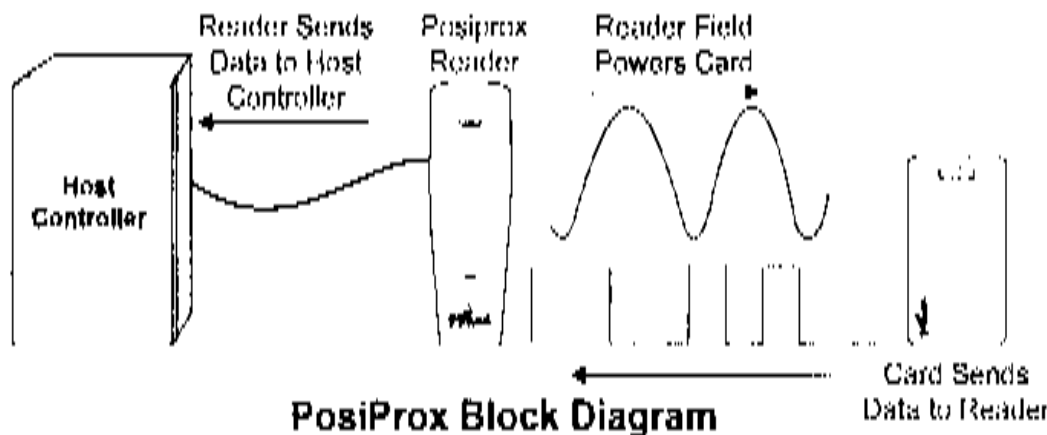


## POSIPROX PROXIMITY READER BASIC OPERATION

When power is supplied to the reader, the antenna in the reader will emit a continuous low-frequency RF field. When a card is placed within this field, the antenna inside the card will gather the energy present in the field to power the internal circuitry of the card. The card will then transmit its unique identification (ID) number to the PosiProx reader. After receiving the signal, the reader verifies the validity of the signal. If the signal is valid, it will be decoded by the reader and sent in the appropriate output format to the host controller through data cables. The controller then determines what action to take in response to the information received from the reader.



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user man.*

# **POSIPROX PROXIMITY READER**

## **TECHNICAL SPECIFICATIONS & FEATURES**

### **INPUT VOLTAGE:**

Typical	13.8V <sub>DC</sub>
Minimum	11.0V <sub>DC</sub>
Maximum	14.5V <sub>DC</sub>

### **INPUT CURRENT:**

Typical	65mA @ 12.5V <sub>DC</sub>
With card present	105mA @ 12.5V <sub>DC</sub>

### **POWER CONSUMPTION:**

Typical	812mW @ 12.5V <sub>DC</sub>
With card present	1.31W @ 12.5V <sub>DC</sub>

### **READ RANGE:**

GPR-700 ISO PosiCard	Up to 4" (10cm)
GPR-701 Key Tag	Up to 2.5" (6cm)

### **FREQUENCY:**

Exciter field	125 KHz Pulse Modulated
Receive Low Frequency	12.500 KHz
Receive High Frequency	15.625 KHz

**OPERATING TEMPERATURE:**

Minimum -35°C (-31°F)  
Maximum +65°C (149°F)

**OUTPUT FORMATS:** 26-Bit Wiegand, ABA & Custom

**CABLE DISTANCE:** 500 feet (152.4 meters)

**RECOMMENDED CABLES:**

22AWG (.8mm Dia.), Multi-Conductor, Alpha 5196, 5198

18AWG (1.2mm Dia.), Multi-Conductor, Alpha 5386, 5388

Belden 9553 (18AWG, 6 conductor, stranded with overall shield)

**LED INDICATOR:** Tricolour LED Display & Face-light

**AUDIO INDICATOR:** "Beeper"

**COLOUR:** Black/Grey/White

**WEIGHT:** 9.8 oz. (280g)

**MATERIAL:** UV resistant, ABS plastic

**DIMENSIONS:** 5.75" H x 2" W x 1" T

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### Notes:

- ◆ The specified read range assumes no electrical interference and that the card is presented parallel to the reader, with the reader installed and operated as outlined in this manual.
- ◆ The read range will vary depending on the type of card used. The larger the card, the greater the read range.
- ◆ The read range may decrease slightly if mounted on metal.
- ◆ All specifications subject to change without notice.

### Features:

#### *Tricolour LED Display:*

The PosiProx reader includes a tricolour LED display (red, green and amber) used to indicate the reader's status. When the orange wire is pulled low, the red LED will illuminate. When the yellow wire is pulled low, the green LED will illuminate. When the yellow and orange wires are pulled low (oscillation at 1KHz is required), both LEDs will illuminate producing an amber colour.

#### *Face-light:*

This elegant red light remains illuminated at all times so it can be easily located in the dark.

#### *Audible Tone:*

The PosiProx reader includes a built in beeper that will emit a tone every time the brown wire is pulled low.

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*Programmable:*

Using the "PosiWin" software, the installer can program such features as the output format, the intensity of the face-light, and many other features.

*Weather Resistant:*

Mount indoors or outdoors.

*SwiftRead:*

After presenting the card, regardless of the card's access status, the LED will flash to indicate that the reader has read the card and the data was sent to the controller. After the SwiftRead period, the controller resumes control of the LED as usual. The SwiftRead period can be programmed using the PosiWin software but please note that this may affect operation.

*Diagnostic Test:*

All PosiProx readers perform a self-diagnostic test to ensure proper operation at start-up and verify the integrity of the data lines. Every time power is applied to the reader, the green LED will flash twice to indicate the diagnostic test was performed and no problems were found. If the reader determines a problem after performing the diagnostic test, the green and red LEDs will toggle on and off and the beeper will emit a pulsing tone.