

INSTALLATION GUIDE

Saflok SR™ Series RFID Concierge



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Introduction

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.

The Saflok SR Concierge lock kit provides flexibility for properties that seek an elegant, unique design for guest rooms and common areas. This solution allows designers to install the SR3 RFID reader behind a third party wall plate, while fitting standard or customized lever sets and privacy thumb turn hardware on the door. This solution removes the requirement for a full bodied lock and RFID reader on the door. The SR Concierge lock can also be ordered with a SR1 or SR2 wall mounted RFID reader.

The SR Concierge lock controls a standard deadbolt door ajar mortise. Mechanical key override option is not available. The SR Concierge supports the Messenger On-line system (optional) and can also integrate with third party solutions.

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Installation Requirements

Important

Review your local Fire, Electrical, and Building codes before installing this product. The installer must be capable and knowledgeable of electrical access control systems. There are many variations of access control systems and local codes; for this reason, the SR RFID Concierge kit must be installed by a qualified installer.

- HH6 firmware revision 1.32 or greater is required.
- MT4 firmware version 11-12-14 or greater is required.

Hardware

The concierge solution requires that all connections to the mortise must be routed through the door. This requires additional hardware (hinge side power transfer) and cabling that is not part of the SR RFID Concierge kit. It is the integrators responsibility to procure all additional hardware, cabling and instructions necessary to complete the job and ensure these components meet any and all local standard or codes.

Power

A power source of 12-24V AC/DC with a minimum current of 125mA is required and not included with the kit. It is the responsibility of the installer to ensure a proper low voltage power source is available to the SR Concierge Controller.

Location

The SR Concierge RFID reader should be located in close proximity to the access opening as the user will have approximately 5 seconds to open the door before it relocks. The SR Concierge controller box must be within 15 meters of reader and mortise.

Messenger

For concierge equipped with the Messenger transceiver module the faceplate and electrical enclosure must be plastic to ensure optimum transmissions of the RF communications to a nearby Messenger hub (SR Concierge controller box faceplates are available in white, ivory, black, or dark brown plastic). If the controller 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 location.

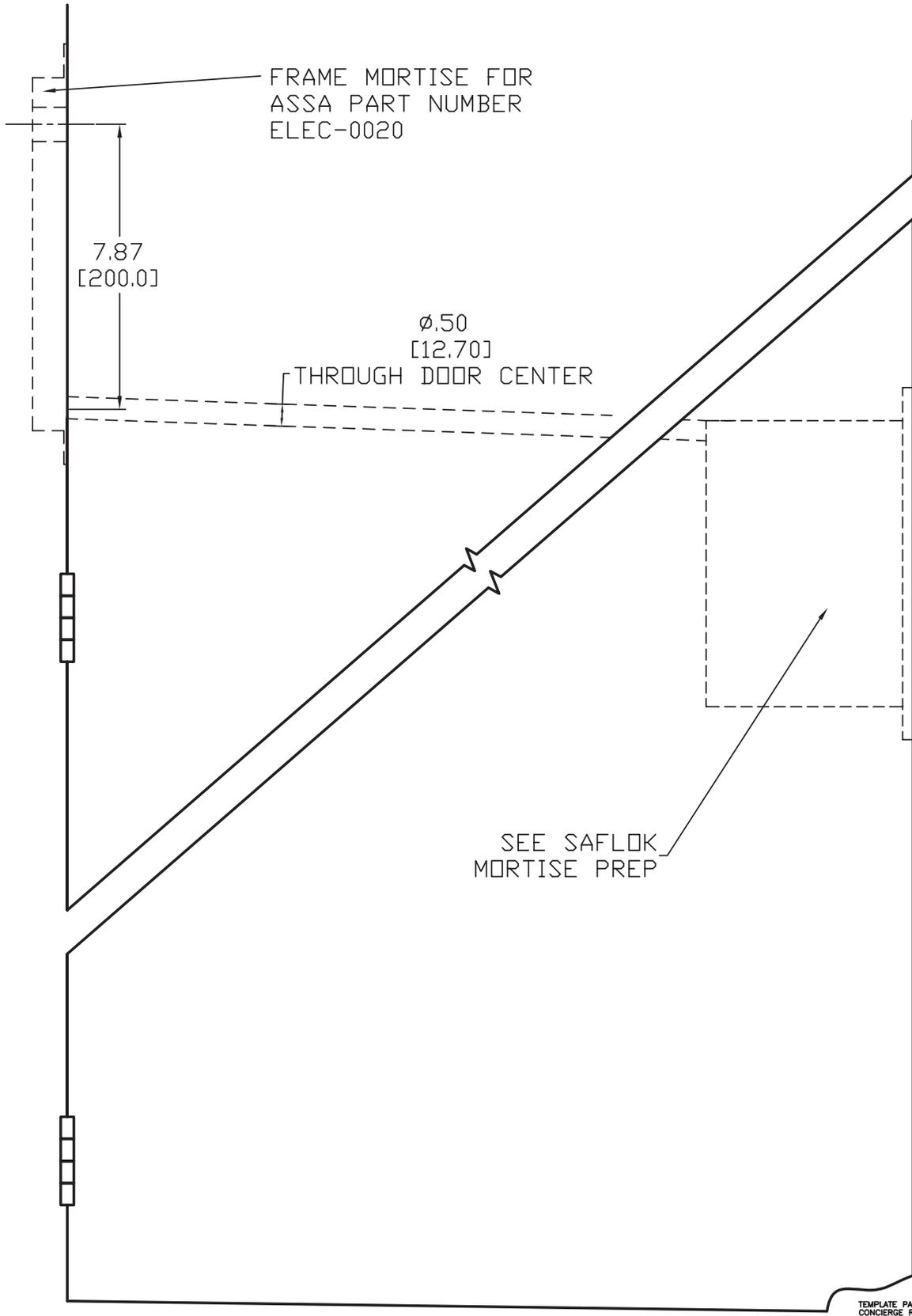
Cable

It is recommended to run the wires from the controller to the SR reader and mortise using 3 twisted pair x 22 AWG CMP cable (Belden 6542FE, or equivalent). Ensure any wire selected is compliant with all local standards and building codes.

