INSTALLATION GUIDE

Saflok SR™ Series RFID (RCU/ECU)

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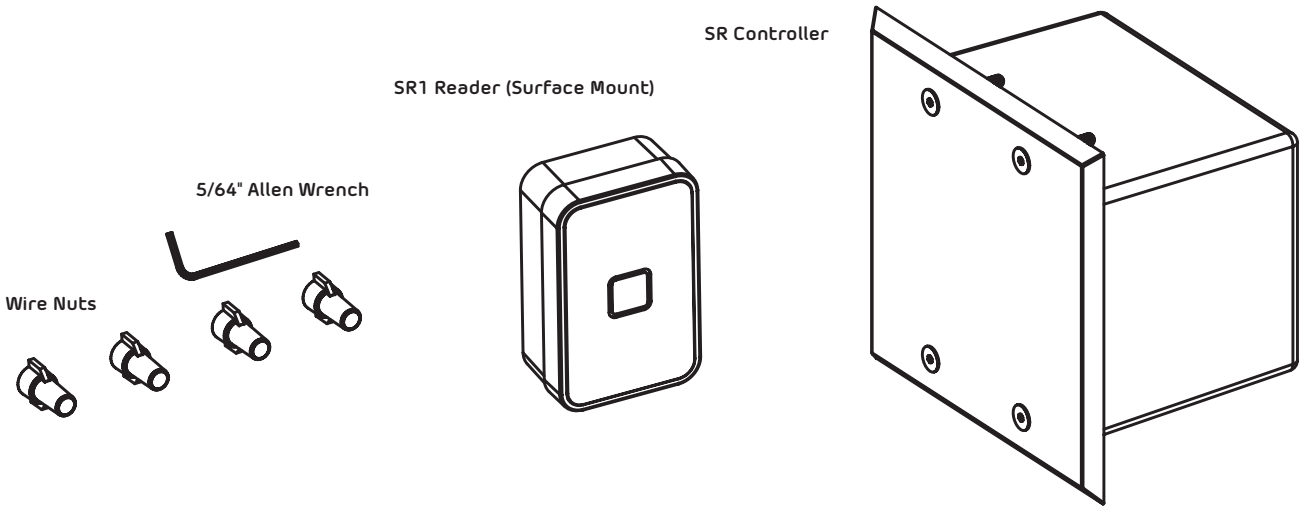
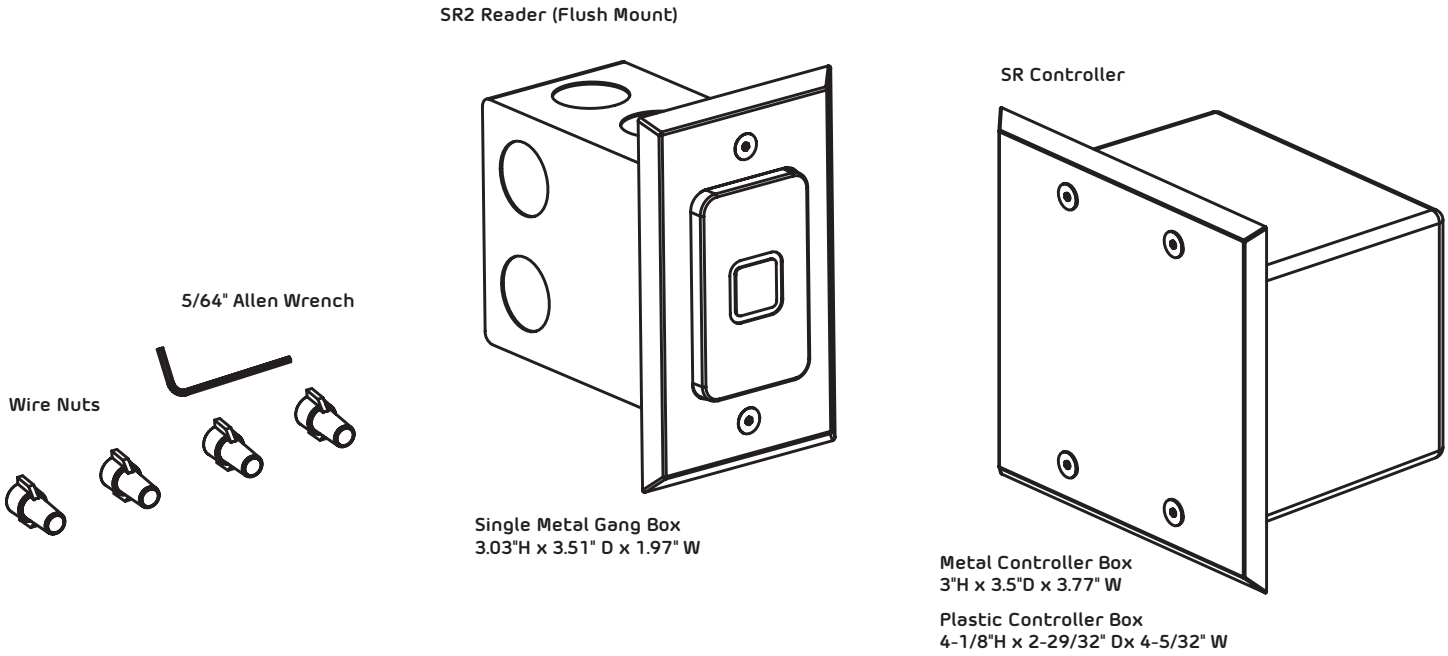
SR1 Reader and Controller Box

