

SDAC – Single Door Access Control Wiring

Refer to the SDAC Installation Guide (Document #KD10095-E) for complete instructions on connecting the control board and hardware components, setting DIP switches & jumpers, testing voltages, and wiring specific readers. Ensure lock hardware complies with building codes and fire regulations.

This document is supplied with the LUNA™ software and is included electronically upon installation.

Do not store this document inside the SDAC enclosure.

Revised Serial Number Format/Software Enrollment

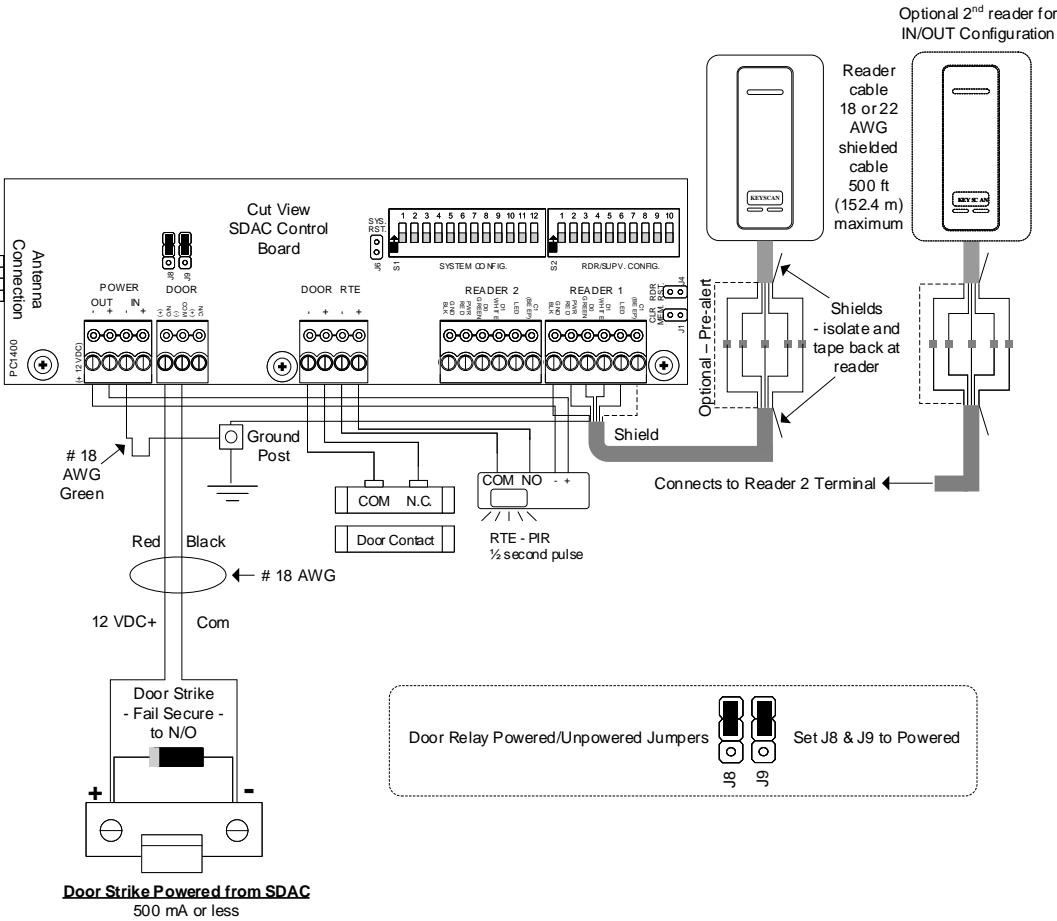
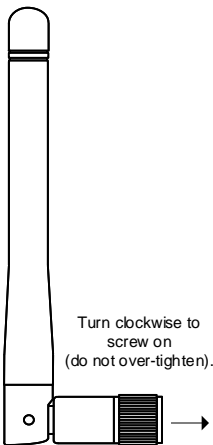
EPROM serial numbers on SDAC control boards have 3 alpha characters followed by 4 numeric characters – example JAC1234. Enter all seven characters of the serial number - above example entered as JAC1234 – into the LUNA™ software when adding a new panel.

Single Panel Communication Only

The SDAC does not support CIM connections to other control units and features associated with the CIM product.

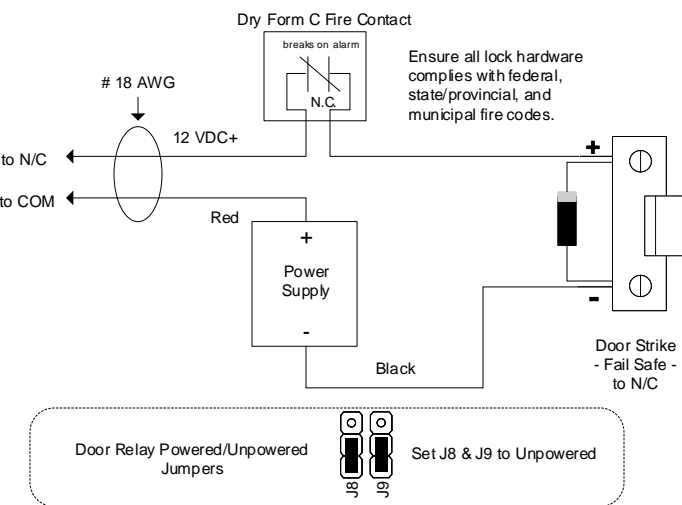
SDAC Antenna

The SDAC antenna is required to be connected when the SDAC is powered. The device may be damaged if powered with no antenna for a short period of time. The supplied antenna should not be changed or remotely located. Replacement antenna Part# SDRA can be ordered if this antenna is lost or damaged. For optimum communication distance, the antenna should point vertically.



