# SmartID® S10, SK10, SW100 and SWK100  Readers

## ISO 14443 Reader or Reader/Writer

◗ **Custom Configurations** – Completely configurable for every access control application challenge.

◗ **Open Architecture Design** – ISO 14443A MIFARE®/ DESFire® Contactless smart card, compatible for broad card interoperability.

◗ **HID MIFARE** – Supports secure MIFARE applications including HID Corporate 1000 card formats

◗ **Field Upgradeable** - Use cards or a serial connection to upgrade reader firmware and/or field configuration

## ACCESS flexibility.

The SmartID® ISO 14443 reader is a flexible, highly secure and stylish contactless smart card reader ideal for customers that require a customizable reader for new or existing installations. Designed for a wide variety of applications from entry level access control to secure ID management, the reader family is completely configurable for every access control application challenge.

The SmartID reader offers the ultimate choice in interoperability and programmability. Its unique capabilities, such as reading any MIFARE® and/or DESFire® application data file, meet all installation requirements.

SmartID readers provide one of the broadest ranges of card compatibility in the industry and can be configured as a specific solution for each project (see specifications chart on opposite side for specific compatibilities). The SmartID reader is available with or without keypad, adding an extra layer of protection for higher security installations.

◗ Configuration cards can further personalize reader configurations to best match installation requirements.
◗ Wide voltage span (5 - 24 VDC).
◗ Wiegand or Clock-and-Data outputs easily interface with existing access control panels.
◗ Communications configurable to RS232, RS485 and RS422 for read only or read/write applications.
◗ FlexSmart® MIFARE/DESFire format compatibility.
◗ Compatible with HID MIFARE (read-only) applications run on 6055, 6074, 6075 and 6071 readers.

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**Mounting**
The reader easily mounts on a door mullion or single-gang electrical box (using the electrical box cover plate accessories). An LED flashes green and the beeper sounds when reader is presented with MIFARE® and DESFire® or other reader application compatible card. The multiple LEDs and beeper can also be controlled by the host system.

**Security**
MIFARE®
Contactless smart card and reader platform according to the ISO 14443A. The card structure provides multi-application functionality, whereby each application is secured for read and read/write by security keys. All RF data transmission between card and reader is encrypted using mutual authentication and challenge response to prevent replay attacks. Readers and cards must have matching security keys.

DESFire®
Contactless smart card and reader platform according to ISO 14443 level 4. Featuring DES and 3DES Encryption on all RF data transmission. The card structure provides multi-application functionality, whereby each application is secured up to 14 different user-definable security keys for read and read/write access. Readers and cards must have matching security keys

**Looking for AES encryption with EV1? Search HID Global's website for "High Frequency Migration Readers".**

**Easily Interfaced**
The SmartID® Reader line provides flexible configurable output formats and output protocols. Reader communication supported: Wiegand, Clock-and-Data, ISO 7811 Clock-and-Data ABA Track 2 Emulation, RS232, RS422, RS485 or custom format output.

**Indoor/Outdoor Design**
Rugged, weatherized polycarbonate enclosure, designed to withstand harsh environments, provides reliable performance and resistance to vandalism.

| | 803xD |
|---|---|
| **\* Base Model Numbers** | 8030D SmartID Mullion S10 Reader or SW100 Reader/Writer<br>8031D SmartID Mullion Keypad SK10 Reader or SWK100 Reader/Writer |
| **Dimensions** | 5.59" x 1.81" x 0.98" (14.2 x 4.6 x 2.5cm) |
| **Read Range** | Up to 1.18˝ (3.0 cm) Dependent upon installation conditions. |
| **Mounting** | Ideally suited for mullion-mounted door installations, any flat surface or over single-gang electrical box<br>(see "Accessories" for more information). |
| **Power Supply** | 5 - 24 VDC |
| **Current Draw** | 68 mA AVG, 82 mA PEAK (@ 12 VDC) |
| **Operating Temperature** | -13° F to 149° F (-25° C to 65° C) *****. |
| **Operating Humidity** | 0 – 95% non-condensing |
| **Environmental** | IP55 |
| **Transmit Frequency** | 13.56 MHz |
| **Applications** | MIFARE (CSN), MIFARE (Sector), Dual MIFARE, DESFire 0.6, T=CL (Read/Write), 3964 (Read/Write) |
| **Reader Outputs** | Wiegand, Clock-and-Data, ISO7811 Clock-and-Data ABA Track 2 Emulation, RS232, RS485, RS422 or custom format output |
| **Cable Distance** | Wiegand 500 ft (150 m) (18 AWG / 1.02 mm / 0.82 mm2), Clock-and-Data 82 ft (25 m) (22 AWG / 0.65 mm / 0.33 mm2), RS232 15 ft (4.6 m) (24 AWG / 0.51 mm / 0.20 mm2), RS485/RS422 4000 ft (1219 m) (24 AWG / 0.51 mm / 0.20 mm2) |
| **Card Compatibility** | ISO 14443A ** – read/write MIFARE, DESFire,<br>* compatibility based on application selected |
| **Certifications** | UL294/cUL (US), FCC Certification (US), IC (Canada), CE (EU), C-tick (Austrailia, New Zealand), SRRC (China),<br>MIC (Korea), NCC (Taiwan), iDA (Singapore), RoHS, IP55 |
| **Housing** | SB TSG Polymers |
| **Color** | Silver |
| **Accessories** | 8090AS Single-gang Electrical Box Cover<br>9287AS Spacer Kit<br>0300A Tamper Switch<br>0055A Screw Cover<br>0056A Black Plexiglass Cover |
| **Termination** | Terminal Strip |
| **Works With** | 143x/144x SmartID MIFARE Credentials***<br>145x SmartID DESFire Credentials***<br>82000 EdgePlus E400 Single Door Controller****<br>70100 VertX V100 Door/Reader Interface****<br>72000 VertX V2000 Reader Interface/Network Controller**** |
| **Warranty** | Warrantied against defects in materials and workmanship for life. (See complete warranty policy for details.) |

\* Additional configuration format must accompany all reader orders. See 13.56MHz How To Order Guide (HTOG) for more details.
\*\* Compatibility based on selected application
\*\*\* See 13.56MHz HTOG for more details.
\*\*\*\* See Network Access Solutions HTOG for more details.
\*\*\*\*\* -20° F (-4° C) is lower temperature bound for keypad readers

## ACCESS experience.

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