Ideal for Surface mount or mounting on aluminum door frame.



SR2 Reader and Controller Box

Intended for flush mount



Please check to make sure all parts are accounted for before beginning installation. Do not substitute any of the parts. The use of substitute parts will result in poor performance of the lock.

1- Pre-installation Requirements

The SR RFID remote control unit (RCU) controls access to electric strikes, electric exit devices, electromagnetic locks, and parking gates. Positioning the keycard over the reader will momentarily switch power to the electrified locking device.

Pre-installation Requirement

Be sure to investigate the switching current and voltages required by the electric access control hardware. The SR RFID RCU is equipped with a relay that can be configured either "normally open" or "normally closed," to function properly with the hardware application. The relay is rated for 5 amps at 250 VAC or 5 amps at 30 VDC. Review your local fire and electrical codes before installing this product.

Power: (Not Supplied)
A Low voltage power source of 12 to 24 volts with a minimum current of 125 mA AC or DC is required but not included with the RCU.
Important *(DO NOT EXCEED 24 VOLTS)*

Mounting Considerations: ?
Reader position (acordance with ADA requirements?)

Controller position (on the locked side of the entry. Convieient location for wiring. Secure location from vandalizsm?)

Wire specification / routing

RCU electrical configuration:
The RCU is equipped with a Dry Contact Relay that can be configured either Normally Open (NO) or Normally Closed (NC).

The relay is rated for five Amps at 250VAC or 5 AMPS at 30VDC. Typically the NO set of contacts are used so that the ECU will work like the elevator call button to complete the circuit to call the elevator to the specific floor.

Important *Review your local Fire, Electrical and Building Codes before installing this product. Be sure to investigate the switching current and voltages present at the existing elevator buttons and determine if the RCU relay contact rating and configuration will be adequate.*

The installer must be capable and knowledgeable of the electric access control system. There are many variations of electric access control systems and local codes; for this reason, the RCU must be installed by a qualified installer.