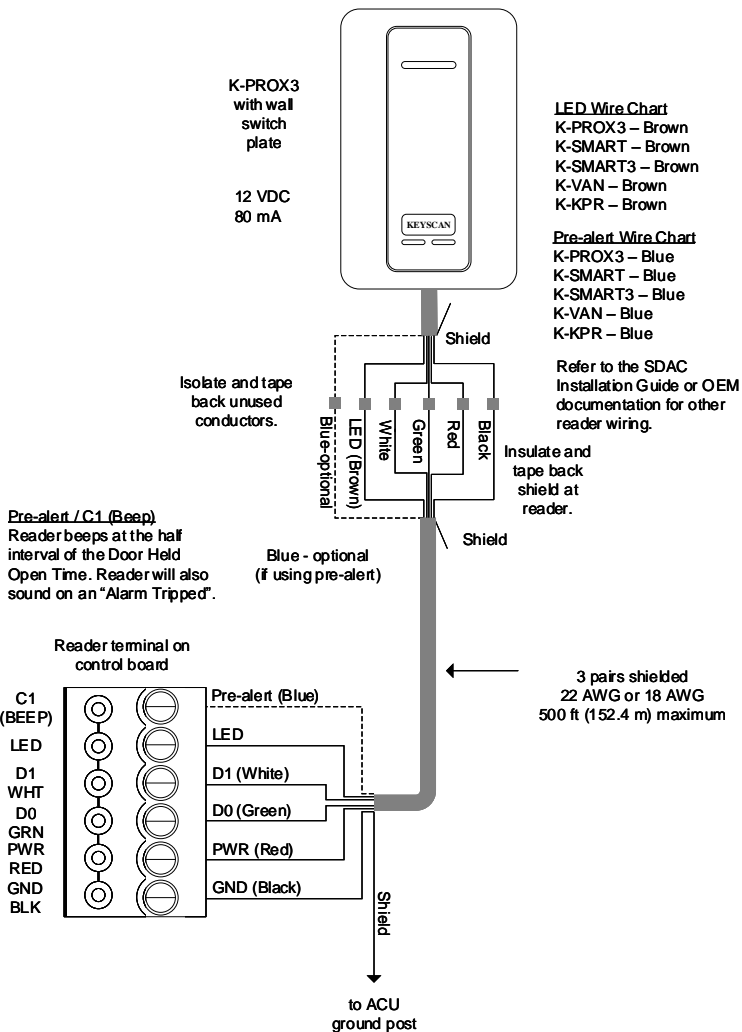
External Strike Power/Fire Alarm Interconnection

Connect diode at door strike when powered from independent power supply, observe polarity.

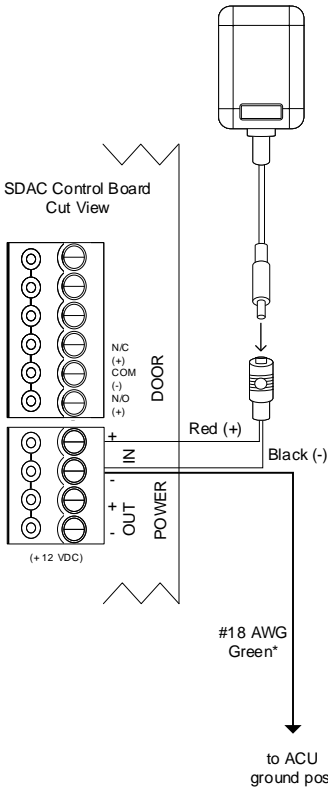


For mag lock connections, see SDAC Installation Guide.

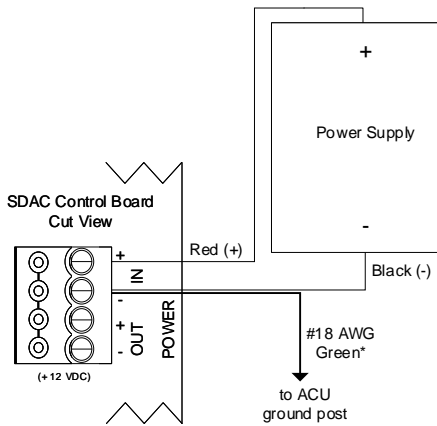
Reader Termination



Plug-in Transformer & DC Female Power Connector (SDACSKT Version)



Optional DC Power Supply (Not Included) Connections +12V DC



Power Supply Requirements

(Typical max current draw of all connected devices = 680mA)  
+  
(Reserve current to handle peaks = 200mA)  
=  
Required ampacity of power supply (Typical 880mA)

**Note:** A +12V DC power supply with standby battery/charging capabilities should reach the minimum rating of the selected power supply, unless externally powering other devices, such as long RFID range readers. Lock choices will also increase power supply requirements.

