



INSTALLATION GUIDE

iCLASS SE® / multiCLASS SE®

13.56 MHz Contactless

RBN25FNK

Eureka Biometric Reader / Controller

PLT-04027, Rev. A.0



www.hidglobal.com/plt-04027

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Supplied parts

- Eureka Biometric Reader / Controller
- Installation Guide
- Self-tapping screw for locking the reader to its baseplate.

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Recommended parts (not supplied)

- Cable, 5-9 conductor (Wiegand or Clock-and-Data), 4 conductor Twisted Pair Over-All Shield and UL Approved Belden3107A or equivalent (OSDP)
- Drill with various bits for mounting hardware.
- Mounting hardware
- Certified DC power supply
- Metal or plastic junction box

Optional Features

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

Optical Tamper (enabled **by default?**) – This can be configured with HID Biometric Manager. If activated, when the reader is removed from its mounting base, the optical tamper will sink to ground from its default 5 VDC. Contact HID Technical Support for Optical Tamper options.

Relay output – Typically used to control a strike lock, three contacts (common, normally open and normally closed) are available on the pigtail bundle. Relay operation may be configured with HID Biometric Manager.

Wiegand Reader Interface – this includes a hold input, which may configured with HID Biometric Manager.

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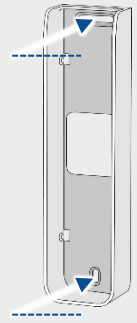
PLT-04027 A.0

1. Use the template to mark up and drill the mounting holes

2. Mount the backplate

Select two screws that are suitable for the holes in the mounting material.

Fasten the backing plate to the mounting surface.



3. Wire the reader

Tamper sensor window and diagnostic LED indicators

Factory reset contacts are under this label

18" (0.46 m)

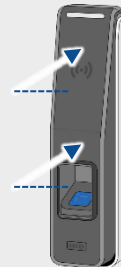


Function Group	Wire Colour	Function	AWG	Max Length
RS-485	Red/Green	RS-485 A	22	1000 m
	Tan	RS-485 B		
	Black	RS-485 Ground		
Relay	White/Grey	Relay – Common	22	150 m
	White/Yellow	Relay – Normally Open		
	White/Red	Relay – Normally Closed		
Inputs	Pink	REX Input / TTL Output	22	150 m
	Grey	DPS Input/ TTL Output		
	Black	IO Ground		
Wiegand Reader*	White	Wiegand D0	22	150 m
	Green	Wiegand D1		
	Brown	Wiegand RED		
	Orange	Wiegand Green		
	Yellow	Wiegand BUZ		
	Blue	Wiegand Hold		
	Violet	Wiegand TPR		
DC Power	Black	Wiegand Ground	22	150 m
	Red	Power +12V		
	Black	Power Ground		

Network	Connector	Function	Max Length
	RJ45 socket	Ethernet	100 m (CAT6)

4. Secure the reader to the backplate

A Insert the reader



B Latch the reader



C Install locking screw



6. Power up and test the reader

LED

On presenting a tag, the LED will flash and the buzzer will beep

On presenting a finger, the LED will flash and the buzzer will beep



Specifications

Input Voltage	Current			Operating Temperature -30°F to 150 °F (-35°C to 65°C)
	Standby AVG	Max AVG	Peak	
TBD	TBD	TBD	TBD	

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.
 (Wiegand Cable 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. Install in accordance with NFPA70 (NEC) Local Codes, and authorities having jurisdiction. Follow all National and Local Codes.

UL 294 Performance Levels

Access Control Line Security Level	Destructive Attack Level	Endurance Level	Stand-by Pwr Level	Conditions
Level I	Level I	Level IV	Level I	

FCC

This device complies with part 15, subpart C, 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. These limits are designed to provide reasonable protection against harmful interference. This equipment generate, uses and can radiate RF energy and if not installed and used in accordance with instruction, may cause harmful interference. Possible solution include: relocate the device, increase separation between equipment, power equipment separately, consult with your dealer. **CAUTION:** Any changes or modifications to this device not explicitly approved by HID Global could void your authority to operate this equipment.

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>

Taiwan

According to "Administrative Regulations on Low Power Radio Waves Radiated Devices" Without permission granted by the NCC, any company, enterprise, or user is not allowed to change frequency, enhance transmitting power or alter original characteristic as well as performance to an approved low power radio-frequency device. The low power radiofrequency devices shall not influence aircraft security and interfere legal communications; If found, the user shall cease operating immediately until no interference is achieved. The said legal communications means radio communications is operated in compliance with the Telecommunications Act. The low power radio-frequency devices must be susceptible with the interference from legal communications or ISM radio wave radiated devices.

Korean KCC

RBN25GNK	
항목	규격
송신주파수	RFID:13.56 MHz, BLE 2.4 -2.48GHz
수신주파수	RFID:13.56 MHz, BLE 2.4 -2.48GHz
출력	RFID: 10m에서 47.544mv이하
전원	DC 12.0V
전파형식	A1D
발진방식	X-tal
변조방식	RFID: ASK, NFC: GFSK

Russia EAC

Дата изготовления указана на маркировке оборудования

Представитель в Российской Федерации	
0.762 mm	ООО «Дюфин»
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

Japan MIC

“この装置は総務省の型式指定を受けています。”
 (総務省指定番号は第AC-xxxxx号です)
 本製品は電波を使用したRFID 機器の読み取り・書き込み装置です。
 そのため使用する用途・場所によっては、医療機器に影響を与える恐れがあります

Japan Giteki for BLE



NotoSansCJKjp-Regular

Israel (Mobile Ready RP10)

יטוחלא הלעפה ווישרמ רוטפו "ינשמ" סיסב לע וניה רישכמב שומישה.
 יטוחלא הלעפה ווישרמ רוטפ חוקלה, דבלב חוקלה לש ימצע שמושל יקזב תלועפבי קר.
 חרא ינכט יוניש לכ וב תושעל אלו, רישכמה לש תירוקמה הגטנא תא קילחהל רוטא.

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,



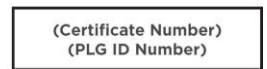
UAE



Singapore



Indonesia



South Africa



Australia and New Zealand



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