HID® Signo™ Express and HID® Signo™ Comparison

	HID® Signo™ 20 - Express	HID® Signo™ 20
Image		
Base Part Number	20X	20
Purpose	The latest generation of modern, secure, and cost-effective reader for PACS applications	The latest generation of modern and secure readers, offering a full-range of legacy reader support for PACS applications which require flexible credential compatibility and focused reader and credential solutions.
2.4 GHz Credential Compatibility	• Secure Identity Object™ (SIO) on Mobile IDs via NFC and BLE	• Secure Identity Object™ (SIO) on Mobile IDs via NFC and Bluetooth LE • Apple's Enhanced Contactless Polling (ECP) to support credentials in the Apple Wallet
13.56 MHz Credential Compatibility[1]	• Seos® with Secure Identity Object™ (SIO) • ISO14443A (MIFARE® CLASSIC, MIFARE® DESFire® EV1/2/3 & MIFARE® DESFire® EV1/2/3) CSN	• Secure Identity Object™ (SIO) on iCLASS Seos®, iCLASS SE®/SR, MIFARE® DESFire® EV1/2/3 and MIFARE® Classic (On by Default) • MIFARE® Classic and MIFARE® DESFire® EV1/2/3 custom data models • Standard iCLASS® Access Control Application • ISO14443A (MIFARE® CLASSIC, MIFARE® DESFire® EV1/2/3 & MIFARE® DESFire® EV1/2/3) CSN • ISO14443B CSN, ISO15693 CSN • FeliCa™ CSN, CEPAS CSN or CAN • FIPS-201 PIV Credentials
125 kHz Credential Compatibility[1]	No	• HID Proximity™ • Indala® Proximity • EM Proximity
Mounting	Mullion	
Cabling	Terminal strip only	Pigtail or Terminal Strip
Dimensions (w x l x d)	1.77 in x 4.78 in x 0.77 in (45 mm x 121.5 mm x 19.5 mm)	
Color	Black bezel with black trim baseplate	Black or white bezel with silver trim baseplate[2]
Velocity Checking Configuration Option[2]	Yes	
Intelligent Power Management Configuration Option[3]	Yes	
Metal Tuning Configuration Option[4]	Manual	Automatic surface detection
Reader Management[5]	HID Reader Manager® Mobile App or HID Linq software	
Environmental Rating	UL294 Indoor/Outdoor rated, IP65 rated as default	
Housing Material	UL94 Polycarbonate	
Warranty	Limited Lifetime	
Operating Temperature Rating	-31° F to +150° F (-35° C to +66° C) 0% to 95% non-condensing	
Accessory Options	• Black Mounting Plate • Black Spacer 1.3 mm (0.5 in) or 2.5 cm (1 in)	• Silver, Black or White Mounting Plate • Silver, Black or White Spacer 1.3 mm (0.5 in) or 2.5 cm (1 in)
Idle LED Options	Red default, Blue optional	Red default, additional full-spectrum color options available via configuration
Weight	2.65 oz (75g)	• Pigtail model, 3.35 oz (92 g) • Terminal model, 2.65 oz (75 g)
Operating Voltage	12VDC[6]	
Peak Current Draw – Standard Power or IPM Mode[6] (mA)	NSC: 60 mA; Peak: 250 mA; Max. Avg: 70mA; IPM: 45 mA	
Communication Options	Wiegand	• Wiegand • Clock-and-Data • Open Supervised Device Protocol (OSDP v2.2) via RS485
Availability & Product Certifications	Check with your HID representative on availability in your region UL294/cUL (US), FCC (US), IC (Canada), CE (EU), RCM (Australia, New Zealand), SRRC (China), MIC/Giteki (Japan) WPC/BIS (India), KCC (Korea), NCC (Taiwan), iDA (Singapore), MIC (Japan), RoHS, GreenCircle, and Bluetooth SIG.	Available in most regions, globally UL294/cUL (US), FCC (US), IC (Canada), CE (EU), RCM (Australia, New Zealand), SRRC (China), MIC/Giteki (Japan) WPC/BIS (India), KCC (Korea), NCC (Taiwan), iDA (Singapore), MIC (Japan), RoHS, GreenCircle, Bluetooth SIG and additional regions.
Alternative Form Factors Available	No	20K mullion with keypad; 40 wall-switch; 40K wall-switch with keypad

1 - Credential support is based on the purchased credential profile; see the HID How to Order Guide for details.
2 - Velocity Checking Configuration Option: Velocity checking is used to detect a brute force attack on a reader either by trying various key materials or by detecting rejection of panel data by the panel (i.e., Wiegand attack on proximity technology). Each time the Velocity Check Timer expires, the number of media processed is compared to the number of media accepted by both the panel and the reader. If an attack is not detected, the counters and timer are reset.
3 - Intelligent Power Management Configuration (IPM) Option: When IPM mode is configured to be on, the reader is affected in several ways: After a successful card read, the IPM timer kicks off. At this point the reader is still operating in the default state. Once the Threshold time has been reached, the reader activates IPM mode and the LED is turned off (black), and the RF Poll cycle is set to the Duty Cycle value provided in the IPM configuration item. The reader stays in this mode with a reduced poll cycle and the LED off, until a valid card is read again. At which point the IPM timer is reset and the reader is back at the first step again.
4 - Metal Tuning Configuration Options : When metal tuning is configured to be on, the credential read performance will be optimized to improve performance on metal environments (also resulting in reduced performance in non-metal environments).
5 - Setting, configuration, and upgrade options are based on the purchased credential profile and reader model; see the HID Reader Manager User Guide for details.
6 - Measured in accordance with UL294 standards at +10% and -15% of rated voltage input; NSC – Normal Standby Current, see Installation Guide for details.