

HID® Signo™ PIV Reader (40T)

Mechanical Keypad Install Guide



13.56 MHz/125 kHz / 2.4 GHz Contactless and Keypad Reader
SRD Model: 40T

Supplied parts

- HID Signo Reader (1)
- Install Guide (1)
- Flat head/countersunk 0.138-20 x 1.5" self-tapping screws (2) – for installing the reader directly to a wall (no junction box)
- Flat head/countersunk 0.138-32 x 0.375" machine screws (3) – for Imperial (US) junction box installation (2) and attaching the reader to the mounting plate (1)
- Flat head/countersunk M3.5 x 12mm machine screws (2) – for Metric (EU etc) junction box installation
- Flat head/countersunk 0.138-32 x 0.375" security screw (1) – alternative anti-tamper screw for attaching the reader to the mounting plate
- 5-pin terminal connectors, terminal strip models only (2)

Recommended parts (not supplied)

- Cable, 5-10 conductor (Wiegand or Clock-and-Data) or 4 conductor Twisted Pair Over-All Shield and UL approved, Belden 3107A or equivalent (OSDP)
- Certified LPS DC power supply
- Metal or plastic junction box
- Security tool HID 04-0001-03 (for anti-tamper screw)
- Drill with various bits for mounting hardware
- Mounting hardware
- Reader spacer or adapter plates for alternate mounting scenarios. Refer to the **Reader and Credentials How to Order Guide** (PLT-02630) for available options and part numbers at <https://www.hidglobal.com/documents/how-to-order>
- HID® Reader Manager™ app for configuration of the reader (available for download from the App Store or Google Play).

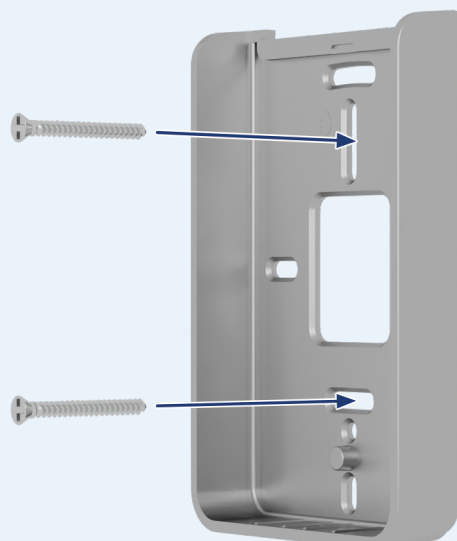


1. Mount the mounting plate



ATTENTION
Observe precautions for handling

IMPORTANT: If you are mounting multiple HID Signo readers to metal stud walls, and the readers are positioned within six feet of each other, refer to the additional installation recommendations in the following Technical Bulletin: <https://www.hidglobal.com/PLT-05722>



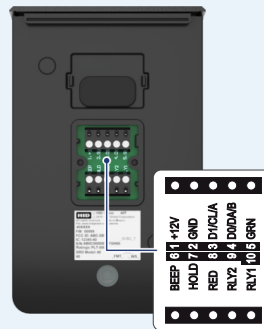
CAUTION: Install the reader on a flat, stable surface. Failure to do so may compromise the IP rating and/or tamper feature. If mounting on or near metal, a spacer is recommended for optimal read performance. Refer to the **Readers and Credentials How to Order Guide** (PLT-02630) for available options and part numbers.

CAUTION: Use the supplied screws to ensure correct fitting and to avoid damaging the reader or mounting plate. HID is not responsible for damage due to use of unapproved mounting hardware.

For Imperial (US):
Use supplied flat head/countersunk 0.138-32 x 0.375" screws.

For Metric (EU etc):
Use supplied flat head/countersunk M3.5 x 12mm screws.

2. Wire the reader



TERMINAL	DESCRIPTION
1	+VDC
2	Ground (RTN)
3	Wiegand Data 1 / Clock / RS485-A*
4	Wiegand Data 0 / Data / RS485-B*
5	LED Input (GRN)
6	Beeper Input
7	Hold Input / LED Input (BLUE)*
8	LED Input (RED)
9	Tamper 2 (RLY2 - 12VDC, 100mA resistive)
10	Tamper 1 (RLY1 - 12VDC, 100mA resistive)

*Dependent upon reader configuration.

