

HID[®] Signo[™] 25B Biometric Reader/Controller

Install Guide



13.56 MHZ/2.4 GHz Contactless
SRD Model: 25B

Supplied parts

- HID Signo Biometric Reader/Controller 25B (1)
- Installation Guide (1)
- Screw (1) – for attaching the reader to the backplate

Recommended parts (not supplied)

- Cable, 5-9 conductor (Wiegand), 4 conductor Twisted Pair Over-All Shield and UL approved, Belden 3107A or equivalent (OSDP)
- Certified LPS DC power supply
- Security tool HID 04-0001-03 (for anti-tamper screw)



www.hidglobal.com/PLT-04027

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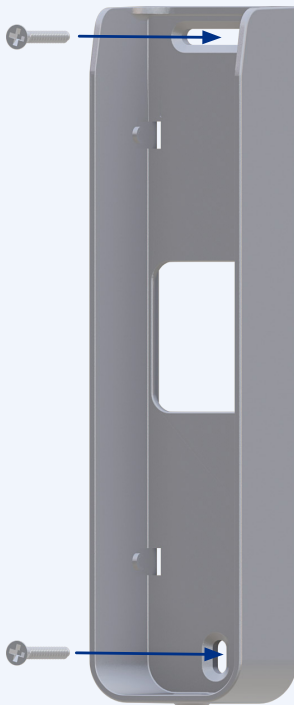


PLT-04026 B.3

1. Mount the mounting plate

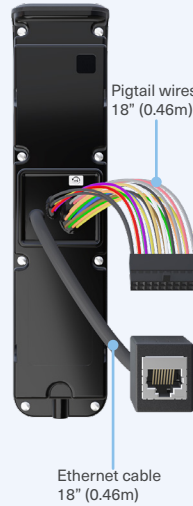


ATTENTION
Observe precautions for handling ELECTROSTATIC SENSITIVE DEVICES



Screws not supplied.

2. Wire the 25B



Function Group	Wire Color	Function	AWG	Max Length ¹
RS-485	Green	RS-485 A	24	4,000 ft (1,219 m)
	Tan	RS-485 B		
	Black	RS-485 Ground		
Relay	Gray	Relay – Common	22	500 ft (152 m)
	Yellow	Relay – Normally Open		
	Orange	Relay – Normally Closed		
Inputs (Controller mode only)	Pink	REX Input (Supervised)		
	Gray	DPS Input (Supervised)		
	Black	Input Ground		
Wiegand Port	Green	D0		
	White	D1		
	Brown	RED		
	Orange	Greeb		
	Yellow	BUZ		
	Blue	HOLD		
	Violet	TPR		
	Black	Ground		
DC Power	Red	Power +12V		
	Black	Power Ground		

Function Group	Connector	Function	Max Length
Network	RJ45 socket	Ethernet	328 ft (100 m) (CAT5/CAT5E/CAT6)

¹RS-485 = Max bus length 4,000 ft - 24 AWG (1,219 m)
Max length between nodes: 1,640 ft - 24 AWG (500m)

Note: Bond the ground wires of the Signo 25B power supply and the panel power supply.

IMPORTANT: The 19 pigtail wires and Ethernet cable may be cut for wall mounted installation, if required. However, **DO NOT** cut the Ethernet cable shorter than 6 inches (15.24 cm). If the reader is installed outdoors, the pigtails must remain long enough to fit inside the mounting box to meet IP ratings.

Note: Wiring the reader incorrectly may permanently damage the reader.

Note: For readers with Tamper Evident Labels, inspect your reader after first unboxing. If any seals are broken, please contact HID Technical Support.

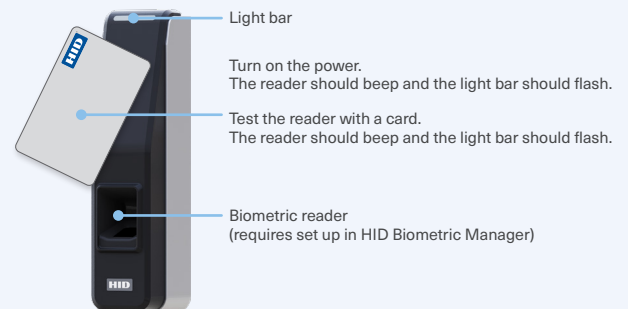
Tamper evident labels (location may vary according to the reader model)

3. Secure the 25B to the mounting plate



1. Insert the reader into the backplate.
2. Latch the reader.
3. Secure the reader to the backplate using the supplied screw.

4. Power and test the reader



5. Download and install HID Biometric Manager



Visit <https://www.hidglobal.com/signo25b> and download the **HID Biometric Manager Installer**. Once the .exe file has downloaded, double-click the file to install HID Biometric Manager, following the on-screen prompts.

For further details, refer to the **HID Signo Biometric Reader/Controller 25B Administration Guide (PLT-04029)**, which is available for download from <https://www.hidglobal.com/signo25b>

Optional features

Open Collector Output – Controls an external device (5 VDC) operating in Host Mode only. Sink 40 mA / Source -1 mA.

Optical Tamper – If connected via the pigtail wires, the optical tamper will sink to ground from the default of 5 VDC when the reader is removed from its backplate.

