

# KCS-RFID-BK

## RFID Key Card Switch



Model number:	<b>KCS-RFID-BK</b>
Mounting:	Flush-mounted installation (EU standard Ø60 mm wall box)
Packaging:	1 Pack = 1 device

## General description

LH-QD-301KCS-RFID-BK circuits such as lighting, sockets, and HVAC systems.

It is typically used as part of a GRMS (Guest Room Management System) to implement energy-saving strategies and automate room status detection. The device is adapted for EU installation standard (round Ø60 mm wall box).

## Features

- **RFID card detection** - detects presence of guest via RFID card insertion.
- **Integrated relay output** - controls room power supply.
- **Energy saving functionality** - automatically switches off power when card is removed.
- **Wide voltage support** - compatible with 110-240V AC systems.
- **LED status indication** - visual feedback of operation state.
- **EU mounting standard (Ø60 mm)** - compatible with standard European round wall boxes.
- **Waterproof front panel** - suitable for hotel environments.
- **Simple installation** - flush mounting.

## Specifications

Type:	RFID Key Card Switch (Energy Saver)
Model:	LH-QD-301

Power supply:	AC 110–240 V
Frequency:	50/60 Hz
RFID frequency:	13.56 MHz
Card type:	MIFARE / compatible RFID cards
Output type:	Relay output
Max load:	up to 30–40 A
Protection class:	IP44–IP55
Material:	ABS / PC
Color:	Black
Installation:	EU round wall box (Ø60 mm)
Operating temperature:	0 to +50 °C

## Integration Notes

### Power control:

- Device switches room power via internal relay or external contactor.

### GRMS integration:

- Can be used as presence signal (guest in room).
- Integrated into energy-saving logic (lighting, HVAC, sockets).

### Installation recommendation:

- For higher loads, use external contactor controlled by the switch.

### Card compatibility:

- Requires compatible RFID cards (13.56 MHz standard).

### System behavior:

- Relay activates when card is inserted.
- Relay deactivates after card removal with optional delay.

## Dimensions

Parameter	Value
Front panel	86 × 86 mm
Mounting	Flush (Ø60 mm EU box)
Depth	~35 mm



## Wiring

Category	Purpose
Red	485 communication wire A
Black	485 communication wire B
N	Neutral (AC input)
L-OUT	Switched live output
L-IN	Live input (AC supply)

