



# iCLASS SE® Biometric/ iCLASS SE Display Reader

RKCL40, RPKCL40, RKCLB40  
SRD MODEL: RPKCL40E, RKCLB40E  
PLT-02738 A.0

## Parts

- 1 - Reader and base plate assembly
- 1 - Installation guide
- 2 - Terminal connector
- 4 - M3.5 mm x 12 mm Phillips machine screw
- 4 - #6-32 x .375" Phillips self-tapping machine screw
- 4 - #6 x 1.5" Phillips sheet metal screw
- 3 - #6-32 x .4375" Spanner security screw, anti-tamper (black)
- 3 - #6-32 x .4375 Phillips security screw (black)
- 1 - Mounting Gasket

### Recommended

- Cable, 6 conductor, 22 or 24 AWG [65 mm or 51 mm] Twisted Pair, Over-All Shield (Belden 3108A or equivalent) - RS-485 + power
- Cable, 6 to 9 conductor, 22 or 24 AWG [65 mm or 51 mm] Over-All Shield, (Alpha 1296C or equivalent) - Wiegand + power
- DC power supply
- Metal or plastic double-gang junction box
- Reader spacer when using metal junction boxes - see How to Order Guide
- Security tool (for spanner security screw, anti-tamper) HID 04-0001-03

## Specifications

PRODUCT	BASE PART NUMBER	INPUT VOLTAGE (VDC)	CURRENT			OPERATING TEMPERATURE	CABLE LENGTH	UL REF NUMBER	SRD Model
			Standby AVG <sup>1</sup>	Maximum AVG <sup>2</sup>	PEAK <sup>3</sup>				
RKCL40	923N	12VDC	150mA	185mA	250mA	-4° to 149° F (-20° to 65° C)	<b>Wiegand and RS-485</b> 500 ft - 22 AWG (152 m) 300 ft - 24 AWG (91 m)	RPKCL40E <sub>x<sub>1</sub>x<sub>2</sub>x<sub>3</sub></sub>	RPKCL40E
RPKCL40	923P								
RKCLB40	924N		165mA	215mA	275mA	14° to 122° F (-10° to 50° C)			

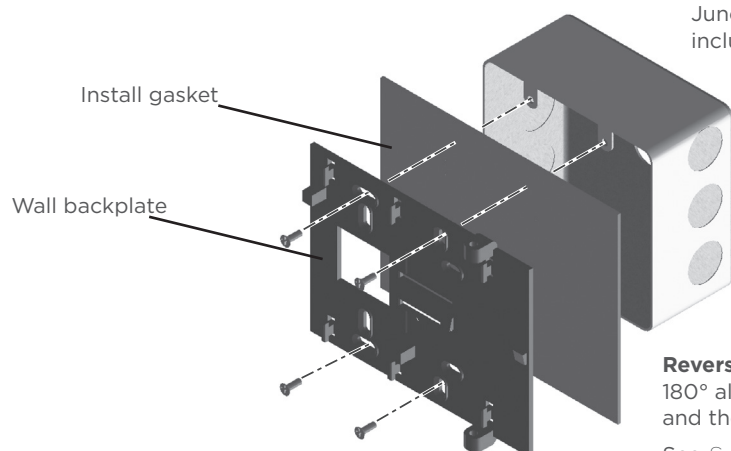
<sup>1</sup> Standby AVG - RMS current draw without a card in the RF field.  
<sup>2</sup> Maximum AVG - RMS current draw during continuous PIV card reads. Not evaluated by UL.  
<sup>3</sup> Peak - highest instantaneous current draw during RF communication.

**UL Reference Number Deciphering**  
<sub>x<sub>1</sub></sub> Reader Colors: K = Black,  
<sub>x<sub>2</sub></sub> Wiring: T = Terminal  
<sub>x<sub>3</sub></sub> Communications: R = Module

# Installation

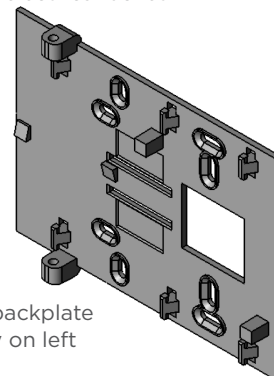
## 1 Mounting

Attach Backplate and Mounting Gasket to Junction Box.



Junction box not included.

