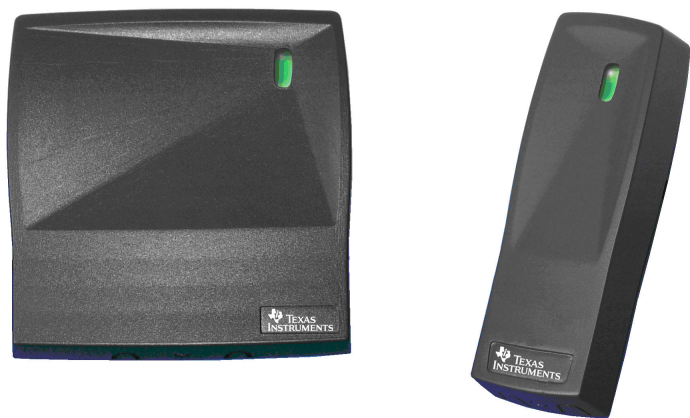


S6410/S6420 Access Control Reader Installation Guide



Specifications

Reader Model	S6410 Wall Plate	S6420 Mullion
Part number	RI-H4R-S6H3-00	RI-H4R-S5H3-00
Operating Frequency	13.56 MHz	
Supported Protocols	ISO/IEC 15693 (Vicinity)	
Supply Voltage	9 - 14 VDC, built-in overvoltage and reverse polarity protection	
Power Consumption	90 mA Quiescent, 200 mA Read, 300 mA Max	
RS-485 Baud Rates	9600, 19200, 38400 (Default)	
Communication Interface	Wiegand 26-64 bit and RS-485 protocol	
Data Signal Integrity	500 feet Wiegand, 4000 feet RS-485	
Data Output Format	DES Encryption Mode (Cyber Text), Wiegand UID Mode, Wiegand ASCII mode	
Operating Temperature	-20°C to +70°C	
Storage Temperature	-40°C to +85°C	
Humidity	90% RH at 70°C	
Protection Class	IP64, Potted	
Regulatory Approvals	FCC, R&TTE (CE), UL-94 and UL-294 (ETL)	
Overall Dimensions	5.0" x 5.0" x 1.0" (12.7 x 12.7 x 2.5 cm)	5.0" x 1.7" x 1.0" (12.7 x 4.3 x 2.5 cm)
Weight	~8.5 oz (~241 g)	~4.8 oz (~136 g)

Complete warranty information can be found on the website at:

www.ti-rfid.com

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11-06-21-713 09/02

Packing List

This package includes:

Qty.	Description
1	S6410 or S6420 Reader with back plate
2	#6 Phillips-head machine mounting screws
2	#6 Phillips-head self-tapping mounting screws
1	Phillips-head cover screw
1	Security-head cover screw
1	Installation guide (this sheet)

If any items are missing from the package, please contact the appropriate technical support agent:

USA	1-888-937-6536 or 1 (972)-575-4364
Belgium (English)	+32 (0)2 7455455
France (English)	+33 4 93 22 22 00
Germany	+49 (0)8161 80 2200
Italy	+39 (0)39 6568 210
Netherlands (English)	+31 (0)546 879 222
Spain	+34 902 19 73 96
Sweden (English)	+46 (0)8 58755527
UK	+44 (0)1604 88 4088

or visit us at: www.ti-rfid.com

Before You Begin

Determine the installation method, which parts are needed, and which wires will be used. These instructions assume that the unit is being installed on an unprepared flat surface. If this unit is to be installed in an electrical box or door mullion opening, skip to step 3 of the installation instructions.

Typical Installation

1. Use appropriate template (from back) to mark hole locations for wire and screws. A set of self-tapping screws is included, however the holes may be pre-drilled if desired.
2. Drill a 3/4" (20 mm) maximum diameter hole for wire to pass through. Placement of this hole is arbitrary, but it must align with the opening of the back plate.
3. Slide wiring cable through mounting plate prior to connecting wires. Be sure the flat side of the plate is toward the wall.
4. Connect wires per the wire guide. Cap any unused wires to prevent shorting.
5. Screw mounting plate onto surface using the appropriate screws provided.
6. Attach the housing to the mounting plate by inserting the upper tab(s) of the housing into the slots in the plate.
7. Secure the front housing using either the included security-head cover screw or the Phillips-head cover screw.
8. Test unit for proper functionality. This can be accomplished by bringing a card into the read field with power applied to the reader. The LED's and audio should function as desired. Note that this test can only be performed when the unit is in it's default (Wiegand) mode as shipped.

Determining Which Wires Will Be Used

The following wire connections are essential for proper functionality in RS-485 or Wiegand mode.

Wiegand Mode	
Black	Ground
Red	Power
Green	Data (0)
White	Data (1)

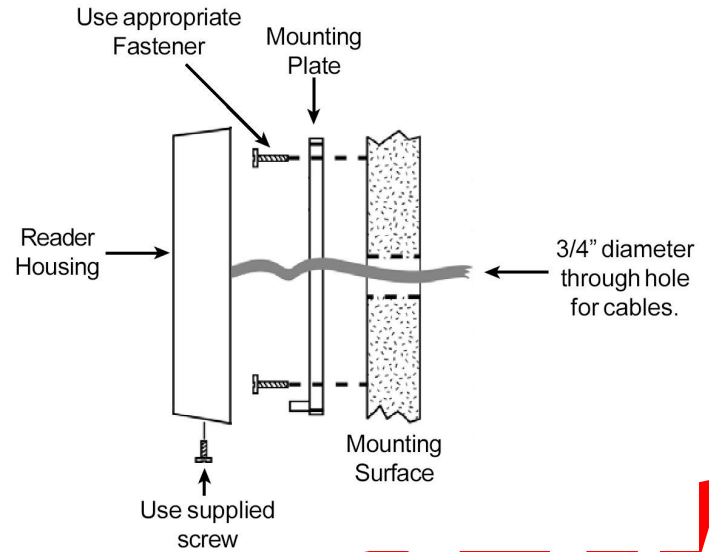
RS-485 Mode	
Black	Ground
Red	Power
Gray	Data (A or -)
Violet	Data (B or +)

The remaining wires may be connected as desired to customize functionality of the audio and LED indicators. See the S6400 User's Guide (11-06-21-711) for more information regarding the use of these wires.

Complete Wire Guide

Color	Function
Black	Ground (GND)
Red	Power (9-14 VDC)
Gray	RS-485(A or -)
Violet	RS-485(B or +)
Green	Wiegand Data(0)
White	Wiegand Data(1)
Brown	Red LED
Orange	Green LED
Yellow	Audio
Blue	Hold

Mounting



Note: Optimum read range can be achieved by pushing excess wire through opening in wall. Wire accumulated inside reader housing may cause read range to diminish.