Door Preparation

The two following illustrations indicate the required door prep for the mortise and wire routing to the mortise pocket. 1:1 scale installation templates can be provided upon request.

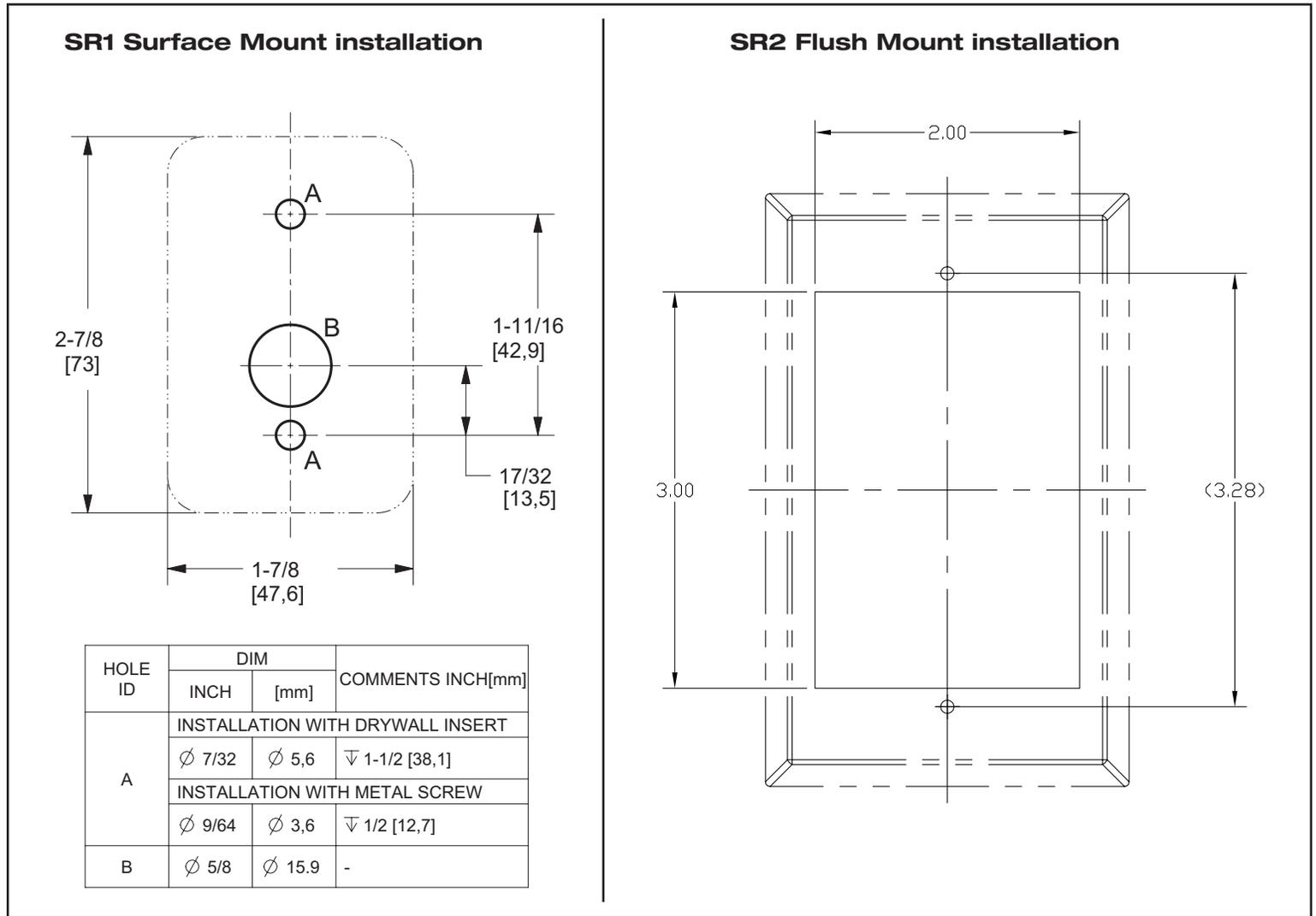
Door Preparation Layout (Part 2)
For Door Frame with Saflok electric mortise lock



