

# MAGNETIC DOOR SWITCH - S241

## DESCRIPTION

The S241 Magnetic Door Switch is a normally-open reed switch that is used to monitor the open/closed status of a door. A magnet mounted into the door closes the S241 reed switch contacts when the door is closed and the magnet is brought close to the S241.

## APPLICATION

The S241 is typically used to monitor a guestroom entry door position as part of INNCOM's Energy Management System for hotels. The heart of this system is INNCOM's e4 Smart Digital Thermostat. In typical applications, the S241 reed switch contacts are wired to a low voltage input of the thermostat or to an INNCOM S541 Infrared Door Position Transmitter to provide the thermostat with door position.

When the thermostat receives information of a change in the position of the entry door (open or closed), it considers the event in combination with information from its passive infrared motion sensor to determine whether the room is occupied or unoccupied.

## OPERATION

The location of the contact must enable the switch to detect a door that is resting against the frame but is not latched. Placing the S241 closer to the hinge of the door will provide a "door open" indication with a smaller open angle. The switch and its magnet may also be installed horizontally,

The S241 has a "lip" that protrudes below the frame of the door. The space between the door and the frame must be able to accommodate this lip, which is about 0.06" (1.5 mm) thick.

The S241 is a normally-open reed magnet switch. Electrically, the contacts are closed when the reed switch is in close proximity to a suitable magnet. Two low-voltage conductors are run between the S241 switch location and the particular INNCOM device monitoring the door position.

## FEATURES

- Monitors open/close status of door
- Transfers information to other devices such as HVAC and lighting controls
- Recessed into door and door frame
- Approvals: UL Listed 0508C 64Z3

## SPECIFICATIONS

- Model number S241
- Product Description: 3/4" Diameter Recessed
- Magnetic Contact with 12 - 22 AWG leads
- Gap in Steel: 0.5" (13 mm)
- Maximum Initial Contact Resistance: 0.100 ohms
- Maximum Contact Rating: 10W
- Maximum Switching Voltage: 100 VDC/VAC
- Maximum Switching Current: .500 A
- Approvals: UL Listed 0508C 64Z3

