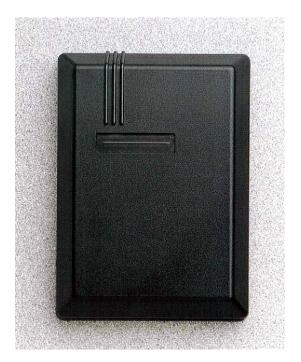# Mirage™ SG
Proximity Readers

Sielox

The Sielox Mirage SG is immune to metal distortion. The Mirage SG epitomizes the best in compact reader design and is aesthetically pleasing, provides maximum read range, and accommodates any application. Sielox's metal immune Mirage SG proximity reader is ideal for controlling access in every environment, from elevators to parking lots to buildings and areas within buildings.

Principles of operation

Mirage readers constantly transmit a fixed radio frequency (RF) signal, recognizable by a microchip on board the proximity card. When the card is held within six inches of the readers, the RF signal powers the microchip repeatedly communicates a unique 32-bit code to the reader until the card is removed from operation range.
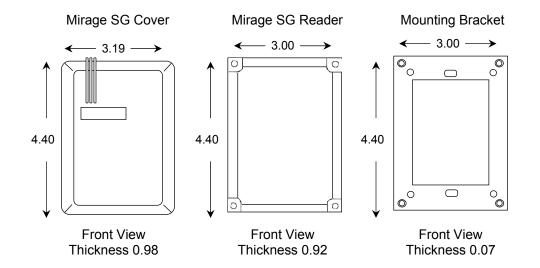
After the first transmission, the reader oversamples the unique signature four times before sending the verified data to the appropriate controller for further processing. This process occurs in 90 milliseconds or less.

Mirage SG

Mounted on or off metal surfaces, the Mirage SG consistently operates at a six inch read range. The compact reader interfaces with all Pinnacle systems as well as other access control manufacturer's panels. Based on the same principles of operation as all Mirage readers, the Mirage SG offers an enhanced visual verification feature that uses a dual Red / Green LED. When the proximity card presented contains a valid code, the LED turns green, signifying "Access Granted." If it contains an invalid code, the LED repeatedly flashes from red to green, signifying "Access Denied."

The reader's slim, semi-flush design allows for easy mounting to any industry standard electrical / utility box. The all-in-one antenna and electronics make installation easier and less costly than two piece reader designs currently available. The Mirage SG's durable Lexan enclosure permits mounting of the reader in the harshest weather and security environments.

Mirage™ SG
Proximity Readers

Mirage SG Cover	Mirage SG Reader	Mounting Bracket
3.19	3.00	3.00
4.40	4.40	4.40
Front View Thickness 0.98	Front View Thickness 0.92	Front View Thickness 0.07

Specifications

Mirage SG Proximity Reader

Input Power: 12VDC, +/- 10%, 75mA

Note: The above voltages are required at the reader; therefore any voltage drop in the cable must be taken in to account. Using the cables specified below assures compliance.

Operating Temperatures: -40° C to +65° C

Relative Humidity: 90% Max., operating, non-condensing

Reader Dimensions: 4.20" x 3.00" x 9.2"

Cables: 5 Conductor, stranded, shielded, 18 Gauge for distances up to 500'
(Belden #83655, West Penn Wire #3280 or equivalent)

Status LEDS: Red / Green

Read Range: 4 to 6 inches

*No degradation when mounting on metal