TEMPLATE PART NUMBER/FILENAME:
CONCIERGE RFID STD DAJ_08_16_11.DWG

Mounting Preparation

SR1/SR2 mounting preparation dimensions



Controller box mounting prep dimensions

Metal Controller Box

3"H x 3.5"D x 3.77" W

Plastic Controller Box

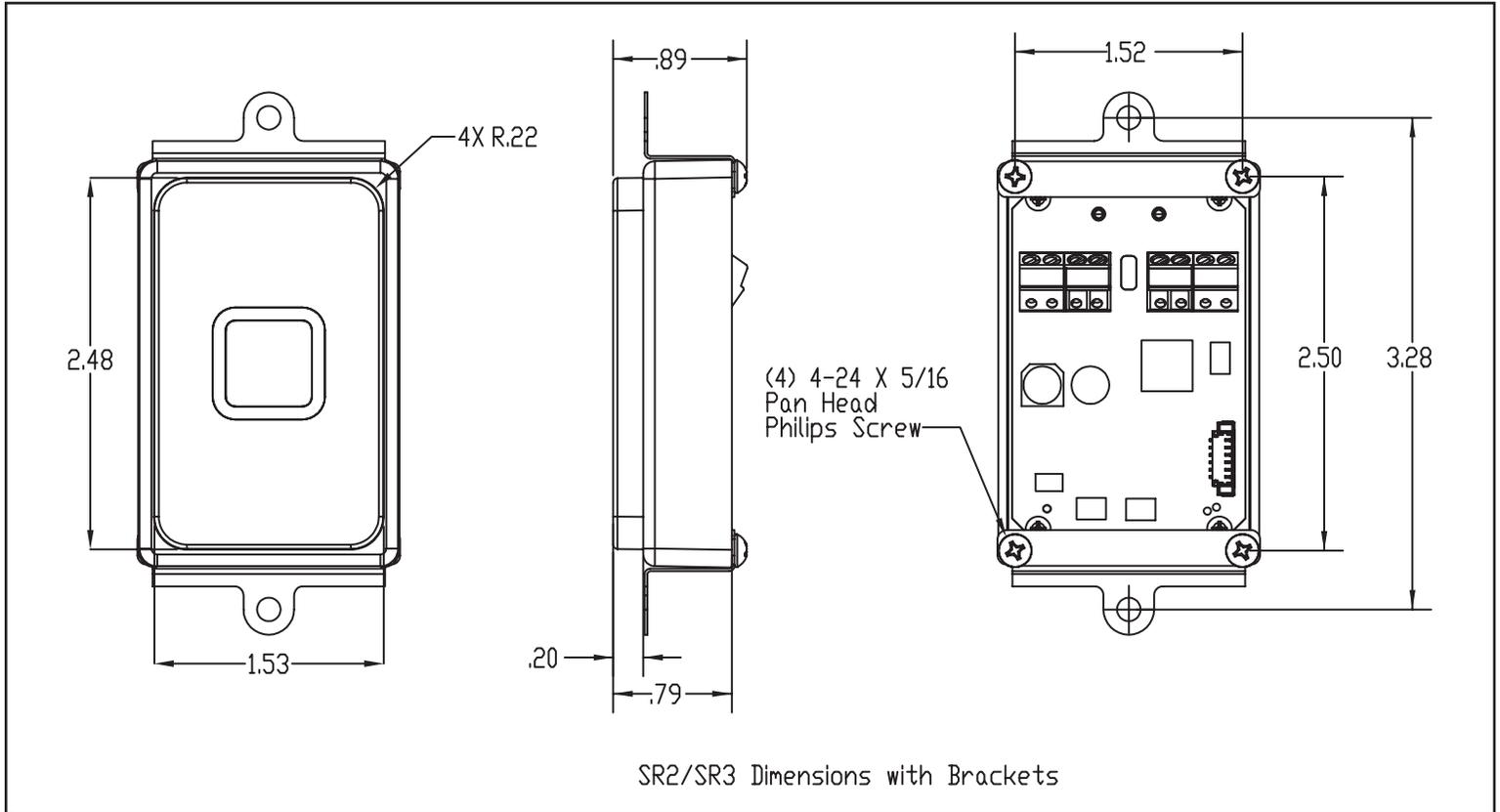
4-1/8"H x 2-29/32" D x 4-5/32" W

SR2 Reader Single Gang Box

3.03"H x 3.51" D x 1.97" W

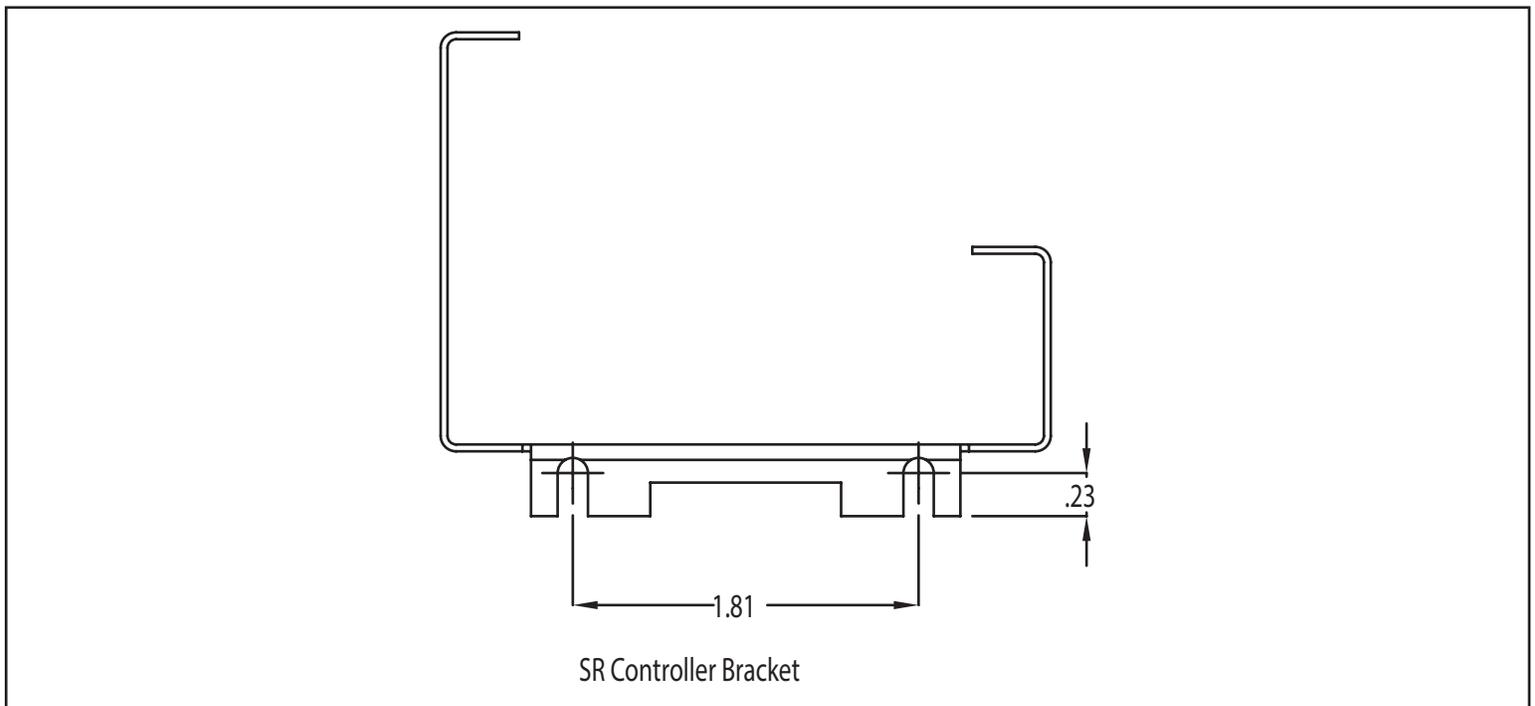
Mounting Preparation

SR2/SR3 - standalone mounting preparation for custom integration applications



No controller box option bracket layout.

