HID

INSTALLATION GUIDE

13.56 MHz / 2.4 GHz Contactless

iCLASS SE® Express R10 Reader

PLT-03314, Rev. A.2

www.hidglobal.com/PLT-03681

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Supplied parts

- iCLASS SE Express R10 Reader (1)
- Installation Guide (1)
- 0.138-20 x 1.5" screws (2) – for installing the reader directly to a wall (no junction box)
- 0.138-32 x 0.375" screws (3) – for Imperial (US) junction box installation (2) and attaching the reader to the back plate (1)
- M3.5 x 12mm screws (2) – for Metric (EU etc) junction box installation
- 0.138-32 x 0.375" security screw (1) – alternative security screw for attaching the reader to the back plate

Recommended parts (not supplied)

- Cable, 5-9 conductor (Wiegand or Clock-and-Data)
- Certified 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 (PN: 6132AKB) when mounting on or near metal or metal junction boxes - see How to Order Guide
- IP65 Mounting gasket (PN: IP65GSKT-R10, 10 pcs per kit), recommended for outdoor installation
- Junction box

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Optional Features

Optical Tamper enabled by default – Once activated, when the mounting plate is removed, the optical tamper will open the circuit between Tamper#1 and Tamper#2 reader 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. The tamper control lines can operate within 0-12 VDC and 0-100 mA.

Configuration – The reader can be modified to meet the specific requirements of an installation. Configuration options include; audio visual, and CSN outputs. See the HID Reader Manager™ solution on www.hidglobal.com for further details.

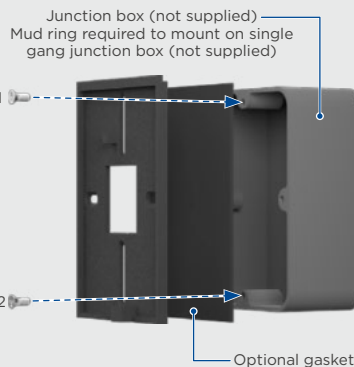## 1 Mount the backplate

ATTENTION
Observe precautions for handling ELECTROSTATIC SENSITIVE DEVICES

Mounting directly to the wall/ mullion mount

Use supplied 0.138-20 x 1.5" screws

Mounting to a junction box

Junction box (not supplied)
Mud ring required to mount on single gang junction box (not supplied)

Optional gasket

For Imperial (US):
Use supplied 0.138-32 x 0.375" screws

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

2 Wire the reader

9"
(0.23m)

PIGTAIL	DESCRIPTION
Yellow	Beeper Input
Orange	LED Input (GRN)
Black	Ground (RTN)
Red	+VDC
Drain	Unused
Violet	*Tamper #1
Violet/White	*Tamper #2
White	Wiegand Data 1
Green	Wiegand Data 0

* Tamper Output. When activated or when the reader is unpowered, the circuit between Tamper#1 and Tamper#2 reader control lines will open.

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

3 Secure the reader to the backplate

1. Align the top of the reader with the top of the backplate.
2. Hook the top of the reader on the top of the backplate.
3. Align the bottom of reader with the bottom of the backplate.
4. Secure the reader to the backplate using one of the supplied screws:

    Security/non-tamper screw: 0.138-32 x 0.375" screw (supplied)
    Non-security/standard screw: 0.138-32 x 0.375" screw (supplied)

4 Power and test the reader

Turn on the power.
The reader should beep and the light bar should flash.

Test the reader with a card.
The reader should beep and the light bar should flash.

Specifications

INPUT VOLTAGE (VDC)	12 VDC
CURRENT	
STANDBY AVG[1]	46 mA
MAX AVG[2]	60 mA
PEAK[3]	250 mA
OPERATING TEMPERATURE	-30° F to 150° F (-35° C to 66° C)
CABLE LENGTH[4]	**Communication Lines (Wiegand)** 22 AWG: 500 ft (152 m)
REGULATORY REF NUMBER	R10FKNN
FREQUENCY	BLE: 2.4 - 2.480 GHz, HF: 13.56 MHz
FCC & IC IDS	FCC-ID: JQ6-iCLASSR10F, IC-ID: 2236B-ICLASSR10F

[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.
[4] Wiegand Cable Lengths: 500 ft (152 m) 22 AWG @ STANDBY AVG 46 mA, MAX AVG 62.5 mA, PEAK 250 mA

Regulatory

UL

Connect only to a Listed Access Control / Burglary power-limited 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.

iCLASS SE 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
R10F	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 (RED) Declaration of Conformity (DoC) at: http://www.hidglobal.com/certifications

Australia and New Zealand

E4662

CE
E4662
SECURITY
UL LISTED Equipment 8T2 9 ACC Control READER
c UL LISTED General Signaling Equipment

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