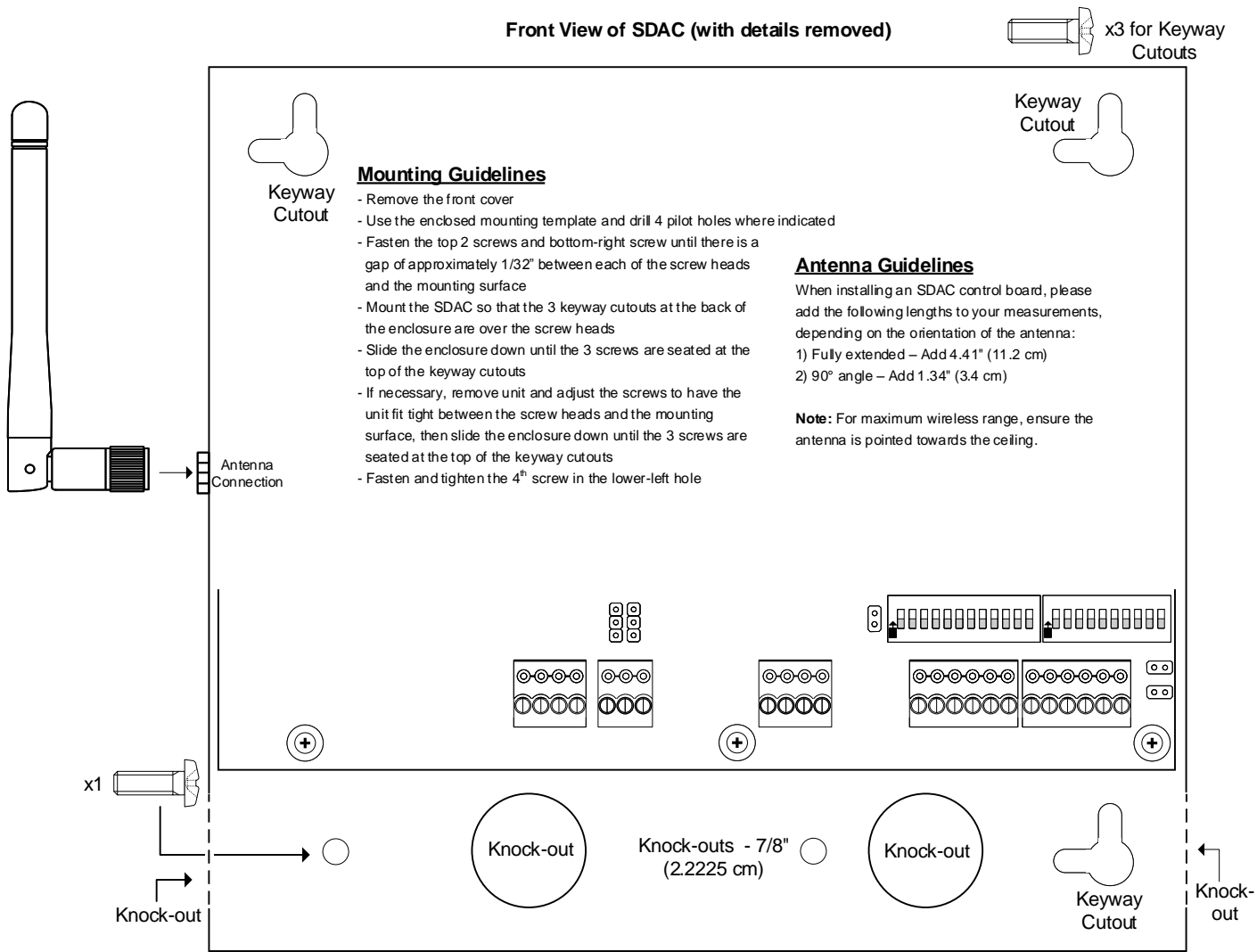
Current Output Limits of SDAC outputs:  
(PTC Resettable Fuses)  
Reader port 1 – 500 mA  
Reader port 2 – 500 mA  
Door output – 500 mA  
RTE port – 300 mA

\* Required for ungrounded power supply

SDAC Control Board – Serial # \_\_\_\_\_ (Communication address) / IP Address \_\_\_\_\_ Subnet Mask \_\_\_\_\_

Name \_\_\_\_\_  
Door \_\_\_\_\_ Reader # 1 / Direction \_\_\_\_\_ MAC Address \_\_\_\_\_  
Reader # 2 / Direction \_\_\_\_\_

Mounting Guidelines – Horizontal Mount



**Note:** If the complete SDAC control board setup (including antenna) does not fit into the designated mounting space, the unit can be turned clockwise by 90° (with the antenna facing upward).