Kaba recommends using the controller boxes that are available with the kits. However, there are several holes on the bracket available for custom mounting applications. *It is the integrators responsibility to ensure the proper hardware is procured* to mount the bracket in the desired location and that the bracket is properly secured.



Mounting Preparation

SR2/SR3 - Integration rules

For optimum reading performance the SR1 (surface mount), SR2 (with cover plate and box) and SR3 configurations are recommended. The readers in these configurations are specifically tuned to their configured environment. However, the SR2/SR3 readers can be integrated into custom applications. Successfully integrating the readers into a custom application is the sole responsibility of the integrator.

****Important****

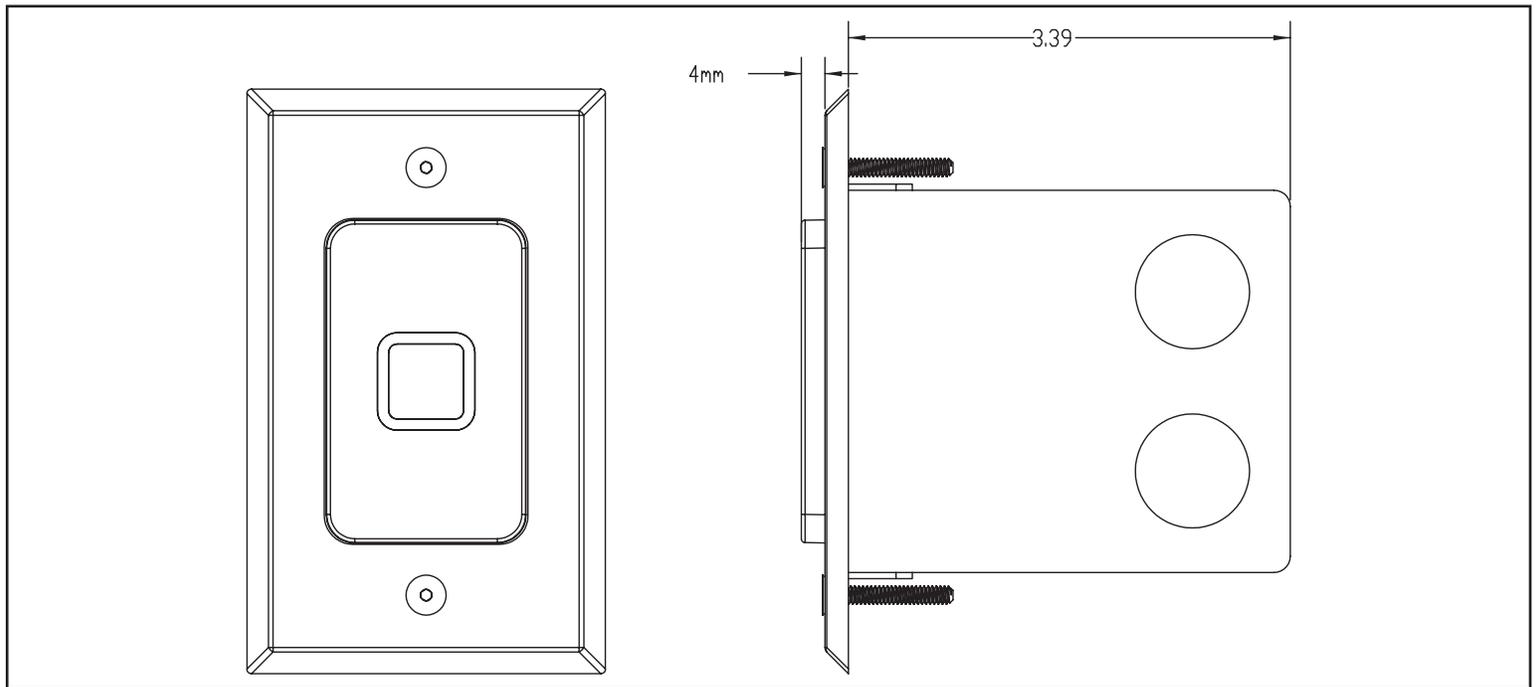
The environment surrounding the reader plays a large roll in reader performance. Elements such as vicinity of other RF devices/electronics, presence of metal and or water, thickness and material of cover plate can drastically impact reader performance.

The following rules are designed to assist integrators in successfully installing the stand alone versions of the SR reader.

The reader face must not be obstructed by any metal material.

The reader face must stand 4mm proud of any metal surrounding the reader.

See SR2 with faceplate as example.



The reader must reside a minimum of 30cm away from any other RFID device.

The presentation point of the end users card to the face of the SR reader must not exceed 6mm.

If using a plastic cover plate ensure it allows (if required) the reader LEDs to pass through. In these applications it is recommended to use the SR3 for greater LED transmission.

