HID®

iCLASS SE® RB25F
Fingerprint Reader/Controller

The iCLASS SE® RB25F can reliably read fingerprints of all types, including those of children and the elderly, as well as hard-to-read fingerprints caused by the following conditions:

Cold ✓

Dry ✓

Dirty ✓

Wet ✓

DESIGNED FOR REAL-WORLD PERFORMANCE

- **Reliable –** Works with anyone, anytime, anywhere!
- **Secure –** Supports breakthrough Seos® technology for multi-layered authentication between card and reader, while protecting against fake and spoof fingerprints.
- **Powerful –** Powerful new platform that can match fingerprints in less than a second.
- **Robust –** Designed for indoor or outdoor use.
- **Flexible –** Multiple interface options for various system architectures.

The iCLASS SE® RB25F is a robust, versatile and high-power fingerprint reader/controller that addresses the global need for a reliable biometric reader for physical access control applications.

This reader/controller uses HID Global's patented multispectral imaging technology that captures fingerprint images from both the surface and the sub-surface, thereby delivering a consistent, best in class biometric performance regardless of environmental and skin conditions.

The iCLASS SE RB25F 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.

This unique technology also enables trusted and industry-leading liveness detection capabilities, preventing spoof attempts leveraging fake fingers or latent fingerprints. The iCLASS SE RB25F also comes with duress finger functionality as well as built-in optical tamper protection

with automated alerts for enhanced security, making it the ideal product to protect secure areas and sites.

This new, powerful, state-of-the-art platform provides an enhanced experience for users due to the extreme speed and accuracy of reading fingerprints. Fingerprints are matched in under a second, resulting in reduced queues and delays.

The iCLASS SE RB25F supports a variety of industry-standard technologies including iCLASS® Seos®, iCLASS SE, iCLASS®, MIFARE® DESFire®, MIFARE® Classic and HID Mobile Access® virtual credentials.

The RB25F device is paired with the web-based HID Biometric Manager software that performs configuration and management of the reader/controller. 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.

Features:

- Connects to the host on a TCP/IP network
- Connects to controllers on Wiegand or RS-485 (OSDP)
- Up to 1,000,000 transaction events
- Controller functionality accessible via API only (Future offering)

- Supports up to 250,000 users on device
- Max 250,000 card holders
- Max 50,000 users (1:1 Matching Verification)
- Max 5,000 users (1:N Searching Identification)

- Interface:
  - One Wiegand Port In/Out Selectable
  - One RS-485 Port (OSDP)
  - One TTL Input/Output Selectable
  - One selectable Supervised Input/ TTL Output

SPECIFICATIONS

Model Name & Base Part Number	RB25F
13.56 MHz Credential Compatibility	Secure Identity Object™ (SIO) on iCLASS® 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
2.4 GHz Credential Compatibility	Secure Identity Object (SIO) on Mobile IDs (Bluetooth Smart)
Typical Contactless Read Range[1] - Single Technology ID-1 Cards	
iCLASS® Seos™	1.0" (3 cm)
iCLASS®	2.0" (5 cm)
Mifare® Classic , Mifare Plus	3.0" (8 cm)
Mifare DESFire® (EV1, EV2)	1.5" (4 cm)
Typical Mobile ID Read Range using Bluetooth & Seos[1]	
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)
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
Relay Contact Rating (Dry Output)	1A @ 30VDC (MAX Amperage that is UL Certified)
Certifications[6]	FCC (USA), IC (Canada), CE now including RoHS III, REACH, RCM (Australia, New Zealand), UL294/cUL (US & Canada) pending.
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.
6. Please contact your HID sales representative for Certification in your country.

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