

# FUSION Fingerprint Template on Card Reader

Borer FUSION Biometric Reader provides the highest levels of secure authentication, supported by multi-factor authentication solution. The Biometric Reader validates access entry with one, two or three factor authentications:

- something they HAVE (smart card)
- something you ARE (fingerprint)
- something you KNOW (PIN/password)

### User authentication:

- Card only
- Card and Fingerprint
- Card and PIN
- Card, PIN and Fingerprint

On enrolment, the user's biometric template is captured, encrypted and stored on the card.

To gain access, cardholders will present their ID cards to the reader, the fingerprint template is read from the card's memory, and the cardholder is prompted to present their finger for verification.

Borer FUSION Biometric Reader provides the system operator with a unique Access Identity Management approach that combines security, user convenience, cost effective and secure three factor authentication.



## Features

- **Space for up to eight different Biometric Templates in the Identity Access Card's Secure Memory**, supporting a wide range of biometric technologies
- **Secure Biometric Templates and Cardholder Details** as cardholder data is fully AES encrypted
- **Support for an Unlimited Number of Cardholders** as biometric templates are read from the cardholder's card and checked one to one with the live fingerprint
- **Independent of a Central Database** providing biometric authentication even when the readers are working stand alone
- **ISO and ANSI formatted Biometric Fingerprint Templates** which ensure interoperability with other ISO and ANSI compliant sensors ensuring continuity of supply by eliminating dependency on any one sensor manufacturer
- **User Programmable Open Format MIFARE® DESFire® Cards** which, unlike systems that use proprietary and exclusive formats, eliminates single supplier dependency and benefits the user with lower cost for replacement cards

## Benefits

- **Delivers the Highest Level of Secure Access Authentication** for access control applications
- **Address Staff Privacy Concerns** as biometric fingerprint templates are stored in the memory of the card, which is held by the cardholder
- **Distributed Intelligence** enables biometric identities to be checked and access decisions to be made at the point of access
- **Dual Database of Cardholders and Access Rights** held at every reader, allowing fall back to the last known good database in the event of a data corruption or network interruption during database download
- **Future Proof** with firmware updates downloaded directly to the reader over the LAN enabling new biometric sensor technology and smartcard standards to be accommodated when introduced

## Technical Specifications

Installation	Borer access control readers come with a matching backbox for surface mounting or can be mounted directly on to a single width electrical box
Colour	Black
Power Supply	220mA quiescent, 300mA @ 12 Volts DC
Dimensions/Weight	130 x 81 x 43 / 300g
Installation Range	Potted with rubber compound suitable for both indoor and outdoor installation
Reader Status Information	Polyphonic tones, Two bi-colour LED's and tamper optical sensor
Card Reader Termination	300mm pigtail - 4 Wire (2 Data   2 Power) to Lock Manager
Data Retention without Power	10 years
Network Connections	Controller Area Network (CAN), ISO 11898 standard for serial data communications
Cable Type	CAT5e/6 Cable, max. cable length 300m from Midspan Bridge
Transmission Protocol	CSMA-CA (Carrier Sense Multiple Access with Collision Avoidance)
Operating Temperature Range	-25 to 60 C (-13 to 140 F)
Read Range	Up to 80mm for MIFARE® and 40mm for DESFire®, range may vary with token type and environment
Smart Card Technology	DESFire® (13.56MHz) ISO 14443A and 7816-4 standard cards or tokens
Sensor Technology	Optical sensor with false acceptance rate (FAR) up to 10 <sup>-8</sup> , longer lifetime and secure data transmission
Fingerprint Technology	Compliance with ISO SC37 19794-2, ANSI/INCITS 378

## Related Products

### USB DESFire® Smart Card Encoder and Fingerprint-On-Card Enrolment Terminal 04-304



### USB DESFire® Smart Card Encoder 04-303



### Ethernet Lock Manager 04-154



### Two Door Lock Manager 04-413



### DESFire® Card 07-275