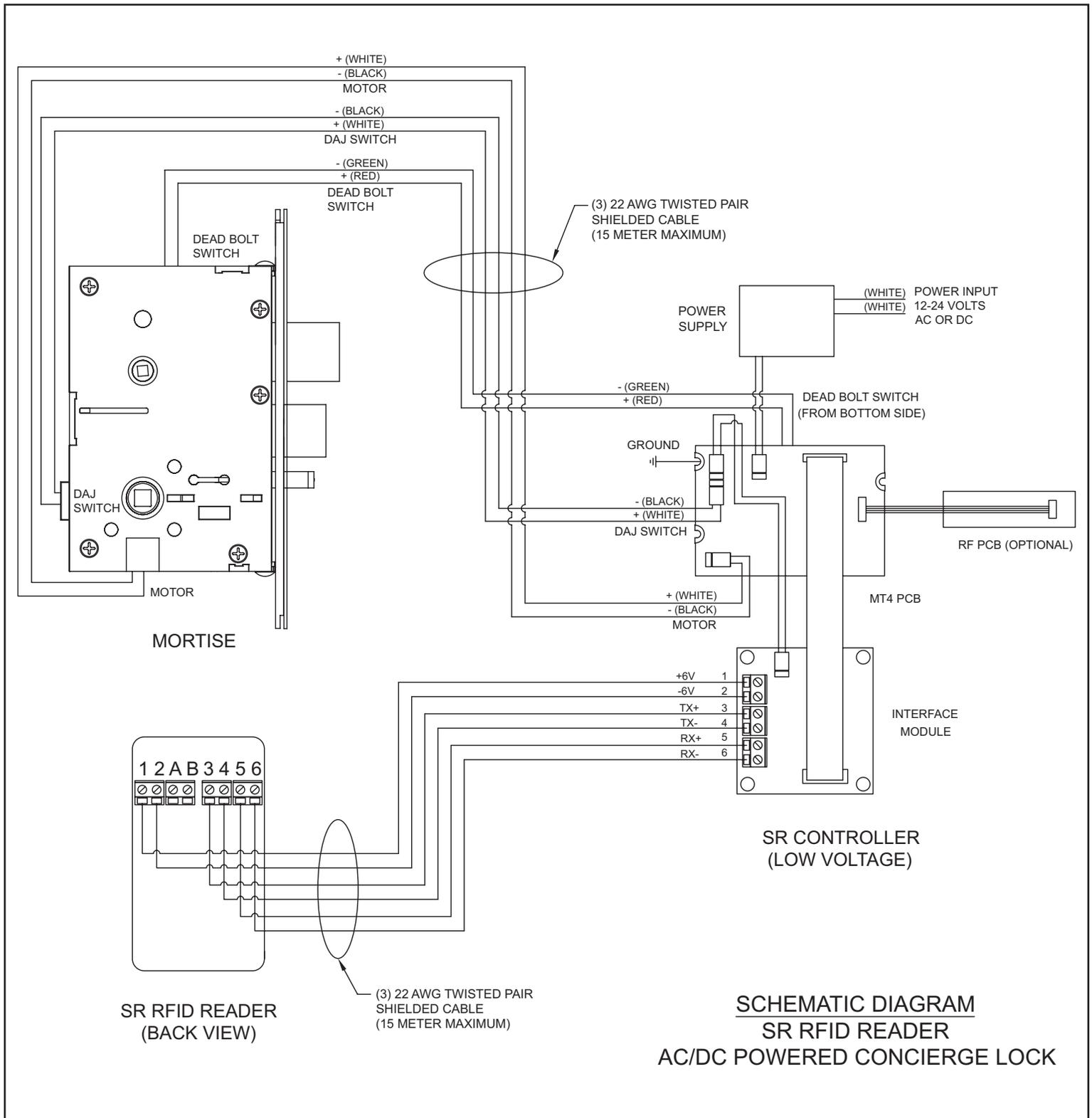
Important Note

If integrating the reader into a custom environment, it is highly recommended to test any solution thoroughly before fully implementing. Testing in the custom environment should include the use of all proposed customer credentials and possible environmental effects. Kaba strongly recommends the use of authentic NXP Mifare credentials with copper/aluminum wire antennas. The use of alternative credentials may significantly impact the reader performance and reliability.

