970/971/972/973

Name: Proximity Reader
Model: 430085001/501; 430088001/501
Serial Number:
Manufacturer (If Different From Applicant):
Approximate Power Requirement (Volts And Amps): +12Vdc, 200mA
Approximate Size (Weight And Dimensions): 4.75”H x 5.5”W x 0.90”D
Brief Description Of Equipment Construction And Theory Of Operation: The reader provides an energy field that will activate a passive card. The reader detects , demodulates and validates the digital stream sent by the card. Upon validation of the of the data stream, the reader will transmit that same data via a 2kHz F/2F format to the Microcontroller where the determination is made if the user has access to the controlled area/door. 970 is tuned for mounting on std. US gang box, 971 reader is tuned for metal mounting. 972=971 w/keypad; 973=972 w/keypad

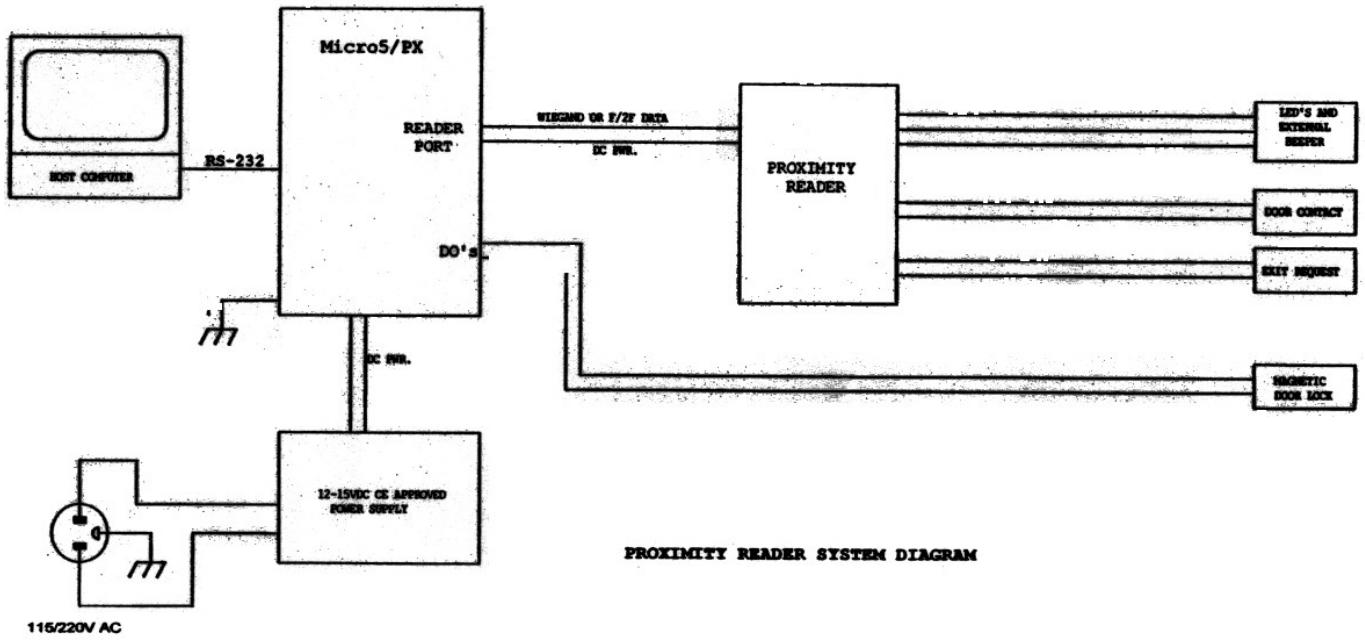
Modes :
1. 972 & 973 have keypad for additional PIN input (i.e. card access plus PIN)
2.
3.
4.
5.

Configurations :
1. Reader can be configured to read up to 10” (dip switch configurable)
2. Reader can be configured for different formats (unsupervised, supervised, wiegand—dip switch)

7.0 Additional Information

1. The reader used a single processor with a 12MHz clock frequency. There are no external address or data lines.
2. A 2MHz signal form the processor is divided down to 125kHz to drive the antenna
3. The antenna circuit is parallel tunes which shunts the harmonic energy through the capacitance rather than the inductive component (antenna)
4. Shielded twisted pairs are used to connect the readers to the M/5
5. An active bandpass filter in the receiver section rejects signals outside the spectrum generated by the ID badges.
6. Transient protection is provided by series resistance and diode-device on the I/O lines. This product was designed to tolerate line-induced transients as well as ESD transients

Interconnections



PROXIMITY READER SYSTEM DIAGRAM