

## Catalog Number • Numéro de Catalogue • Número de Catálogo: HS-100

Country of Origin: Made in China • Pays d'origine: Fabriqué en Chine • País de origen: Hecho en China

## SPECIFICATIONS



Voltage .....	24VDC/24VAC (Class 2)
Current Consumption	
DC .....	Max. 25mA
AC .....	Max. 90mA
Outputs .....	Isolated relay (N.O./N.C.), 1A/30VDC/VAC SPDT
Egress Time Delay .....	30 seconds
Environment .....	Indoor use only
Operating Temperature .....	32° to 104°F (0° to 40°C)
Humidity .....	95% RH, non-condensing
Card Slot accepts standard size hotel card keys with dimensions	
.....	2.125"W x 3.375"H x 0.034"D
.....	(53.975mm x 85.725mm x 0.8636mm)
Tools Needed	
Insulated Screwdriver	
Wire Strippers	

## DESCRIPTION AND OPERATION

The HS-100 is a low voltage card key switch that enables or disables power to electric circuits and loads in a hotel guest room or similar site. When a hotel door entry card key (or the key fob HS-FOB) is inserted in the HS-100 card slot the controlled circuits are energized. When the hotel door entry card key (or HS-FOB) is removed, the controlled circuits will remain energized for 30 seconds more to allow safe egress from the hotel room. After this time delay elapses, they will be de-energized. To restore power to the room (that is, to the controlled circuits and loads), the occupant will need to reinsert the hotel door entry card key into the HS-100 card slot.

### Lighted Card Slot

To help you locate the HS-100 in a dark room, two green LEDs illuminate the card slot where the hotel door entry card key or the key fob HS-FOB should be inserted. When the card or HS-FOB is in the slot, the green LEDs are **OFF**.

## INSTALLATION AND WIRING

1. Make sure the insulation is stripped off the wires to expose their copper cores to the length indicated by the "Strip Gauge" shown in Figure 1 (approx. 3/8").
2. Insert wires into the terminals on the HS-100 as indicated in these instructions for either power pack wiring (Figure 2) or building control system wiring (Figure 3). Make sure they are securely clamped.
3. Mount the HS-100 in the wall box with the mounting screws provided.
4. Attach the cover plate then turn the power **ON**.

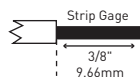
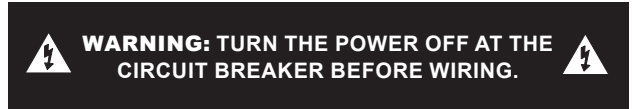
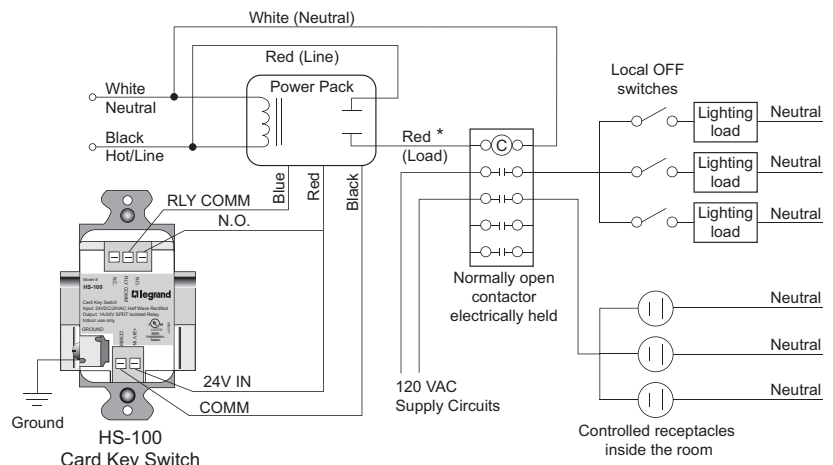


Figure 1: Strip Gauge



### Power Pack Wiring:

1. Install the power pack according to its instructions.
2. Connect the power pack wires:  
**BLUE** wire to isolated relay common (RLY COMM) terminal on the HS-100.  
**RED** wire (+24VDC) to the normally open relay (N.O.) terminal and to the +24V IN terminal on the HS-100. Building Control System Wiring:



Do not wire receptacles directly to HS-100; device is not rated to control receptacles.  
 \* Do not exceed the power pack's maximum load rating.

Figure 2: Wiring to power pack

## Building Control System Wiring:

The HS-100's Isolated Relay allows integration with a lighting control panel, a building automation system (BAS), an energy management system (EMS), or any other building control system that accepts a dry contact closure as an input signal. Connect the wires coming from the building control system as follows:

- +24VDC or +24VAC Class 2 supply to the +24V IN terminal on the HS-100.
- Supply common to COMM terminal on the HS-100.
- Wire the Isolated Relay according to the building control system requirements. The isolated relay is rated for 1A @ 30VAC/VDC:
  - ▶ Normally Closed (N.C.) - Open when card key is in card slot.
  - ▶ Normally Open (N.O.) - Closed when card key is in card slot.
  - ▶ Isolated Relay Common (RLY COMM) must be used for proper operation.

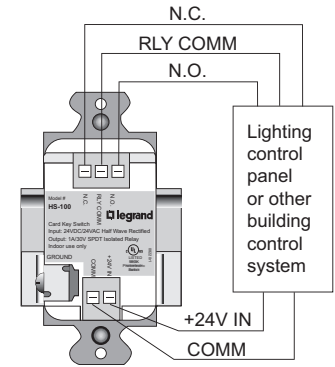


Figure 3: Class 2 wiring to building control system

## TROUBLESHOOTING

**Lighted card slot is OFF; no response from controlled loads in the guest room when card is inserted in slot.**

- Make sure the circuit breaker that feeds the controlled guest room loads is on and functioning.
- If the guest room loads are still not energized, turn power **OFF** and verify that the HS-100 is wired correctly and that all wires are tightly secured inside the wiring terminals.
- If loads still do not respond properly after following troubleshooting, turn **OFF** power to the circuit and call Technical Support at 1.800.879.8585.

**Lighted card slot is ON; no response from controlled loads in the guest room when card is inserted in slot or removed from it.**

- If using a power pack, a direct connection between the Red (+24VDC) and the Blue thin wires on the power pack should close the power pack's relay and the controlled loads in the guest room should be energized.
- Turn power **OFF**, make this test connection and turn power back **ON**. The controlled loads should be energized.
- If they are, turn power **OFF** and correctly rewire the HS-100, making sure that all wires are tightly secured inside the wiring terminals.

If the controlled loads do not energize using the test connection, call Technical Support.

## ORDERING INFORMATION

Catalog Number	Description
HS-100-W	Low Voltage Card Key Switch; 24VDC/VAC
HS-150-W	Line Voltage Card Key Switch; 120/277VAC, 50/60Hz
HS-FOB-W*	Key Fob accessory for use when room access uses a standard key entry or other system without standard size hotel card key
HS-WP-W**	Cover plate for single-gang box
HS-WPR-W	Cover plate for triple-gang box with decorator switch option (card slot on the right)
HS-WPL-W	Cover plate for triple-gang box with decorator switch option (card slot on the left)

Hotel Card Key Switches, Key Fobs and Cover Plates are available in White

\* Not needed when hotel uses card key entry system.

\*\* One HS-WP-W included with each switch.

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