

# iCLASS SE® Biometric & Display Readers



## DISPLAY READERS FEATURING MULTI-FACTOR AUTHENTICATION CAPABILITIES

- **Powerfully Secure** – Supports breakthrough Seos® and iCLASS® card technologies and provides best practice standards for multi-layered authentication between card and reader.
- **Convenient** – Built-in field enrollment capabilities supports both access control verification and biometric templates.
- **More Private** - Fingerprint templates are stored on smart cards to alleviate privacy and database management concerns. Open Supervised Device Protocol (OSDP) protects the full range of the communication from reader to controller.

Compatible with bioCLASS and the interoperable ANSI-378 biometric template standard.

The iCLASS SE® Biometric and iCLASS SE Display Readers are capable of supporting up to three-factor authentication and user interaction. These display readers can be configured to support card/biometric fingerprint, card/PIN or card/fingerprint/PIN. Both have advanced security features and optionally support OSDP, to protect communications from reader to controller.

The iCLASS SE Biometric reader allows for seamless migration from bioCLASS® readers and supports the most recent biometric template standards. Biometric template storage

on the smart card reduces individual privacy and safety concerns, while ensuring faster throughput and easier system management. Built-in field enrollment capabilities provide a convenient enrollment experience.

The LCD display supports display of text via OSDP commands (additional software and hardware required). This enables Physical Access Control System (PACS) software and controller vendors to offer applications such as customized employee communications, time and attendance and cashless vending.



## SPECIFICATIONS

Model Name	RKLB40	RKL40 <sup>5</sup>	RPKL40 <sup>5</sup>
<b>Base Part Number</b>	928N	929N	929P
<b>13.56 MHz Credential Compatibility</b>	<ul style="list-style-type: none"> <li>iCLASS® Seos® 8kB (iCLASS® Seos® 16kB NOT COMPATIBLE)</li> <li>Standard iCLASS® 16-32k bit Access Control Application (iCLASS SE and 2k bit Standard iCLASS NOT COMPATIBLE)</li> </ul>	<ul style="list-style-type: none"> <li>Secure Identity Object* (SIO*) on iCLASS® Seos®, iCLASS SE*/SR, MIFARE® DESFire® EV1 and MIFARE Classic</li> <li>MIFARE and MIFARE DESFire EV1 custom data models               <ul style="list-style-type: none"> <li>standard iCLASS Access Control Application</li> </ul> </li> <li>ISO14443A (MIFARE) CSN, ISO14443B CSN, ISO15693 CSN               <ul style="list-style-type: none"> <li>FeliCa 4 CSN, CEPAS4 CSN or CAN</li> </ul> </li> </ul>	
<b>125kHz Credential Compatibility</b>	N/A	N/A	HID Prox, AWI, EM4102
<b>TYPICAL CONTACTLESS READ RANGE<sup>1</sup> - Single Technology ID-1 Cards</b>			
<b>iCLASS® Seos™</b>	1.2" (3 cm)		1.6" (4 cm)
<b>iCLASS®</b>	4.7" (12 cm)		4.7" (12 cm)
<b>DESFire® EV1 SE™</b>	N/A		1.6" (4 cm)
<b>MIFARE® Classic SE™</b>	N/A		1.6" (4 cm)
<b>HID Prox / AWID</b>		N/A	2.8" (7 cm)
<b>EM4102</b>		N/A	3.1" (8 cm)
<b>Mounting</b>	Double-gang size; designed to mount on double (preferable for stable wall mount) or single-gang switch box		
<b>Color</b>	Black		
<b>Keypad</b>	Yes (illuminated, 4 x 3)		
<b>Display</b>	Yes (illuminated)		
<b>Dimensions</b>	4.8" x 6.1" x 1.2" (12.2 cm x 15.6 cm x 3.0 cm)		
<b>Product Weight (Terminal Strip)</b>	16.0 oz (454 g)	12.9 oz (366 g)	13.0 oz (368 g)
<b>Operating Voltage Range</b>	+12VDC		
<b>Current Draw - Normal Standby Current<sup>2</sup></b>	195mA		170mA
<b>Current Draw - Maximum Average<sup>3</sup></b>	255mA		185mA
<b>Current Draw - Peak<sup>4</sup></b>	320mA		250mA
<b>Operating Temperature</b>	14° to 122° F (-10° to 50° C)		-4°F to 149°F (-20°C to 65°C)
<b>Operating Humidity</b>	5% to 95% relative humidity non-condensing		
<b>Storage Temperature</b>	-67° to 185° F (-55° to 85° C)		
<b>Environmental Rating</b>	UL 294 and IP55 indoor / outdoor ratings		
<b>Fingerprint Biometric Sensor Type</b>	Optical		N/A
<b>Biometric Authentication Compatibility</b>	<ul style="list-style-type: none"> <li>ANSI-378 template stored on iCLASS Seos credential and verified on reader</li> <li>bioCLASS® template stored on standard iCLASS credential and verified on reader (6180A enroller template is NOT COMPATIBLE)</li> </ul>		N/A
<b>Language Support</b>	English, French, German, Spanish (International), Russian, Portuguese (Brazilian), Italian, Chinese (Simplified), Japanese, Korean		
<b>Communications</b>	Wiegand, Clock-and-Data, Open Supervised Device Protocol (OSPD) via RS485 <sup>5</sup> (OSDP BIOREAD & BIOMATCH command and pivCLASS Embedded Authentication - NOT SUPPORTED)		
<b>Panel Connection</b>	Terminal Strip		
<b>Certifications</b>	UL294/cUL (US), FCC Certification (US), IC (Canada), CE (EU), RCM (Australia, New Zealand), SRRC (China), KCC (Korea), NCC (Taiwan), iDA (Singapore), RoHS, MIC (Japan), WPC (India), ANRT (Morocco)		
<b>Crypto Processor Hardware Common Criteria Rating</b>	EAL5+		
<b>Patents</b>	<a href="http://www.hidglobal.com/patents">www.hidglobal.com/patents</a>		
<b>Housing Material</b>	UL94 Polycarbonate		
<b>UL Ref Number</b>	RKLB40E		RPKL40E
<b>SRD &amp; WPC Model</b>	RKCLB40E		RPKCL40E
<b>Warranty</b>	Warranted against defects in materials and workmanship for one year (see complete warranty policy for details)		

<sup>1</sup> Read range listed is statistical mean rounded to nearest whole centimeter. HID Global testing occurs in open air. Some environmental conditions, including metallic mounting surface, can significantly degrade read range and performance; plastic or ferrite spacers are recommended to improve performance on metallic mounting surfaces.<sup>1</sup>

<sup>2</sup> Standby AVG - RMS current draw without a card in the RF field.

<sup>3</sup> Maximum AVG - RMS current draw during continuous card reads. Not evaluated by UL.

<sup>4</sup> Peak - highest instantaneous current draw during RF communication.

<sup>5</sup> Coming soon, contact your HID Sales Representative.

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