RKDT-SA-M / RKDT-SA-S Installation Instructions

SWITCHPLATE INSTALLATION DIAGRAM

Use appropriate Fastener

Mounting Plate

Reader Housing

3.28

Use supplied screw

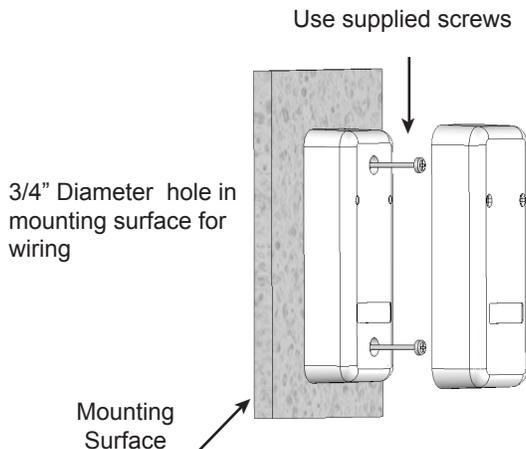3/4" diameter through hole for cables.
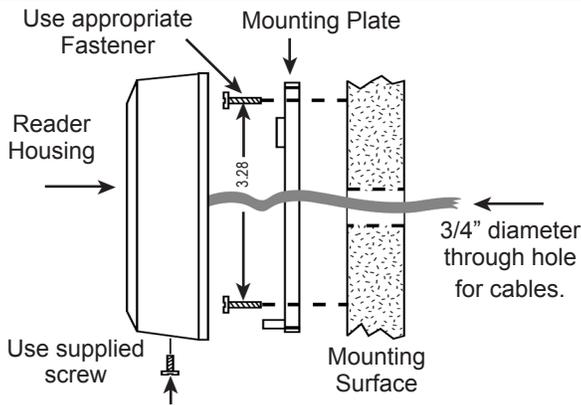
Mounting Surface

INSTALLATION STEPS FOR RKDT-SA-S:

1. If mounting the unit outdoors, especially on a rough surface like masonry, we recommend that you seal the reader with silicone caulking.
2. Drill holes as needed per installation diagram shown to the left or install a single gang j-box.
3. Run field wiring to reader location and feed into j-box or through cable hole.
4. Attach the mounting plate to the mounting surface or j-box with the appropriate fasteners.
5. Splice the connector pigtail to field wiring. Insert the connector into the back of the reader.
6. Attach the housing to the mounting plate by inserting the two tabs inside the top of the housing into the two slots at the top of the mounting plate.
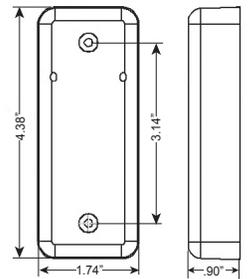7. Secure by installing supplied screw into the hole at the bottom of the reader.

4.50

3.20

SecuraKey
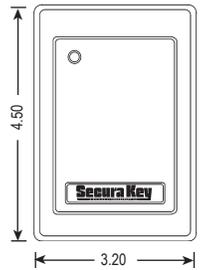
MULLION INSTALLATION DIAGRAM

Use supplied screws

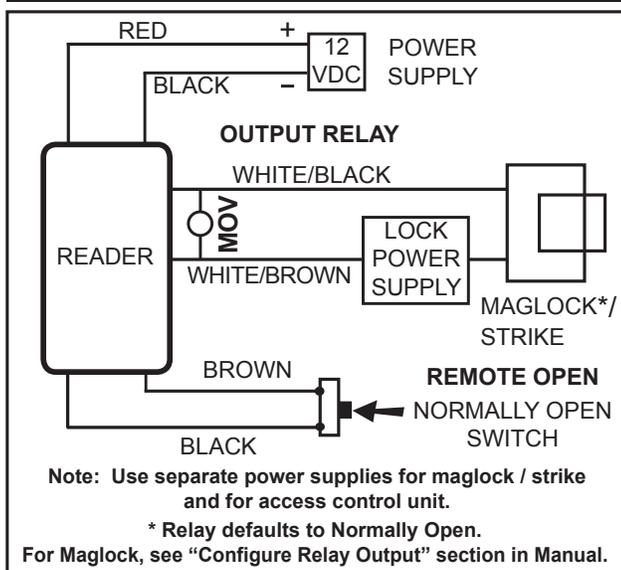3/4" Diameter hole in mounting surface for wiring

