NORTECH

PRODUCT DATA

DS0717-01

HID® Signo™ Readers Models: 20, 40, 20K, 40K

Product Description

Highly Versatile — Support for the widest range of credential technologies, including HID Mobile Access® via native Bluetooth and Near Field Communication (NFC).

Unparalleled Performance — Ultra secure storage of cryptographic keys on certified secure element hardware, plus a new surface detection feature that enables the reader to automatically re-calibrate and optimise read range performance.

Connected to the Future — All readers include out-of-the-box support for Open Supervised Device Protocol (OSDP) for secure bidirectional communication.

HID Signo™ is the signature line of physical access control readers from HID Global. The versatility, performance and connected capabilities of HID Signo readers set a new industry benchmark for the most highly adaptable, interoperable and secure approach to electronic access control.

Offering an unparalleled breadth of functionality, HID Signo affords security system installers and administrators a simple and effective approach to secure access control for almost any scenario.

With support for the widest array of credential technologies — past, present and future — HID Signo is the perfect choice for those looking to make the transition to a secure authentication technology.

HID Signo readers transcend the traditional approach to security by being designed to be connected and managed remotely without needing to physically touch each device. This functionality empowers access control systems to dynamically respond as new needs, configurations or threats arise.

Ready For The Future Now

- Mobile-ready by default, including Apple's Enhanced Contactless Polling (ECP) to support credentials in Apple Wallet
- Sleek, innovative design to suit modern architecture Integrated OSDP for secure authentication and configuration post installation
- Built on a hardware platform designed to be adaptable to support future technology
- Designed to seamlessly integrate into the HID Origo® ecosystem

Features

Powerfully Secure

- Multi-Layered security to ensure data authenticity and privacy
- EAL5+ Certified Secure Element Hardware
- Native OSDP secure channel capability
- Trusted secure authentication using the SIO data model
- Supports iCLASS Elite™ and Corporate 1000 Programs

Meet Every Need, Adapt To Any Situation

- Go mobile with native Bluetooth and NFC support
- Integrated 125 kHz credential read support for easy migration
- Supports over 15 common credential technologies
- Flush mount terminal block and pigtail wiring options
- Robust outdoor performance with an IP65 rating

Manage, Upgrade And Configure

- Easily and securely managed using HID Reader Manager®
- Configure via a mobile device or OSDP
- Update firmware in response to threats
- Personalise by configuring audio visual or keypad settings
- Deactivate legacy credential technology to conclude secure migration

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Specifications

HID Signo Reader Model	20	20K	40	40K
2.4 GHz (Bluetooth) Credential Compatibility	Mobile Credentials powered by Seos® (HID Mobile Access)			
13.56 MHz (NFC) Credential Compatibility	Seos, iCLASS SE®, iCLASS SR®, iCLASS®, MIFARE Classic, MIFARE DESFire EV1/EV2, FeliCa™ & Contactless e-Purse Application Specification (CEPAS), Mobile Credentials powered by Seos (HID Mobile Access)			
125 kHz Credential Compatibility	HID Proximity®, Indala® Proximity, AWID Proximity, and EM Proximity			
Typical Read Range[1]	Seos®, MIFARE Classic, MIFARE DESFire EV1/EV2 & ISO14443A Single Technology Cards – 4 to 10 cm HID / AWID Proximity®, Indala Proximity®, EM Proximity & 125 kHz Single Technology Cards – 6 to 10 cm			
Mounting	Suited for mullion-mount door installations or any flat surface mounting		Suited to mount and cover single gang switch boxes with a slotted mounting plate for alternate back-box spacing	
Colour	Black bezel with silver trim baseplate[2]			
Keypad	No	Yes (2 x 6 layout)	No	Yes (3 x 4 layout)
Dimensions (WxLxD)	45mm x 121.5mm x 19.5mm	45mm x 121.5mm x 21.5mm	80mm x 121.5mm x 19.5mm	80mm x 121.5mm x 21.5mm
Product Weight	Pigtail: 95 g, Terminal: 75 g	Pigtail: 110 g, Terminal: 90 g	Pigtail: 140 g, Terminal: 120 g	Pigtail: 160 g, Terminal: 140 g
Operating Voltage	12V DC			
Current Draw[3]	NSC[4]: 60 mA Peak: 250 mA Max. Avg: 70 mA IPM[5]: 45 mA	NSC[4]: 65 mA Peak: 250 mA Max. Avg: 75 mA IPM[5]: 48 mA	NSC[4]: 65 mA Peak: 250 mA Max. Avg: 75 mA IPM[5]: 45 mA	NSC[4]: 70 mA Peak: 250 mA Max. Avg: 80 mA IPM[5]: 55 mA
Device Input and Output	Input: Tri-color LED, Buzzer, Hold @ Active Low Output: Tamper Relay 0-60V DC @ 100mA Max (Dry Contact)			
Operating Temp. & Humidity	-35° C to +66° C, 0% to 95% non-condensing			
Storage Temperature	-40° C to +85° C			
Environmental Rating	UL294 Outdoor and Indoor rated, IP65			
Transmit Frequency	125 kHz, 13.56 MHz, and 2.4 GHz			
Communications & Panel Connection	Wiegand, Clock-and-Data and RS-485 Half Duplex (OSDP) via Pigtail (0.5 m) or Terminal Strip			
Device Management	HID Reader Manager / OSDP configuration			
Certifications	UL294/cUL (US), FCC (US), IC (Canada), CE (EU), RCM (Australia, New Zealand), SRRC (China), KCC (Korea), NCC (Taiwan), iDA (Singapore), RoHS, MIC (Japan), GreenCircle, Bluetooth SIG, and additional regions.			
Security Ratings	EAL 5+ Certified Secure Element Hardware			
Housing Materials	Polycarbonate – UL94 V0			

1. Read range listed is statistical mean rounded to nearest centimetre increment for ID-1 or clamshell credentials. HID Global testing occurs in open air. Form factor, technology and environmental conditions, including metallic mounting surface, can degrade read range performance; plastic spacers are recommended to improve performance on metallic mounting surfaces.
2. Black trim baseplate & reader spacers available as an additional accessory at an additional cost.
3. Measured in accordance with UL294 standards; see Installation Guide for details.
4. NSC – Normal Standby Current; see Installation Guide for details.
5. Intelligent Power Management (IPM) – Reduces reader current consumption up to 43%, based on model, compared to standard operating mode.

Ordering Information

Signo-20: Contactless smartcard reader – multi-technology, mobile ready, mullion mount

Signo-20K: Contactless smartcard keypad reader – multi-technology, mobile ready, mullion mount

Signo-40: Contactless smartcard reader – multi-technology, mobile ready, wall switch mount

Signo-40K: Contactless smartcard keypad reader – multi-technology, mobile ready, wall switch mount

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