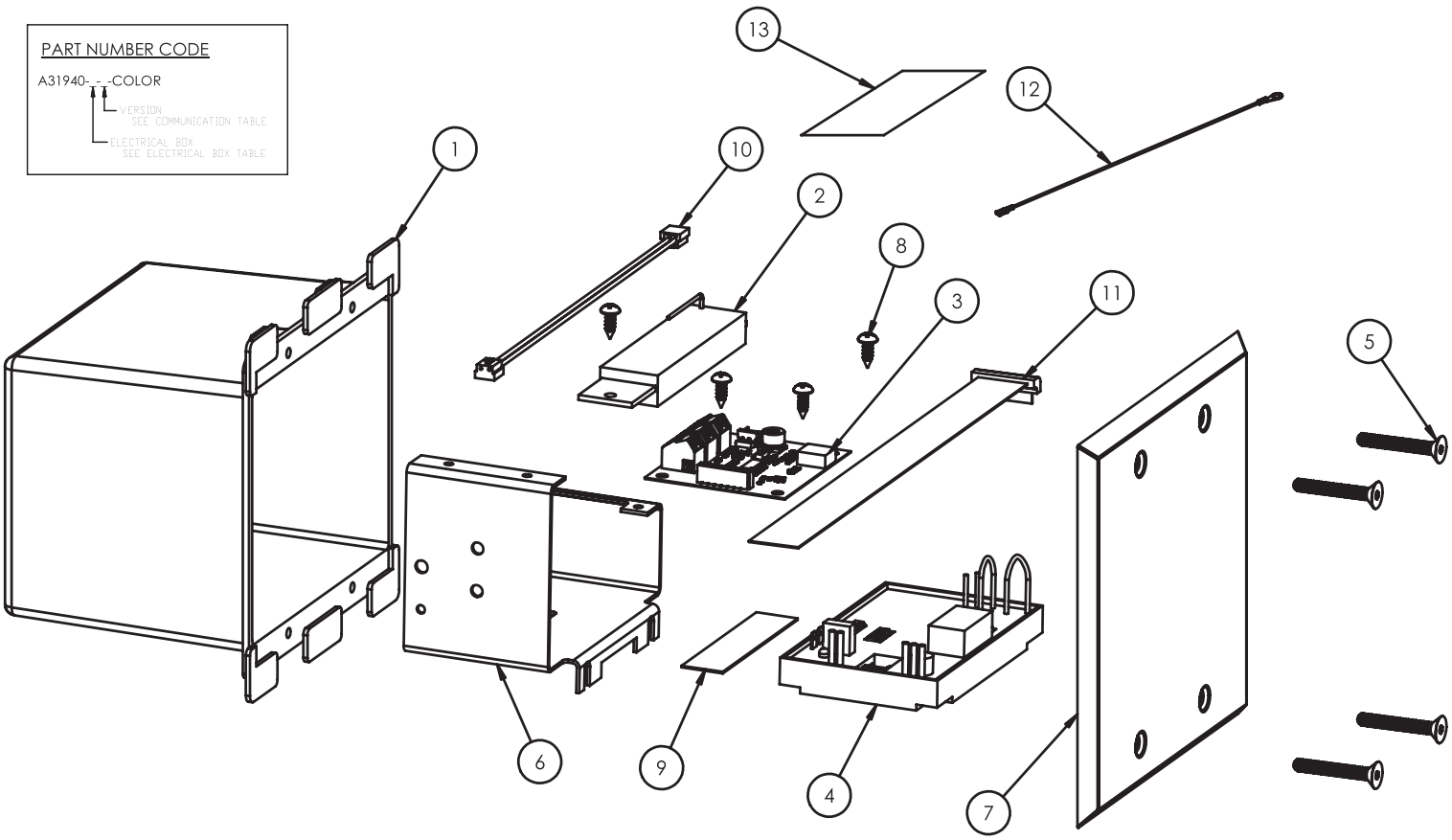
Messenger™ Option

For RCU units equipped with the Messenger transceiver module, the faceplate and electrical enclosure of the SR controller must be plastic to ensure optimum transmissions of the RF access communications to a nearby Messenger hub (for Messenger applications, SR RFID RCU faceplates are available in white, ivory, or dark brown plastic.) If the RCU location has not been previously confirmed for connectivity to the Messenger network, consult the Messenger Site Survey Instructions. In some cases an additional hub may be required to ensure connectivity in new locations.

Programming

Program the RCU/ECU by using the propertys hand held programmer. Connect the USB probe to the USB port located on the serial interface board located in the controller box.

