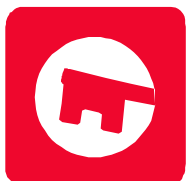


Zodiac

FINGERPRINT VERIFICATION READER

**Zodiac SmartCard Reader
for Non-Biometric Doors**

**Zodiac reads a Fingerprint Template
stored in a contactless SmartCard or the
revolutionary stick-on BioPatch !**



FEATURES

- Template stored in ISO 15693 contactless SmartCard or stick-on BioPatch
- Replaces existing access readers in minutes, no additional wiring needed
- Peel and stick BioPatch to existing access cards, cell phones, or other devices
- 26-64 Bit Wiegand or Track 2 ABA output

Introduction ...

Cansec's **Zodiac Fingerprint Reader** sets a new standard for fingerprint verification readers with its blinding speed, small size and unparalleled ease of implementation. Zodiac's brings the cost of biometrics in line with conventional access control readers for the first time.

Plug & Play Biometrics ...

Zodiac's unique design allows it to easily **replace any conventional access control reader in minutes** with no change required to the existing access control system. This is made possible by storing each user's fingerprint template in their contactless SmartCard rather than storing it in the reader or a central database. Because templates do not have to be downloaded into every reader, no additional communication wiring is needed between readers or to a template management PC. Zodiac is available with standard Wiegand or Magnetic Stripe emulation allowing it to be used with virtually all access control and time & attendance systems.

The Stick-On Biometric Solution ...

Where a user does not wish to replace their existing access control cards, the stick-on **BioPatch** can be easily affixed to the existing card to provide the same functionality as the contactless SmartCard. BioPatch is the ultimate solution for integrating biometrics into existing systems where re-badging is not feasible.

Not Every Door Needs Biometrics ...

For non-Biometric equipped doors, Cansec manufactures the small, low cost **Zodiac SmartCard Reader** that allows Zodiac credentials to be used on doors that do not require biometric authentication. These readers simply extract the user's Facility Code and ID number encoded in the card and transmit the data in industry standard format, thus allowing them to be used with virtually any existing access control or time and attendance system.

Specifications	Zodiac Fingerprint Reader
Output:	26 to 64 bit Wiegand, Track 2 ABA
Read Range:	Up to 3"
SmartCard / BioPatch:	ISO 15693, Inside Tech. PicoPass 16KS
LEDs:	2 x bi-colour, 1 externally controlled
Beeper:	standard, externally controlled
Size:	3 ¼"(w) x 4 ¾"(h) x 1 ½" (d)
Weight:	10 oz
Mounting:	standard single gang electrical box
Housing:	high impact polycarbonate (Lexan)
Operating Temp.:	-15°C to 40°C
Environment:	Indoor / Outdoor with enclosure
Power Supply:	12VDC, 400 mA
Sensor:	
Manufacturer:	SecuGen®
Type:	Optical
Verification:	Data Transfer 1 second Authentication 250 ms
Cable:	6 cond., 22 AWG, stranded, overall shield
Warranty:	readers: one year , credentials: 3 year

Zodiac Enrollment Options ...

Zodiac Enrollment Software allows the system administrator to program the ID number of the Zodiac credential. This is critical when deploying the BioPatch solution as the ID number can be programmed to match the existing access card. As a result, the combined card will "look" like a single access card to the host system whether it is used at a Zodiac or conventional reader.

The Zodiac credential can also be programmed with two fingerprint templates. In the event that a user's primary finger is unreadable due to injury, the alternate finger can be used.

If for some unforeseen reason, a user cannot be enrolled or the system administrator wishes to allow access to selected individuals without biometric authentication, a Zodiac credential can be placed in Bypass Mode. Users presenting a Bypass Mode credential will not be required to scan their finger. The Facility Code and ID are simply read and transmitted to the access control system.

Zodiac is Secure ...

To further enhance security of the Zodiac solution, the Enrollment Software, which is used to capture a fingerprint template and write it to the card, cannot be run without a unique Software Logon Card. The unique Logon Card also stores the Facility Code and card format that can be used by the enrollment station.

Zodiac raises the security bar by introducing the **STAR** module that prevents the unit from being defeated by replacing it with a conventional Wiegand reader or keypad. Zodiac is the first product of its kind to address this industry wide vulnerability inherent in virtually all biometric access control products.

Zodiac can be placed into **Secure Transmission Mode (STM)**. When STM is enabled (via a DIP switch inside the reader), Wiegand data sent to the access control system is encrypted and sent over the standard Wiegand data lines to an optional **Secure Transmission Authentication Receiver (STAR)** module located inside the access control panel. The STAR module decrypts the data and relays it to the access control system in "clear Wiegand" format. With STM enabled, reader substitution attempts will fail as the resulting "clear Wiegand" data generated by the replacement device will be rejected by the STAR module.

In many security environments, it is desirable to have the Zodiac Fingerprint Readers switch modes between "card + fingerprint" and "card only" based on a schedule or level of security alert. This can be done by connecting the optional STAR module to a relay output of an existing access control system. When the STAR module is signalled to change modes, an encrypted signal is sent to the reader over the existing Wiegand cable. At the same time, the reader is placed in Secure Transmission Mode to further enhance security.

Conclusion ...

The unique features engineered into the total **Zodiac** solution make it the **only** choice for those facilities wishing to upgrade to biometrics where security simply cannot be compromised.

Note: Specifications are subject to change without notice.



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