SR Concierge Kit Installation Instructions

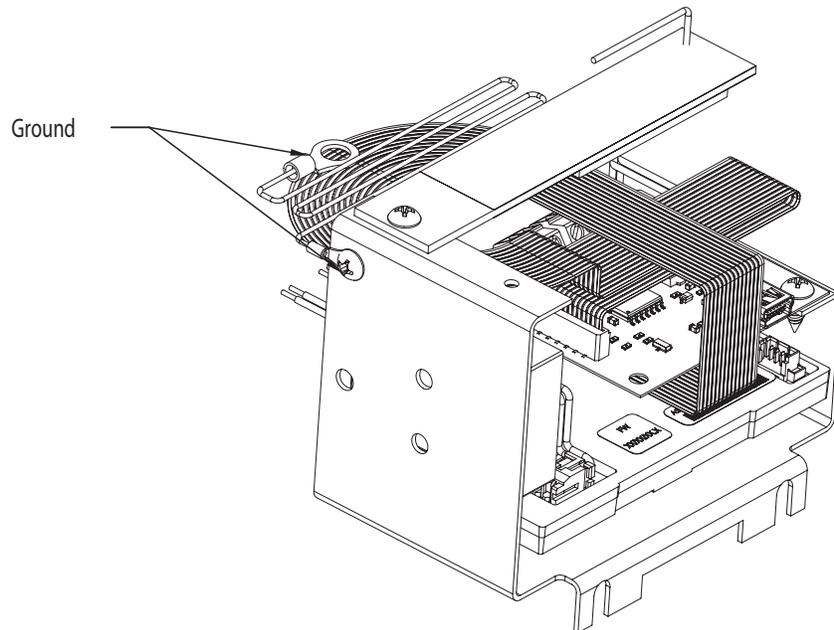
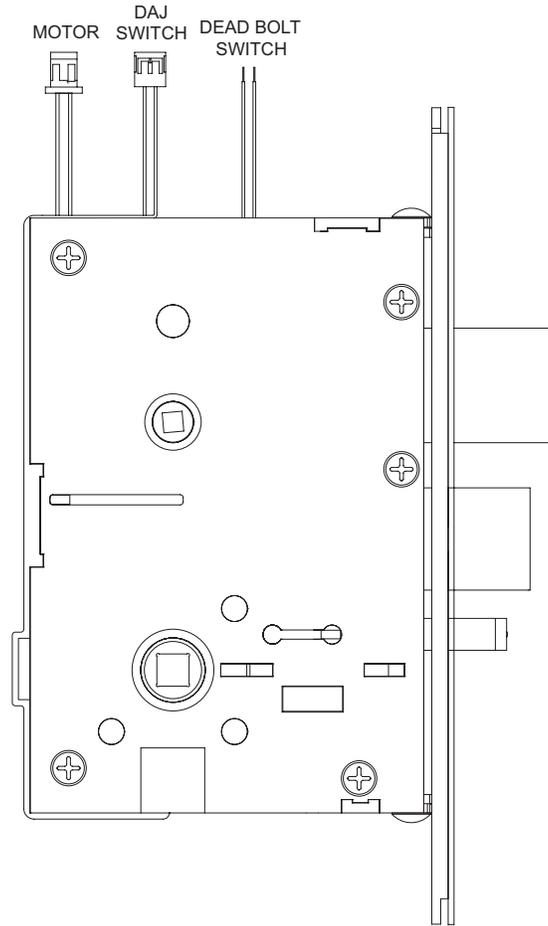
1. Prepare door mortise pocket and wire routing tunnel as previously described. (Pg. 3-5)
2. Install power transfer hardware as outlined by manufacturer instructions.
3. Install any supplied mounting brackets, controller boxes, and assemblies as desired using the installation mounting templates/dimension guidelines outlined previously.
4. Ensure you have the proper low voltage power (12 to 24 AC or DC) in place at the final controller location.
5. Ensure controller bracket is properly grounded (**See SR Controller Internal Parts drawing Pg. 11**) by using the supplied ground wire.
6. Use the schematic provided to run the appropriate wires from the SR reader to the controller using 3 twisted pair x 22 AWG CMP cable (Belden 6542FE or equivalent). Note - each connection on the reader and controller interface board are labeled. Do not exceed 15 meters.
7. Prepare the mortise (**see Mortise Preparation illustration Pg. 11**) for wiring by removing the Motor and DAJ connectors. Strip and label each wire appropriately after removing the connectors.
8. Use the schematic provided on Pg.10 to run the appropriate wires (3 twisted pair x 22 AWG CMP cable, Belden 6542FE, or equivalent) from the controller, through the power transfer hardware, and through the door to the mortise pocket. Do not exceed 15 meters.
9. Connect the wires from the controller to the mortise using the supplied wire nuts.
10. Verify all wiring is correct.
11. Install mortise into door pocket.
12. Connect appropriate power to controller box.
13. Test assembly using a construction key.
14. Program the lock by using the property's hand held programmer (see programming annex Pg. 12).
15. Test assembly using a property key.
16. Secure the faceplate to the controller box (if applicable) with the four #6-32 x 1" screws provided.
17. Secure reader assembly
 - SR1 Surface Mount: Hang the reader housing on the back plate clip, swing down into position, and fasten with the #8-32 screw (provided) through hole in bottom of case.
 - SR2 Flush Mount Reader: Secure the faceplate to the reader box with the two #6-32 x 1" provided.
 - SR3 as required by integrator
18. After all hardware is securely in place retest lock.