Controller BOM



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	SEE TABLE	ELECTRICAL BOX	1
2	SEE TABLE	PCB ASSY, RF TRANSCEIVER	1
3	124-514512-001	PCB ASSY, SERIAL INTERFACE, SR READER	1
4	A38730-RMGC	PCB ASSY, MT4 RCU/ECU	1
5	50170-COLOR	SCREW, #6-32 X 1, FHSS	4
6	A32200	BRACKET, SR CONTROLLER	1
7	A2275B-FINISH	PLATE, ECU/RCU, QO AND CAC	1
8	A27030	SCREW, M2.9-1 X 8	4
9	A27016	TAPE, ADHESIVE	1
10	A3060B	WIRE HARNESS, 2 PIN AMP - 2 PIN AMP, 5"	1
11	A28060	FLEX CIRCUIT ASSY, QUANTUM PROX	1
12	A28360	HARNESS, RCU GROUND	1
13	SEE TABLE	LABEL, FCC ENCLOSURE	1

COMMUNICATION TABLE			
COMMUNICATION CODE	TRANSCEIVER P/N	FCC LABEL	DESCRIPTION
0	NONE	NONE	NON MESSENGER
A	A28780-XMZ	A27540	ZIGBEE NORTH AMERICA 150mW
B	A28780-EAZ	A27540	ZIGBEE EUROPE/ASIA 10mW
C	A28780-IMZ	A27540	ZIGBEE INTERNATIONAL 84Mw
D	A28990-B	A27640	INNCOM BI-DIRECTIONAL
E	A28780-CZN	A27540	ZIGBEE CRESTRON
F	A28780-XMZ	A27540	TELKONET

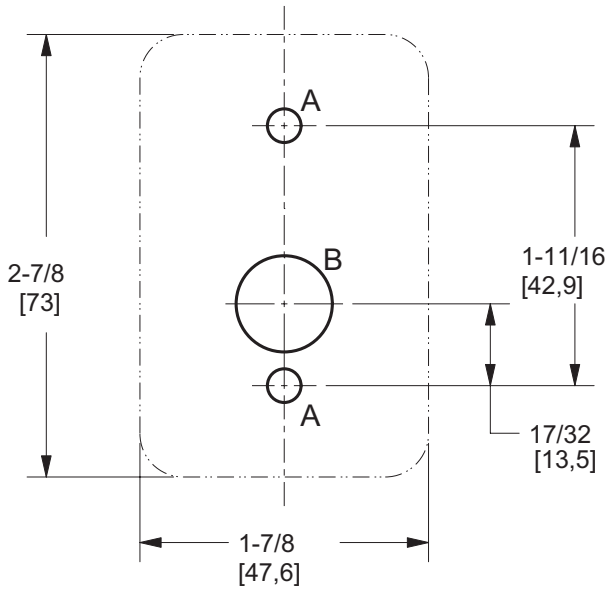
ELECTRICAL BOX TABLE		
BOX CODE	DESCRIPTION	BOX P/N
1	PLASTIC FLUSH	A23920
2	METAL FLUSH	94850
3	NO BOX - NO FACEPLATE	NONE
4	PLASTIC SURFACE	94870
5	METAL SURFACE	A39060-1

2- Installing the Saflok SR RFID RCU

Note: The SR RFID RCU Controller is optionally provided with a plastic double-gang deep switch box intended for interior installations. Please check your local building codes before installing.

