

INNCOM S541.RF TRANSMITTER & S241 DOOR SWITCHES

Battery powered transmitter and door switches

S541.RF RADIO FREQUENCY TRANSMITTER

The S541.RF, a member of INNCOM's Integrated Room Automation System (IRAS), is a radio frequency (RF) transmitter designed to function as a battery powered door switch transmitter for use in the Layer-1 RF network. It can also be used in conjunction with virtually any "dry con-tact" switch input to transmit closure information to the e4 thermostat. The S541.RF transmitter, reports the status of the guestroom door to the network and communicates with other RF compatible INNCOM devices.

APPLICATIONS The S541.RF is typically used to transmit an input from a magnetic door switch that cannot be easily wired to an e4 thermostat or the room's S5 network. It is ideal for retrofit situations and for transmitting door status from balcony doors or other room openings.

OPERATION The S541.RF is designed to be flush mounted to a wall, ceiling, fixture, or another device and is typically secured with two drywall screws or with double-sided tape for adhesion to a surface.

There is no need for periodic maintenance for S541.RF other than battery change. Typical battery life for the S541.RF is 2 years. When it is time to change the batteries, make sure to use the same type of battery (two AAA Alkaline batteries).

S241 MAGNETIC DOOR SWITCHES

The S241 Magnetic Door Switch is a sensor used to monitor the open and closed status of a door. A magnet mounted into the door connects the S241 reed switch contacts when the door is closed, signaling room occupancy status.

OVERVIEW The INNCOM S241 is used to monitor a guestroom entry door as part of Honeywell's INNCOM standalone energy management system or the Integrated Room Automation System. The heart of this system is one of Honeywell's INNCOM Smart Digital Thermostats.

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.



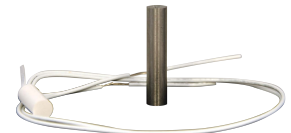
S541.RF Radio Frequency Transmitter



S241 Resessed Door Switch



S241 Door Switch for
Sliders and Balcony Doors



S241 Door Switch
1/4" Dia., Wire leads



Monitors open/close status
of the door

May be integrated with the
INNCOM Room Automation
System over Deep Mesh



RF Wireless via Zigbee
Layer-1 RF



AAA Battery Powered
Low Battery Indicator



Transfers information
to other devices such
as HVAC and lighting
controls

Honeywell

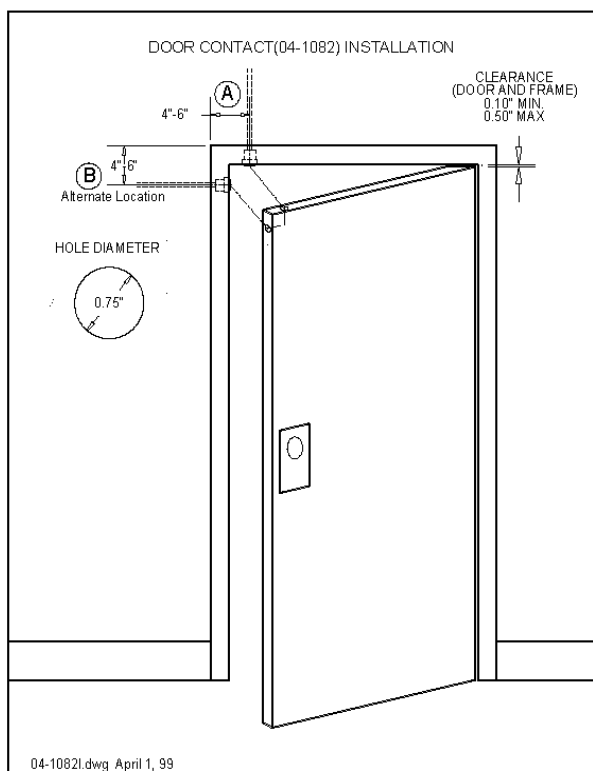
S241 MAGNETIC DOOR SWITCHES

APPLICATION AND INSTALLATION The S241M is a normally open reed magnet switch. Electrically, the contacts are closed when the reed switch is in close proximity to a suitable magnet. The drawing below illustrates the recommended mounting method for the switch in a hotel guestroom environment. The location of the contact was selected so that the switch will detect a door that is resting against the frame but is not latched. Placing the S241M closer to the hinge of the door will provide a "door closed" indication with increasingly open angle.

Note that the S241M has a "lip" that protrudes below the frame of the door. The spacing between the door and the frame must be able to accommodate this lip (which is about 0.060" thick).

The switch and the mating magnet may also be installed horizontally near the top, as show in the drawing as option B.

For installation in a wooden door/frame, the depth of the hole in the frame should be 2 inches and the depth of the hole in the door should be 1 inch.



Model	Description	Part Number
S241	Magnetic Door Switch, Wired - recessed in door 3/4"	04-1095
S241	Magnetic Door Switch, Wired - surface mounted	04-1097
S241	Magnetic Door Switch, 1/4" Dia., Wire leads	04-1097.STB
S541.RF	Wireless Door Switch/Transmitter Switch RF5	201-913-WHP

INNCOM S541.RF TRANSMITTER

Specifications	
MODEL NUMBER	S541.RF
DIMENSIONS	1.25"W x 3.75"H x .562" D (31.75mm W x 95.25mm H x 12.27mm D)
BATTERY LIFE EXPECTANCY	2 years
FREQUENCY	IEEE 802.15.4
TX POWER	0dB typical
RX SENSATIVITY	-90dB
AMBIENT OPERATING TEMP	0-40 degrees C, 0-95% RH non-condensing
APPROVALS	FCC part 15b, CE Mark

INNCOM S241 MAGNETIC DOOR SWITCH

Specifications	
DIMENSIONS	3/4" diameter
MOUNTING	S241 Recessed Door Switch is recessed into door and door frame S241 Balcony and Sliders switch are magnetic contacts with screw terminals
MAX. CURRENT SWITCHING	.500 A
MAX. SWITCHING VOLTAGE	100VDC/VAC
MAX. INIT. CONTACT RESIST.	0.100 ohms
MAGNETIC CONTACT	12-22 lead gap insteel: 0.5" (13mm)
APPROVALS	UL Listed O508C 64Z2

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