HID Signo Biometric Reader 25B

Designed for real-world performance

The HID® Signo™ Biometric Reader is designed for "real-world" applications, where people have wet, dry, dirty or worn fingerprints. This is where the reader comes into a class of its own — capturing and reading fingerprints that other devices cannot.

With HID Global's patented multispectral imaging technology, the device captures fingerprint images from both the surface and the sub-surface, thereby delivering consistent read performance regardless of environmental and skin conditions. Industry-leading liveness detection capabilities also prevent spoof attempts leveraging fake fingers or latent fingerprints.

Safeguard against costly vulnerabilities with end-to-end security for each user's biometric data. Biometric images are converted into a "template" (a string of data), meaning no image of the fingerprint is ever saved. Templates stored on the device or server are then also encrypted with AES-256.

The HID Signo Biometric Reader supports a variety of popular contactless credential technologies including Seos®, iCLASS SE®, iCLASS®, MIFARE DESFire, MIFARE Classic and HID Mobile Access® virtual credentials. Each device supports Near Field Communication (NFC) and Bluetooth out of the box.

This device is paired with the web-based HID Biometric Manager software that performs configuration and management of the reader, including firmware updates over the network. In addition, the software enables enrollment of user's fingerprint credentials for use with the different biometric authentication modes 1:1 verification and 1:N identification.*

DOOR CONTROLLER CAPABILITIES

Built-in door access controller functionality limited to API partner control. This enables the deployment of an intelligent and powerful edge-based biometric solution that supports local access authorization and door control functions. The device is also capable of supporting a downstream reader for secure egress via OSDP connection.

KEY BENEFITS

- **Highly versatile –** Unmatched flexibility to deploy multiple authentication modes, including biometric fingerprint and contactless physical and mobile credentials, with a single reader platform.
- **Unparalleled performance –** Ultimate biometric fingerprint match reliability with patented multispectral imaging sensor that reads the subdermal layer of the skin for better accuracy.
- **Connected to the future –** Easily configure and manage in the field with HID Biometric Manager or API integration, including support for software upgrades over the network.

The HID Signo Biometric Reader can reliably read fingerprints of all types, including those that are hard-to-read due to the following conditions:

DRY   WET   COLD   DIRTY

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HIGHLY VERSATILE

- Supports 1:N biometric authentication and template on card

- Enables mobility with native Bluetooth and NFC support

- On-Prem RESTful API along with a developer environment and tool set to accelerate time to market

UNPARALLELED PERFORMANCE

- Patented multispectral imaging technology

- Native OSDP secure channel capability

- Robust outdoor performance with an IP67 rating and IK9 impact rating

HID BIOMETRIC MANAGER

- Select your authentication mode + enable and disable credential compatibility

- Load Elite and mobile keys in the field

- Securely enroll users and encode templates on card

Model Number	25B
13.56 MHz Credential Compatibility	• Secure Identity Object™ (SIO) on Seos®, iCLASS SE®/SR • iCLASS® Access Control Application (standard iCLASS cards) • ISO 14443A (MIFARE) CSN, ISO 14443B CSN • Secure Identity Object (SIO) on NFC-enabled devices using Host-Based Card Emulation, Template on Card with Seos DESFire EV3
2.4 GHz Credential Compatibility	Secure Identity Object (SIO) on Mobile IDs (Bluetooth Smart)
TYPICAL CONTACTLESS READ RANGE[1] - SINGLE TECHNOLOGY ID-1 CARDS	
Seos™	1.0" (3 cm)
iCLASS®	2.0" (5 cm)
MIFARE® Classic , MIFAREPlus	3.0" (8 cm)
MIFARE DESFire® (EV1, EV2, EV3)	1.5" (4 cm)
TYPICAL MOBILE ID READ RANGE USING BLUETOOTH & SEOS1	
Twist and Go	6.6 ft (2 m)
Tap	5.9" (15 cm)
HARDWARE	
Mounting	Mullion Size; mount on door mullion or any flat surface
Color	Black Body; Silver Mounting Bracket
Dimensions (width x length x depth)	1.97" x 8.03" x 2.17" (5.0 cm x 20.4 cm x 5.5 cm)
Product Weight	13.04oz (0.38kg)
Operating Voltage Range	12 VDC (9-14 VDC)
Current Draw - Normal Standby Current[2]	800mA
Current Draw - Maximum Average[3]	1.5A @12 VDC
Current Draw - Peak[4]	2A @ 12 VDC
Supervised Inputs Power (MAX)	0.025W (5mA sink, 5V nominal) 0 to +5 VDC
Operating Temperature	-4° F to 153° F (-20° C to 66° C)
Operating Humidity	0% to 95% relative humidity non-condensing
Storage Temperature	-40° F to 194° F (-40° C to 90° C)
Environmental Rating	IP67 Indoor/Outdoor and IK09 Impact Ratings
Fingerprint Biometric Sensor Type	Optical (Multispectral Imaging)
DEVICE CAPACITY	
Transaction Event Logs	1,000,000
Max number of cardholders	250,000
Max number of users	5,000 (1:N Searching Identification)
BIOMETRIC FUNCTIONS	
Template output format	1:1: ANSI 378 1:N: Proprietary (ANSI 378+ format)
Verify (1:1) match score input	ANSI 378 template
Identify (1:N) search score input	Proprietary template (ANSI 378+ format)
Latent and liveness detection	Yes (multispectral imaging)
Language Support[5]	English, French, German, Spanish (International), Russian, Portuguese (Brazilian), Italian, Chinese (Simplified), Japanese, Korean, Arabic
Communications	Ethernet (10/100), Wiegand, Open Supervised Device Protocol (OSDP) via RS485 (OSDP BIOREAD & BIOMATCH command and pivCLASS Embedded Authentication - NOT SUPPORTED)
Panel Connection	Pigtail
GPIO	1 TTL Input/Output (Selectable), 1 Supervised Input/ TTL Output (Selectable)
Relay Contact Rating (Dry Output)	1A @ 30VDC (MAX Amperage that is UL Certified)
Certifications	UL294/cUL (US), FCC (US), IC (Canada), CE (EU), RCM (Australia, New Zealand), BIS & WPC (India), Anatel (Brazil) NOM & IFT (Mexico), NCC (Taiwan), iDA (Singapore), MIC (Japan), SRRC (China), RoHS III, and additional regions. www.hidglobal.com/certifications
Crypto Processor Hardware Common Criteria Rating	EAL 4+
Patents	www.hidglobal.com/patents
Housing Material	UL94 Polycarbonate
Warranty	Warranted against defects in materials and workmanship for 18 months (see complete warranty policy for details)

1 Read range listed is statistical mean rounded to nearest whole centimeter. HID Global testing occurs in open air. Some environmental conditions, including metallic mounting surface can significantly degrade read range and performance; plastic or ferrite spacers are recommended to improve performance on metallic mounting surfaces. BLE range is adjustable, typically 2 meters.
2 Standby AVG - RMS current draw without a card in the RF field.
3 Maximum AVG - RMS current draw during continuous card reads. Not evaluated by UL.
4 Peak - highest instantaneous current draw during RF communication.
5 Refers to languages supported by "HID Biometric Manager", software utility tool for biometric enrollment and device configuration.