Relay Output – Typically used to control a strike lock. Three contacts are available on the pigtail wires (common, normally open, and normally closed).

Wiegand Reader Interface – There is Wiegand output available, as marked on the pigtail wires. Configuration options are available within HID Biometric Manager™.

Specifications

Input Voltage (V DC)	12V DC
Standby Current AVG¹	800 mA
Max Current AVG²	1.5 A
Peak Current³	2 A
Operating Temperature	-4° F to 150° F (-20° C to 66° C)

¹ Standby AVG - Root Mean Square current draw without a card in the RF field.

² Maximum AVG - Root Mean Square current draw during continuous card reads. Not evaluated by UL.

³ Peak - highest instantaneous current draw during RF communication.

Regulatory

UL

Connect only to a Listed Access Control / Burglary LPS power supply. These readers are intended to be used with listed (UL294) control equipment. Suitable for outdoor use.

Only Wiegand and Bluetooth communications have been evaluated by UL.

The Open Collector Output has not been evaluated by UL.

RS485 communications has not been evaluated by UL.

Inputs (reserved for future use) have not been evaluated by UL.

The Ethernet connection is for supplemental use; the unit is connected to an Access Control Panel.

The Signo 25B Biometric Reader is compatible with HID Mobile Access® version 3.3.1 and later using mobile devices with BLE version 4.2 and later listed at:

<https://www.hidglobal.com/mobile-access-compatible-devices>

Install in accordance with NFPA70 (NEC) Local Codes, Canadian Electrical Code CSA 22.1, and authorities having jurisdiction. Follow all National and Local Codes.

UL 294 Performance Levels

Model #	Access Control Line Security Level	Destructive Attack Level	Endurance Level	Stand-By Power Level	Conditions
25B	Level I	Level I	Level IV	Level I	

CE Marking

HID Global hereby declares that these proximity readers are in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

Por el presente, HID Global declara que estos lectores de proximidad cumplen con los requisitos esenciales y otras disposiciones relevantes de la Directiva 2014/53/EU.

HID Global déclare par la présente que ces lecteurs à proximité sont conformes aux exigences essentielles et aux autres stipulations pertinentes de la Directive 2014/53/EU.

A HID Global, por meio deste, declara que estes leitores de proximidade estão em conformidade com as exigências essenciais e outras condições da diretiva 2014/53/EU.

HID Global bestätigt hiermit, dass die Leser die wesentlichen Anforderungen und anderen relevanten Bestimmungen der Richtlinie 2014/53/EU erfüllen.

HID Global dichiara che i lettori di prossimità sono conformi ai requisiti essenziali e ad altre misure rilevanti come previsto dalla Direttiva europea 2014/53/EU.

Download copies of the Radio Equipment Directive Declaration of Conformity (DoC) at:

<http://www.hidglobal.com/certifications>

Russia

Дата изготовления указана на маркировке оборудования

Представитель в Российской Федерации	
Название	ООО «Дофин»
Адрес	140573, РФ, Московская обл., Озерский район, с. Бояркино
Контактное лицо	Л.Н. Голубова
Телефон	+7 495 223 6008
e-mail	local.declarant@gmail.com

Israel

יטוחלא הלעפּה ווישרט רוטפּ "ינשם" סיסב לע וניה רישכמב שומישה
יטוחלא הלעפּה ווישרט רוטפּ חוקלא, דכלב חוקלא לש ינאצ שומישה "קוב תלועפב" קר
רחא ינכט יוניש לכ זב תושעל אלו, רישכמה לש תירוקמה הנוטאה ווא תליחלה רוסא

Canada Radio Certification

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Any changes or modifications to this device not explicitly approved by the manufacturer could void your authority to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Taiwan

根據NCC低功率電波輻射性電機管理辦法 規定：

第十二條 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信法規定作業之無線電通信。

低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Korean KCC

	25B
항목	규격
송신주파수	RFID:13.56 MHz
수신주파수	RFID:13.56 MHz
출력	RFID: 10m에서 47.544mV이하
전원	DC 12.0V
전파형식	A1D
발진방식	X-tal
변조방식	RFID: ASK, NFC: GFSK

Singapore

Complies with IMDA Standards DA103548

UAE

TRA REGISTERED NO: ER72356/19 DEALER NO: DA37204/14

Australia and New Zealand



South Africa



TA-2019/920

APPROVED

Brazil

Compliance Statement

Este produto está homologado pela ANATEL, de acordo com os procedimentos regulamentados pela Resolução 242/2000, e atende aos requisitos técnicos aplicados. Para maiores informações, consulte o site da ANATEL - www.anatel.gov.br

This product is homologated at ANATEL according to procedure regulated by Resolution 242/2000, and it complies with the applicable technical requirements. For more information, consult ANATEL website - www.anatel.gov.br

RF Warning Statement

Per Article 6 of Resolution 506, equipment of restricted radiation must carry the following statement in a visible location:

Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.

This equipment operates in secondary character, meaning it does not have the right of protection against harmful interference, even against those the same character, and it cannot cause any interference to systems operating in the primary character.



Equipment
8729
ACC Control READER



General Signaling
Equipment



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For technical support, please visit: <https://support.hidglobal.com>