Notes:

- Wiring the reader incorrectly may permanently damage the reader.
- Previous iCLASS® readers had reversed RS-485 wiring (P2-7 & P2-6 - A & B). When upgrading to a HID Signo reader, ensure proper connections as defined above.
- Data 0 and Data 1 wires for Wiegand may be reused for OSDP. However, standard Wiegand cable may not meet RS485 twisted pair recommendations.
- For OSDP cable lengths greater than 200 ft (61 m) or EMF interference, install 120Ω +/- 2Ω resistor across RS-485 termination ends.
- For keypad configuration, with the keypad reader operating as 26 bit emulation, enter the facility code followed by # within five seconds of power-up. The facility code must be entered as three digits (for example, for a facility code of 10 enter 0-1-0-#). If unsuccessful, the reader LED displays solid red. Power-cycle the reader and retry entering the facility code.
- HID Signo readers use facility codes between 1-255, and no default is set. Once a facility code is entered, the reader LED displays violet, then solid red. Then, power-cycle the reader. If there are two short beeps after entering a PIN, the reader facility code is not configured. In this case, power-cycle the reader and retry entering the facility code.
- For readers with Tamper Evident Labels, inspect your reader after first unboxing. If any seals are broken, please contact HID Technical Support.

3. Secure the reader to the mounting plate



1. Hook the top of the reader on the top of the mounting plate.
2. Align the bottom of the reader with the bottom of the mounting plate.
3. Secure the reader to the mounting plate using the supplied 0.138-32 x 0.375" screw.

Security/anti-tamper screw:
0.138-32 x 0.375" screw (supplied).

Non-security/standard screw:
0.138-32 x 0.375" screws (supplied).

4. Power and test the reader



Power the reader. The reader will beep and the LED will flash.



Test the reader with a credential. The reader will beep and the LED will flash.

Optional features

Tamper – Enabled by default and activated when the mounting plate is removed. The tamper is normally closed and changes to open circuit between Tamper 1 and Tamper 2 control lines. Tamper 1 and Tamper 2 control lines are interchangeable. Either of these lines can be connected with the reader ground line to reduce the number of cable cores required in the reader cable. Tamper 1 and Tamper 2 are rated 0-12VDC at 100mA.

Hold Input – When asserted, this line either buffers a card (default) or disables a card read until released, as configured.

Specifications

Input Voltage (V DC)	12V DC
Standby Current AVG¹	97 mA
Max Current AVG²	100 mA
Peak Current³	250 mA
Operating Temperature	-30° F to 150° F (-35° C to 66° C)
Humidity Range	93% @ 32° C
Cable Length	<p>Communication Lines</p> <p>Wiegand = 500 ft - 18 AWG (152 m), 300 ft - 20 AWG (91 m)</p> <p>RS-485 = Max bus length: 4,000 ft - 24 AWG (1,219 m) Max length between nodes: 1,640 ft - 24 AWG (500m)</p>
Regulatory Ref Number	40T
Frequency	BLE: 2.4–2.480 GHz, HF: 13.56 MHz, LF: 125 kHz

¹ Standby AVG - RMS current draw without a card in the RF field.

² Maximum AVG - RMS current draw during continuous card reads. Not evaluated by UL.

³ Peak - highest instantaneous current draw during RF communication.

Regulatory

Suitable for use in ULC 60839-11-1 Grade 2 systems when installed with an Access Control System consisting of control panel, monitoring station, and power supply.

UL

Connect only to a Listed Access Control / Burglary power-limited power supply. These readers are intended to be used with listed (UL294/ULC 60839-11-1) control equipment. Suitable for outdoor use.

Only Wiegand, OSDP, and Bluetooth communications have been evaluated by UL.

HID Signo readers are compatible with HID Mobile Access® version 3.0.0 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, 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
40T	Level I	Level I	Level IV	Level I	

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.

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.

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>



Equipment
812 9
ACC Control READER



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