Schematic diagram



Annex

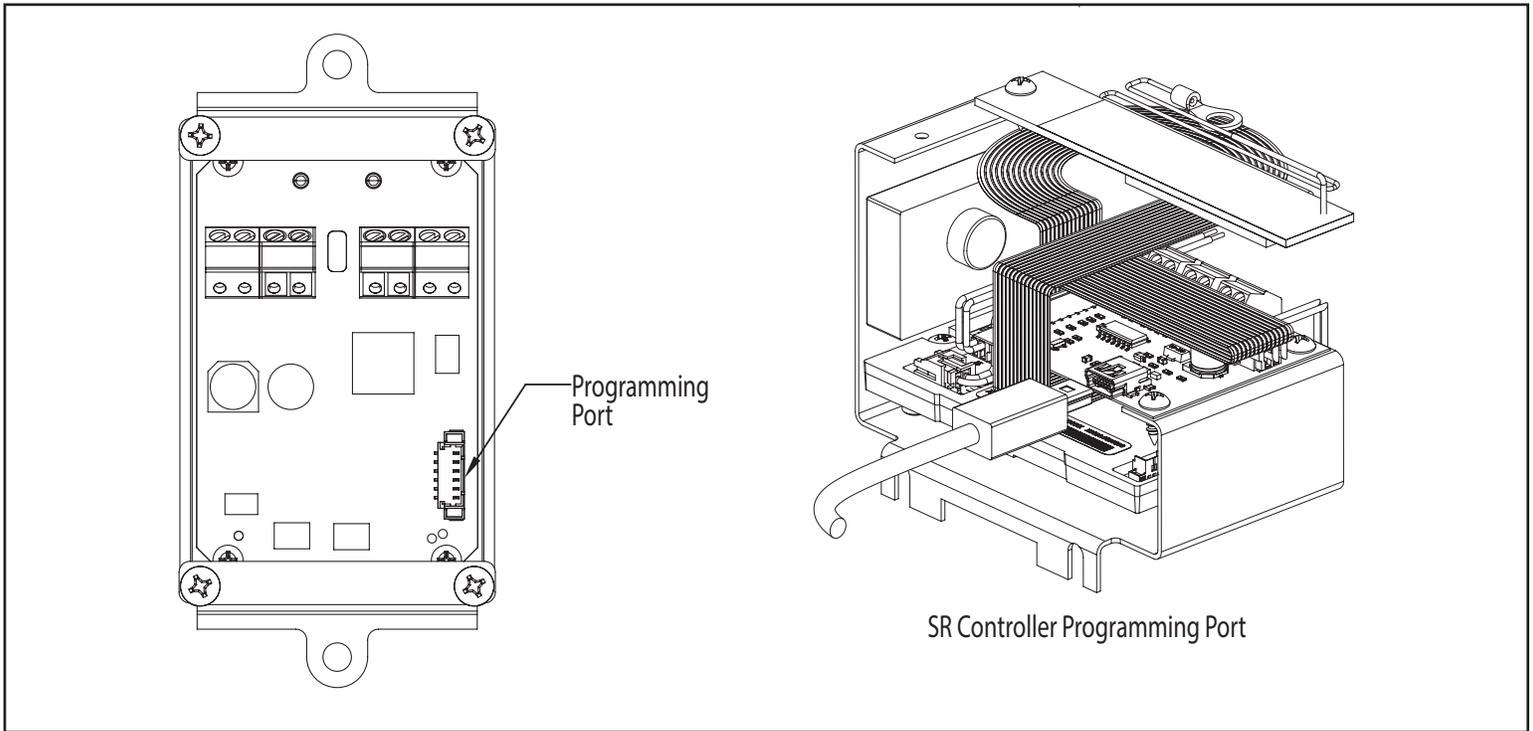
Mortise Preparation



SR Controller Internal Parts

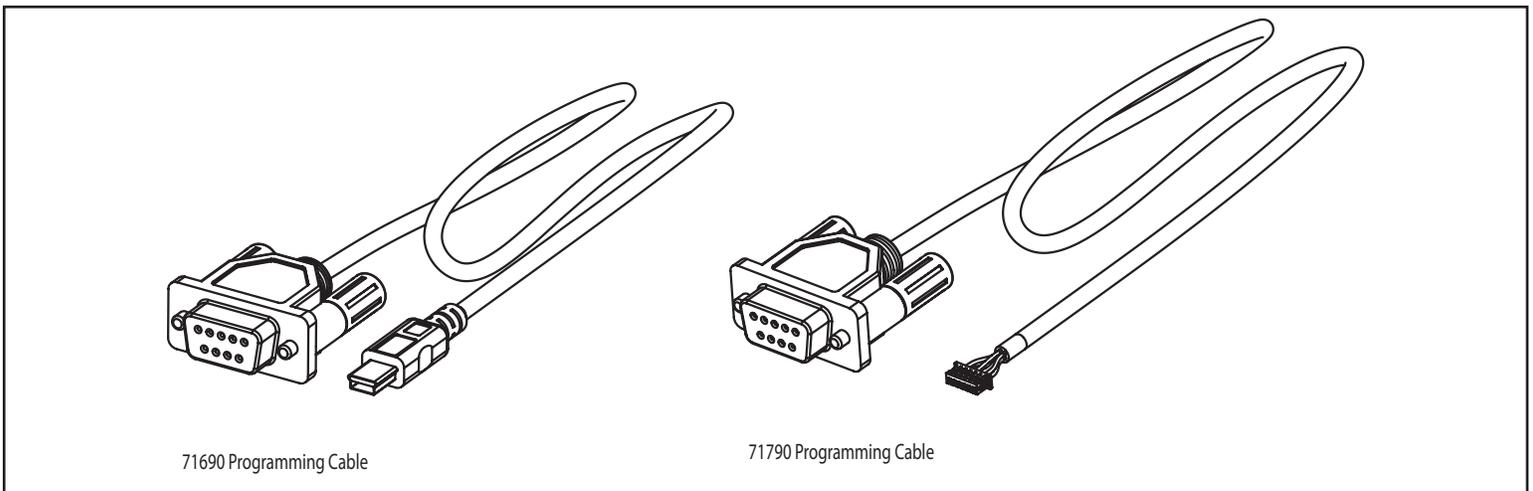
Annex

Programming



The SR RFID Concierge lock can be programmed the following two ways.

1. Through the USB port on the serial interface board of the controller using the standard hand held programming probe.
2. Through J2 of the SR reader using a special HH6 programming probe (P/N: 71790) that can be purchased separately.



Annex

Parts list

ITEM	PART #	DESCRIPTION	QTY
1	SEE READER TABLE	SR READER	1
2	SEE CONTROLLER TABLE	ASSY, SR CONTROLLER, CONCIERGE	1
3	30320-COLOR	STRIKE, UNIVERSAL	1
4	SEE THICKNESS TABLE	FACEPLATE, MORTISE	1
5	SEE THICKNESS TABLE	MORTISE ASSY, STD DAJ, CONCIERGE RFID	1
6	SEE TABLE	ASSY, SPINDLE SPRING	2
7	A27490	TIE WRAP, 14"	1
8	55250	NUT, WIRE	14
9	A29030-COLOR	SCREW PACK, MT UNIVERSAL	1
10	50260	WRENCH, 5/64, ALLEN BALL	1

CODE	DESCRIPTION	SR CONTROLLER P/N
1	PLASTIC FLUSH BOX	A31950-1-X-COLOR
2	METAL FLUSH BOX	A31950-2-X-COLOR
3	NO BOX	A31950-3-X-COLOR
4	PLASTIC SURFACE BOX	A31950-4-X-COLOR
5	METAL SURFACE BOX	A31950-5-X-COLOR
6	DIN RAIL MOUNT BOX	A31930-X-COLOR

CODE	DESCRIPTION	READER ASSEMBLY P/N	ASSEMBLED READER ASSEMBLY P/N
1	SR1 SURFACE MOUNT READER	N/A	118-514567-2626K
2	SR2 FLUSH MOUNT READER	A31570-2	A31560-COLOR
3	SR3 CLEAR FLUSH MOUNT READER	A31570-3	N/A

CODE	DOOR THICKNESS	125' FACEPLATE P/N	1" FACEPLATE P/N	125' MORTISE P/N	1" MORTISE P/N	SPINDLE ASSY P/N
A	1.75-2.38 (44-60)	S1190-COLOR	S3360-COLOR	A70220-HAND	A70230-HAND	A60580
B	1.38 (35)	N/A	S3360-COLOR	N/A	A70230-HAND	A60580
C	2.50-3.13 (63.5-79.5)	S1190-COLOR	S3360-COLOR	A70220-HAND	A70230-HAND	A60600
D	3.25-3.75 (82.5-92)	S1190-COLOR	S3360-COLOR	A70220-HAND	A70230-HAND	A60610