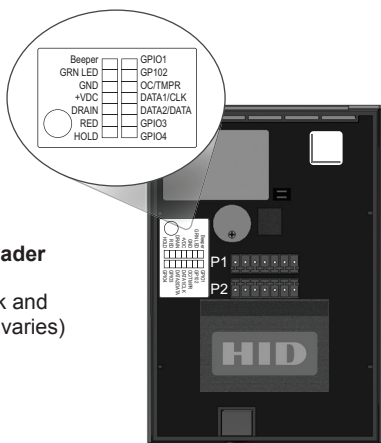
Mounting holes for US double-gang electrical boxes.



**Reverse Configuration** Rotating the backplate 180° allows for placing the LCD display on left and the reader on right.

See *Section B Alternate Reader Assembly* for instructions, before proceeding to Section 2: Wiring.

## 2 Wiring



**Terminal Reader**  
(Terminal block and module position varies)



**ATTENTION**  
Observe precautions for handling  
ELECTROSTATIC SENSITIVE DEVICES

**Note:** Previous iCLASS readers had reversed RS-485 wiring ( P2-7 & P2-6 - A & B). When upgrading, ensure proper connections as defined below.

Pigtail	Terminal	Description	Pigtail	Terminal	Description
Yellow	P1-1	Beeper Input	Red / Green	P2-7	GPIO1 (RS232-T / RS485-FDX/HDX-A)
Orange	P1-2	LED Input (GRN)	Tan	P2-6	GPIO2 (RS232-R / RS485-FDX/HDX-B)
Black	P1-3	Ground (RTN)	Violet	P2-5	*Open Collector Output / Tamper
Red	P1-4	+VDC	White	P2-4	**Wiegand Data 1 / Clock
Drain	P1-5	Unused	Green	P2-3	**Wiegand Data 0 / Data
Brown	P1-6	LED Input (RED)	Pink	P2-2	GPIO3 (RS485-FDX-Z)
Blue	P1-7	Hold Input	Gray	P2-1	GPIO4 (RS485-FDX-Y)

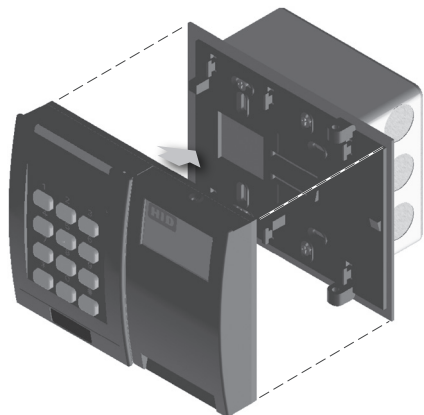
\*Tamper Output - When activated, output synchronizes to ground (default).

\*\*Dependent upon reader configuration. See the HTOG for Wiegand and Clock-in-Data configurations.

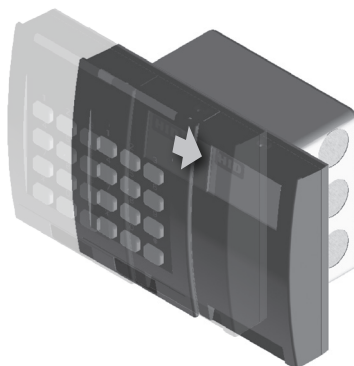
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### 3 Attach to Backplate



Mount the Reader Assembly (Reader, LCD Assembly, and reader backplate) to the wall backplate.



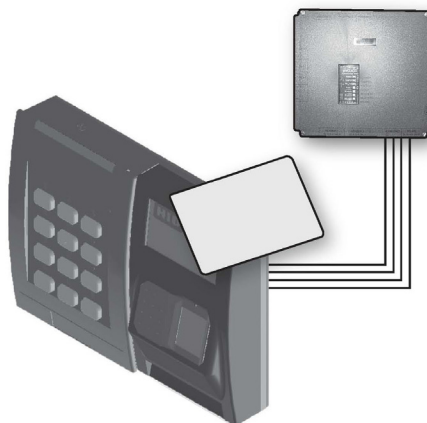
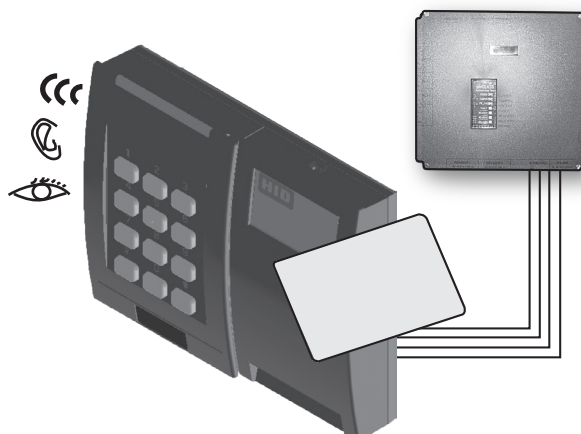
**Standard Configuration:** Slide Reader Assembly towards the right to lock.