Mounting Surface

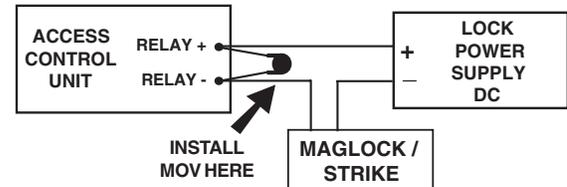## INSTALLATION STEPS FOR RKDT-SA-M

1. If mounting the unit outdoors, especially on a rough surface like masonry, we recommend that you seal the reader with silicone caulking.
2. Drill a hole for the field wiring. Remove decorative cover from reader. Using the reader as a template, mark the location of the two mounting holes. Drill two 1/8" pilot holes for the mounting screws.
3. Run field wiring to reader location and feed through cable hole.
4. Splice the connector pigtail to field wiring. Insert the connector into the back of the reader.
5. Attach the reader to the surface using the two machine screws provided. These may be replaced with tamper proof screws (customer supplied).
6. Slip on the decorative cover (if used) until both tabs snap into place.

4.38"

3.14"

1.74"

.90"

TYPICAL INSTALLATION

RED

+

12 VDC

POWER SUPPLY

BLACK

−

OUTPUT RELAY

WHITE/BLACK

MOV

READER

WHITE/BROWN

LOCK POWER SUPPLY

MAGLOCK*/ STRIKE

BROWN

REMOTE OPEN

NORMALLY OPEN SWITCH

BLACK

Note: Use separate power supplies for maglock / strike and for access control unit.

* Relay defaults to Normally Open.
For Maglock, see "Configure Relay Output" section in Manual.

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Installation of Metal Oxide Varistor

ACCESS CONTROL UNIT

RELAY +

RELAY −

+

−

LOCK POWER SUPPLY DC

INSTALL MOV HERE

MAGLOCK / STRIKE

Install the enclosed 40-volt MOV (Metal Oxide Varistor) across the relay contacts in the access control unit, as shown. The Access Control Unit must have its own power supply.

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RKDT WIRING CONNECTIONS		
WIRE COLOR	**REMOTE OPEN STANDALONE**	**LED CONTROL WIEGAND**
GREEN	DATA-0	DATA-0
WHITE	DATA-1	DATA-1
VIOLET	NOT USED	NOT USED
GRAY	NOT USED	NOT USED
ORANGE	NOT USED	GREEN LED INPUT (3, 1)
BROWN	REX LATCH + TIMER (2, 1)	RED LED INPUT (3, 1)
YELLOW	NOT USED	BEEPER INPUT (1)
BLUE	NOT USED	HOLD (1)
RED	5-14 VDC +	5-14 VDC +
BLACK	GROUND ---	GROUND ---
WHITE/BLACK	RELAY +	NOT USED
WHITE/BROWN	RELAY -	NOT USED
(1) Connect to GROUND to activate **(2) Input Programmed for Remote Open** **(3) Input Programmed for LED/Beeper Control**		

SPECIFICATIONS:

POWER REQUIREMENTS
5-14 VDC, 150 mA Max.

OUTPUTS
SPST Solid State Relay, 1A max. @60 VAC or DC
Normally open or normally closed (field programmable) (See Operating Guide).

INPUTS
Default is Remote Open (requires contact closure).
Also programmable as Red LED Control for online systems (see Operating Guide).
Additional inputs for Green LED, Beeper and HOLD are available in Wiegand mode.

WIEGAND OUTPUT
Any Wiegand Format up to 40 bits
Maximum Distance: 500 ft. - 5 or 8 conductor 20 gauge shielded cable

ENVIRONMENT
Access Control Unit, Key Tags and Cards
Ambient Temperature   -40° to +70°C (-40° to +158°F)
Humidity   0 to 95% (non-condensing)

PARTS SUPPLIED:

Access Control Unit
MOV
Operating Guide
Installation Instructions
Log Sheet

RKDT-SA-S
Mounting Plate
2, #6 Mounting Screws
1, 4x40 Screw
1, Security Screw
1, Cable Assembly

RKDT-SA-M
2, #6 Mounting Screws
Cable Assembly
Decorative Cover

ACCESSORIES (NOT INCLUDED):

RK-HHP   Hand-Held Programmer
RK-PS: 9VDC Plug-in Power Supply. It is designed to power the RKDT-SA-M/SA-S. Requires 110 Volts AC power.
SK-SR   SecuRelay™ - Smart Relay Module DPDT.

INSTRUCTION TO THE USER
FCC ID: NNHDTR1

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