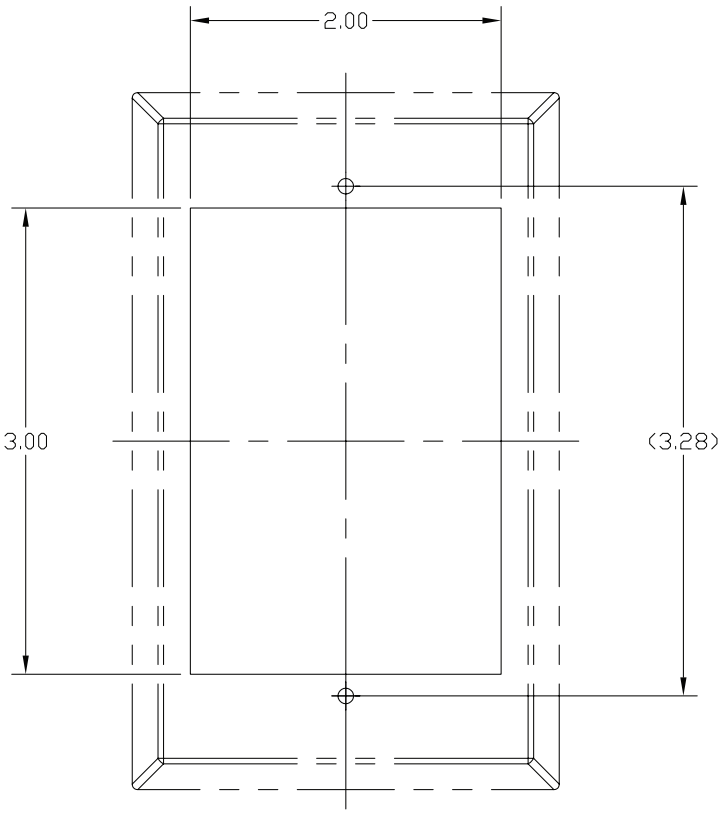
1. Position the reader box in an accessible location on the locked side. The box should be in close proximity to the access opening as the user will have five seconds to open the door before it relocks. For exterior applications the surface mount sealed SR1 unit shall be used. Use the drilling template below to prepare the wall or metal door frame for attaching the SR1 back plate.
2. Position the controller box on the opposite side of the wall within 15 meters of the reader.
3. Run the appropriate wires to the controller enclosure and SR reader enclosure in accordance with the schematic diagram on the following page. For connecting the reader to the controller 3 twisted pair x 22 AWG CMP cable is recommended (Belden 6542FE, or equivalent). Ensure compliance with local building codes.
4. Make the necessary wire connections in accordance with the schematic diagram on the following page.
5. Secure the faceplate to the controller box with the four #6-32 x 1" screws (provided). For the SR2 flush mount reader, secure the faceplate to the reader box with the two #6-32 x 1" screws (provided). Tighten the screws using the 5/64" Allen wrench (provided). For the SR1 surface mount, hang the reader housing on the back plate clip, swing down into position, and fasten with #8-32 screw (provided) through hole in bottom of case.
6. Program the RCU/ECU by using the propertys hand held programmer. Connect the USB probe to the USB port located on the serial interface board located in the controller box.

SR1 Surface Mount installation



HOLE ID	DIM		COMMENTS INCH[mm]
	INCH	[mm]	
A	INSTALLATION WITH DRYWALL INSERT		
	∅ 7/32	∅ 5,6	↧ 1-1/2 [38,1]
	INSTALLATION WITH METAL SCREW		
	∅ 9/64	∅ 3,6	↧ 1/2 [12,7]
B	∅ 5/8	∅ 15.9	-