**Alternate Configuration:** Slide Reader Assembly to the left to lock.



Install Security screws.

### 4 Power & Testing



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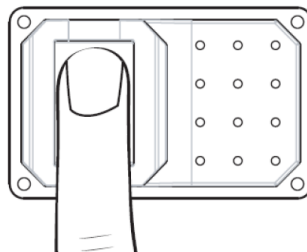
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# A Biometric Reader

## Proper Usage

Ensure a good quality Contact:

- Do not press too hard
- Do not move during image acquisition
- Leave your finger on the sensor at least 2 seconds
- Do not slide or roll your finger across the sensor



## Cleaning

For optimum performance, it is recommended that the user clean the bio-reader periodically.

The use of a dry cloth is recommended to clean the acquisition surface.

**Caution: Acidic liquids, alcohol or abrasive materials are prohibited.**

In order not to scratch the surface, remove all dust and residue with gentle movements.



# B Credential Presentation Best Practices

To ensure a successful read of a card:

1. Hold card between the thumb and index finger.
2. Present the card so that the index finger creates a spacing between the card and the reader face.  
Do not place the card flat on the reader.
3. Place the card parallel to the reader form factor. Do not angle to the right or left
4. Place the card parallel to the reader face. Do not angle the card up or down from the reader face.



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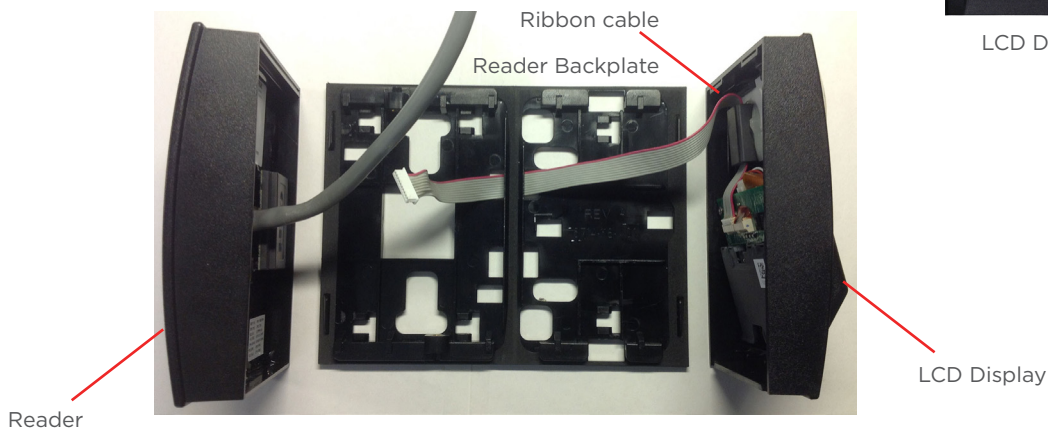
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# E Alternate Reader Assembly

The following steps reconfigure the reader assembly to position the LCD Display component on the left side of the assembly.

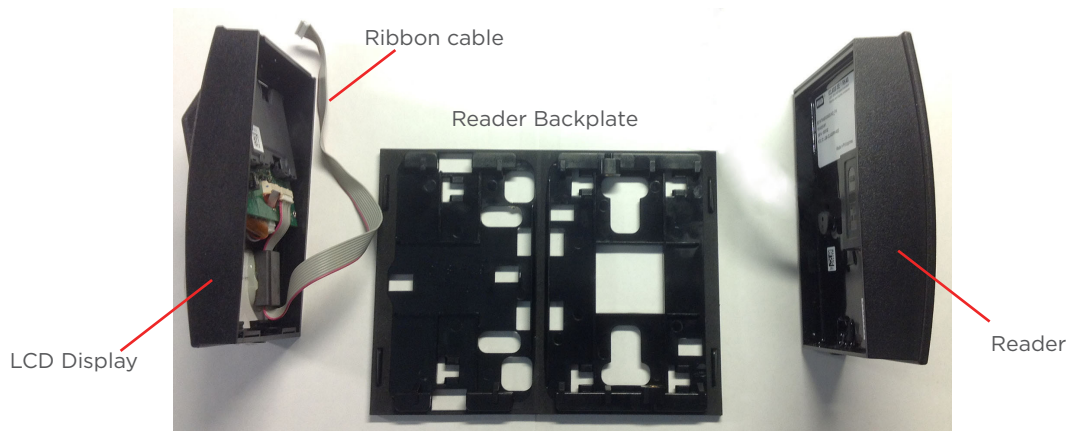
1. Disassemble the Reader.

