



950/960

Name: Proximity Reader
Model: 430090001; 430091001
Serial Number:
Manufacturer (If Different From Applicant):
Approximate Power Requirement (Volts And Amps): +12Vdc, 200mA
Approximate Size (Weight And Dimensions): 950: 3.0”H x 1.75”W x 0.50”D 960: 3.05”x1.8”x0.8”
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 data stream, the reader will transmit that same data via a 2kHz F2F format to the Microcontroller where the determination is made if the user has access to the controlled area/door. 950 is intended to mount on the door frame of a window, tuned for metal; 960 mounts directly on glass and has double sided indicators

Modes :
1. Both readers consist of an interface (separate metal box) mounted in a secure area and 1 or 2 compact readheads that communicate over a total cable lengths of up to 400 to 500 ft. The interface unit contains the circuitry that drives the readheads.
4.
5.

Configurations :
1. Reader can be configured to read up to 4.3" (dip switch configurable) for 950, 5.5" for 960
2. Reader can be configured for different formats (unsupervised, supervised, wiegand—dip switch on interface unit)
3. 960 mounted on glass has double sided indicators and a bi-directional read range.

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 from the processor is divided down to 125kHz to drive the antenna
3. The antenna circuit is parallel tuned which shunts the harmonic energy through the capacitance rather than the inductive component (antenna). Shielded twisted pairs are used to connect the readers to the M/5
4. An active bandpass filter in the receiver section rejects signals outside the spectrum generated by the ID badges.
5. 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