SR2 Flush Mount installation



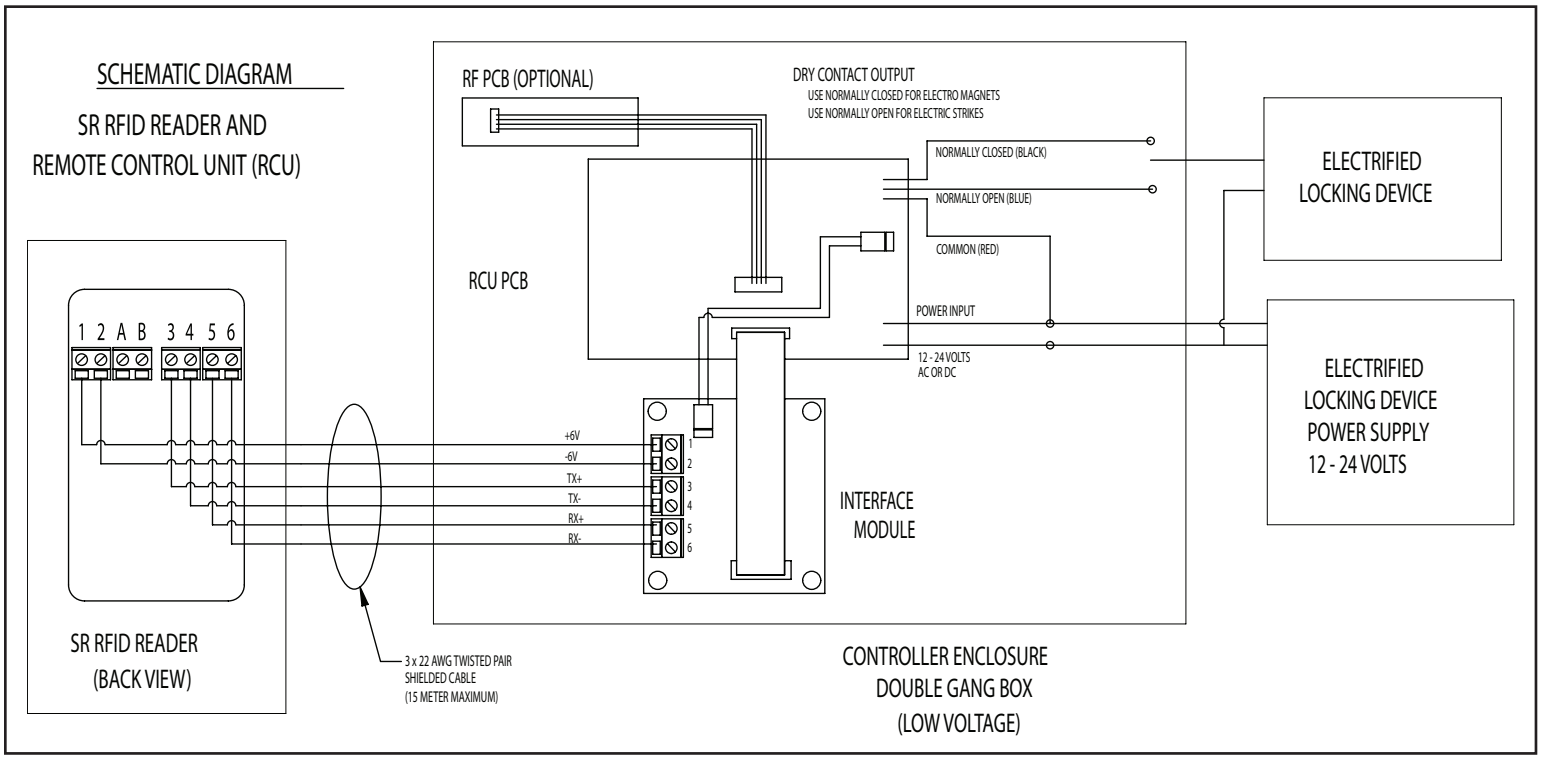
3- Schematic Diagram

Power Leads
The SR RFID RCU requires 12-24 volts AC or DC input. Two wire leads (white insulation) are provided for supplying power to the controller. Ensure that voltage going to the controller does not exceed 24 volts.

Any 110 VAC power supplies necessary for rectification shall be in separate rated enclosures.

Relay Leads
Three wire leads (red, black, and blue) are provided for switching power to the electrified locking device attached to the gate, door, doorframe, etc.

- The red lead is common. It is always connected.
- The black lead is normally closed (NC). It is used for electric lock devices like electromagnets.
- The blue lead is normally open (NO). It is used for electric lock devices like electric strikes.



Regulatory Compliance:

This device complies with Part 15 of the FCC Rules,. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications of this product, not approved by manufacturer will void the user's authority to operate the equipment.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device."

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

FCC ID: SAPMESSENGEREM
IC: 7078A-A28990

Contains transmitter module with FCC # SAPMESSENGER2GHZ and IC # 7078A-A28780

Kaba
Customer Services & Support
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