SRCT	DESCRIPTION
1	READER COLOR
2	CONTROLLER COLOR
3	PACKOUT OPTION
4	D-STANDARD
5	A-OCEAN SHIPMENT
6	PCB OPTION
7	READER OPTION
8	D-STANDARD
9	A-SR2/SR3 ASSEMBLED
10	FACEPLATE OPTION
11	D=125' FACEPLATE
12	1" FACEPLATE
13	DOOR THICKNESS
14	A=1.75-2.38 (44-60)
15	B=1.38 (35)
16	C=2.50-3.13 (63.5-79.5)
17	D=3.25-3.75 (82.5-92)
18	HANDING
19	L=HLR
20	X=HLR
21	R=RH
22	Y=HR
23	SECONDARY COMMUNICATION
24	N=NO
25	S=SECONDARY
26	C=ORABA BLE ENABLED
27	A=BLE COMPATIBLE
28	D=HILTON BLE ENABLED
29	B=BLE READY
30	PRIMARY COMMUNICATION
31	P=PRIMARY READY
32	D=INCOM RF
33	A=ZIGBEE N. AMERICA
34	E=CRESTRON
35	B=ZIGBEE EUROPE/ASIA
36	F=TELKONET
37	C=ZIGBEE INTERNATIONAL
38	SR CONTROLLER
39	1=PLASTIC FLUSH BOX
40	4=PLASTIC SURFACE BOX
41	2=METAL FLUSH BOX
42	5=METAL SURFACE BOX
43	3=NO BOX
44	6=DIN RAIL MOUNT BOX
45	READER TYPE
46	1=SURFACE
47	2=FLUSH
48	3=CLEAR FLUSH
49	VERSION

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	SEE BOX TABLE	ELECTRICAL BOX	1
2	A27016	TAPE, ADHESIVE	.5
3	A28440	POWER SUPPLY, RCU	1
4	A32200	BRACKET, SR CONTROLLER	1
5	A28580-DQRB	PCB ASSY, MT4 MAIN, CONCIERGE	1
6	A39150	HEX STANDOFF, FEMALE, 3/16 X 3/8, 4-40	3
7	A39160	SCREW, 4-40 X 3/16, PH, #1 PHIL	6
8	50170-COLOR	SCREW, #6-32 X 1, FHSS	4
9	A2275B-FINISH	PLATE, ECU/RCU, QO AND CAC	1
10	A27590	LABEL, WEEE	1
11	SEE COMM TABLE	LABEL, COMMUNICATION, FCC	1
12	A27570	LABEL, CE CONFORMITY	1
13	124-514512-001	PCB ASSY, SERIAL INTERFACE, SR READER	1
14	A3030B	WIRE HARNESS, CONCIERGE, MOTOR	1
15	A3050B	WIRE HARNESS, CONCIERGE DEADBOLT, MT4	1
16	A3020B	WIRE HARNESS, CONCIERGE, DAJ	1
17	A3060B	WIRE HARNESS, 2 PIN AMP - 2 PIN AMP, 5"	1
18	A28370	WIRE HARNESS, GROUND, SR CONCIERGE	1
19	A28060	FLEX CIRCUIT ASSY, QUANTUM PROX	1
20	A27030	SCREW, M2.9-1 X 8	4
21	SEE COMM TABLE	PRIMARY COMMUNICATION TRANSCEIVER	1

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

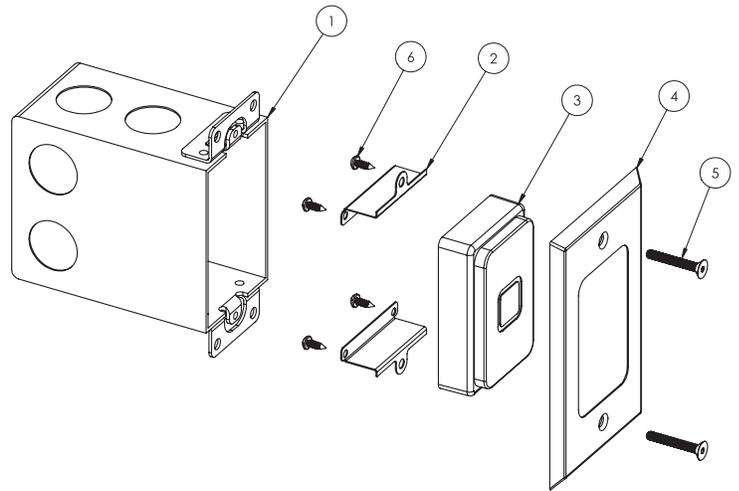
CODE:	TRANSCEIVER P/N:	FCC LABEL:	DESCRIPTION:
A	A28780-XMZ	A27540	ZIGBEE NORTH AMERICA 150mW
B	A28780-EAZ	A27540	ZIGBEE EUROPE/ASIA 10mW
C	A28780-IMZ	A27540	ZIGBEE INTERNATIONAL 84mW
D	A28990-B	A27640	INNCOM BI-DIRECTIONAL
E	A28780-CZN	A27540	ZIGBEE CRESTRON
F	A28780-XMZ	A27540	TELKONET

DESCRIPTION	SEE
A31950-...-COLOR	SEE COMMUNICATION TABLE
...	ELECTRICAL BOX
...	SEE ELECTRICAL BOX TABLE

Annex

Parts list

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	94850	ELECTRICAL BOX, STEEL, RCU FLUSH	1
2	A32180	BRACKET, SR2 READER	2
3	118-514567-3	READER ASSY, SAFLOK SR2	1
4	A32790-COLOR	PLATE, ECU/RCU, QO AND CAC	1
5	50170-COLOR	SCREW, #6-32 X 1, FHSS	2
6	A27030	SCREW, M2.9-1 X 8	4



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

May contain transmitter module with:

FCC ID: Q8SR79KSR

IC: 4652A-R79KSR

FCC ID: SAPMESSENGER2GHZ

IC: 7078A-A28780

FCC ID: SAPMESSENGEREM

IC: 7078A-A28990

Kaba

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