840/845

Name: Contactless Smart Card Reader
Model: 430134001, 430135 001(keypad version)
Serial Number:
Manufacturer (If Different From Applicant):
Approximate Power Requirement (Volts And Amps): +12Vdc, 140mA
Approximate Size (Weight And Dimensions): 4.75”H x 3.0”W x 1.7”D
Brief Description Of Equipment Construction And Theory Of Operation: Reads all mifare 1 type contactless smart cards, reads the unique serial number of the card and converts The hex format into BCD, communicates over a bi-directional line in F2/F format.

7.0 Additional Information

Product Operation: The reader reads the unique manufacturer’s serial number, converts it to BCD and sends it to the micro.
Switch Inputs: The reader monitors and reports the status of a normally closed supervised door contact switch and a normally open supervised exit request pushbutton.
Supervised F/2F Mode Operation: The reader sends smart card data or reader status data to the microcontroller approximately once every second and waits for an acknowledgment from the microcontroller. The reader continues sending the data until an acknowledgment is received. If
an acknowledgment is not received after the third attempt, the reader stops reading smart cards, the red LED starts flashing slowly (every 2 seconds), and a short triple beep sounds every 30 seconds. Once the
reader receives an acknowledgment, it begins reading smart cards again, the beeper stops sounding and the red LED stops flashing.
Card Read Operation: Each time the reader reads a smart card, the yellow LED blinks off briefly and the beeper sounds. On systems configured for PIN entry, the green LED flashes to indicate that keypad
data is expected.

PIN Code Entry: All PIN codes must be entered in this format: * x x x x # This applies to Model 845 applicable modes only.
Reader Tamper Operation: The 84x Readers incorporate a tamper switch. While the reader is separated from its backplate, all normal smart card reading functions are disabled and a tamper condition is indicated by a triple beep every 30 seconds. The red LED flashes quickly (every 400 ms) and all communications with the microcontroller are suspended, taking the reader off-line. The reader is also equipped with an external tamper feature. To activate this feature, connect a single-pole, single-throw (SPST), normally-closed pushbutton switch (installer-supplied) to connector JP3 on the printed circuit board assembly and install the switch between the wall and reader backplate. When the reader and the backplate are removed from the wall, the switch will close; therefore, closing the connection, causing a tamper condition.