- Remove the Reader from the backplate.
- Carefully unplug the ribbon cable from the module in the back of the Reader. **Caution: Do not pull on the ribbon cable as this may damage the connection to the connector.**
- Remove the LCD Display from the backplate.
- Gently pull the ribbon cable through the backplate.



2. Reassemble with the LCD Display on the left side of the assembly.

- Rotate the backplate so that the large cutout for the power cable is on the left
- Gently route the ribbon cable back through the backplate slots, as shown below
- Plug the ribbon cable back into the module (back of Reader) and ensure module is fully seated into the reader
- Attach the LCD Display to the backplate (this must be installed first, as the Reader will fit slightly over the LCD Display)
- Attach the Reader to the backplate (power cable must be threaded through the large square cutout on the backplate)
- Return to Section 2.



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## Regulatory

The final product, containing the modular transmitter must be labeled with its own FCC ID and IC ID. If the FCC & IC ID is not visible, when the module is installed inside another device, then the final assembly label must contain the FCC and IC ID numbers with a statement such as follows: "Contains Transmitter Module with FCC ID JQ6-ICLASSBTM and IC ID 2236B-ICLASSBTM".

### 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 RS-485 communications have been evaluated by UL.

### 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.**

Indala Prox products RP10EL, RP15EL, RP30EL, RP40EL and RPK40EL are certified for FCC, Canada Radio Certification and CE Marking only.

### 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 1999/5/EC.

Por el presente, HID Global declara que estos lectores de proximidad cumplen con los requisitos esenciales y otras disposiciones relevantes de la Directiva 1999/5/EC.

HID Global déclare par la présente que ces lecteurs à proximité sont conformes aux exigences essentielles et aux autres stipulations pertinentes de la Directive 1999/5/CE.

A HID Global, por meio deste, declara que estes leitores de proximidade estão em conformidade com as exigências essenciais e outras condições da diretiva 1999/5/EC.

HID Global bestätigt hiermit, dass die Leser die wesentlichen Anforderungen und anderen relevanten Bestimmungen der Richtlinie 1999/5/EG erfüllen.

HID Global dichiara che i lettori di prossimità sono conformi ai requisiti essenziali e ad altre misure rilevanti come previsto dalla Direttiva europea 1999/5/EC.

Download copies of the R&TTE Declaration of Conformity (DoC) at <http://www.hidglobal.com/certifications>.

### 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](http://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](http://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.

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**iCLASS Keypad Readers****FOTO SELO ANATEL****Fabricante: HID Global Corporation****Modelo: iCLASS SE RK40E, multiCLASS RPK40E**

Este produto esta aprovada pela Anatel, de acordo com os procedimentos regulamentados pela Resolução nº 242/2000 e atende aos requisitos técnicos aplicados.



“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”

**iCLASS Non-Keypad Readers****FOTO SELO ANATEL****Fabricante: HID Global Corporation****Modelo: iCLASS SE R10, multiCLASS RP10E, multiCLASS RP30E****iCLASS SE R40E, multiCLASS RP15E, multiCLASS RP40E**

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“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”

**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 a approved low power radio-frequency devices. The low power radio-frequency 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.

**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-xxxx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

**SINGAPORE**

Complies with  
IDA Standards  
DA103548

**KOREAN KCC**

	R10E, R15E, R30E, and R40E RK40E	RP10E, RP15E, RP30E and RP40E RPK40E
항목	규격	
송신주파수	RFID:13.56 MHz	RFID:13.5607 MHz, LPD:125 KHz
수신주파수	RFID:13.56 MHz	RFID:13.56 MHz, LPD:125 KHz
출력	RFID: 10m에서 47.544mv이하	RFID: 10m에서 47.544mv이하. LPD:3 m 거리에서 500 $\mu$ V/m이하
전원	DC 16.0V	
전파형식	A1D	
발전방식	X-tal	X-tal (13.56MHz) Resonator(125kHz)
변조방식	AM	AM(13.56MHz), FSK(125kHz)

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