuations or 10 years based on 10 card insertion/removal cycles per day *
	* calculation based on a battery with a storage life of 10 years and operation at 25°C
	Note: extensive use of Range Confirmation® may impact battery life
Input	Test button for Range Confirmation® or reset
Outputs	LEDs - green, amber and red (visible through plastic- ambient light may need to be dimmed to view)

Communications

Radio Frequency	902 MHz (U)
Antenna	Integrated whip
Transmission Range	24 m (80 ft) - commercial office spaces (typical), up to 100 m (330 ft) line of sight

Mechanical Specifications

Card Format	ISO/IEC7810 - ID-1 85.60 x 53.98 mm (3.37 x 2.125") thickness 0.76 mm (0.03")
Operating Temperature	-10°C to 45°C (14°F to 113°F)
Relative Humidity	5% to 92% RH (non-condensing)
Weight	42g (1.5oz)
Dimensions	114.0 mm x 70mm x 15 mm (4.50 x 2.76 x 0.59")
Mounting	Mounting hardware not supplied. Flush mount with screws and wall anchors or wall switch junction box/ mud ring
	If mounting on wall outlet, order - UL approved barrier kit - see accessories for order information

Regulatory and Compliance

902 MHz radio	FCC Part 15.231 - Remote Control Transmitter IC RSS-210
RoHS compliant	2011/65/EU

Range Confirmation® is an Echoflex Solutions Inc. Patented Technology | Simple Tap™ is a trademark of Echoflex Solutions, Inc.
Specifications are subject to change without notification