



The blueLINE™ series of credential readers combines proven technologies of the past with the emerging technologies of today. Through one product line a customer can maximize the benefits of all credentials complying to ISO-14443 A & B, MiFARE, DESFire (EV1 & EV2), Fingerprint, OSDP version 1 & 2, Ultra-High Security Credentials (UHSC), Mobile Credentials, NFC and Bluetooth to create a customizable security solution that's right for their infrastructure. blueLINE™ has an ergonomic, aesthetically pleasing design that fits all solutions from the smallest user to the largest corporation. blueLINE™ reads up to 128 bit cards.

The blueLINE™ series of readers are ergonomically designed with tri-colored LED's and backlighting for dim environments. Single gang, mullion, and European box sizes are available. See your dealer for a complete parts list.

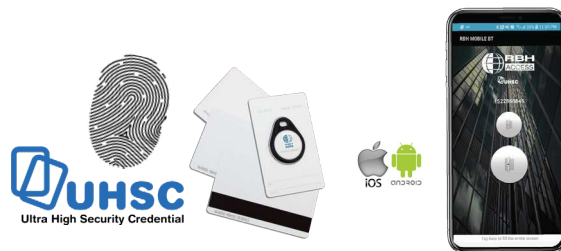
The RBH-BFR350 series is a biometric reader designed and completely integrated into all of RBH security software platforms for quick and easy biometric enrollment. For fingerprint only or credential and fingerprint validation the BFR series is right for any application.

Readers in the blueLINE™ series are capable of using DESFire (EV1 & EV2) credentials for the highest of security standards. Communication to controllers can be using standard Wiegand or OSDP version 1 & 2 for increased security where maximum integrity and tamper conditions are required.

Introducing UHSC or Ultra High Security Credentials. All blueLINE™ readers use UHSC via NFC or Bluetooth on respective devices. UHSC are a free virtual credential for Android and IOS where the App creates a virtual credential on the device. A Manufacturer does NOT manufacture or track your credential. This removes the possibility of a virtual credential hack or duplication of virtual credential. End users are not dependent on manufacturers shipping or managing credentials making UHSC a much higher form of security and at the same time extremely economical.

RBH blueLINE™ Features:



- Metal mount readers
- Ergonomic design
- Backlit keypads
- Tri-color LED indication
- OSDP (version 1 & 2)
- Wiegand up to 128 bit
- FREE virtual credentials (UHSC)







RBH blueLINE™ Technologies:

- All credentials complying to ISO-14443 A & B
- MiFARE (13.56 MHz)
- DESFire (EV1 & EV2) (13.56 MHz)
- NFC
- Bluetooth
- Fingerprint
- UHSC virtual credentials



Reader/Keypad Specifications** ^					
Reader	RBH-N86-S	RBH-M45-S	RBH-NK86-S	RBH-N86-S-O	RBH-NK86-S-O
	RBH-N86-DNB-S*	RBH-M45-DNB-S*	RBH-NK86-DNB-S*	RBH-N86-DNB-S-O*	RBH-NK86-DNB-S-O*
	RBH-N86-D	RBH-M45-D	RBH-NK86-D	RBH-N86-D-O	RBH-NK86-D-O
	RBH-N86-DNB-D*	RBH-M45-DNB-D*	RBH-NK86-DNB-D*	RBH-N86-DNB-D-O*	RBH-NK86-DNB-D-O*
Mounting / Type	Single Gang CSN Reader	Mullion CSN Reader	Single Gang CSN Reader with Keypad	Single Gang CSN Reader	Single Gang CSN Reader with Keypad
	Single Gang Sector Reader	Mullion Sector Reader	Single Gang Sector Reader with Keypad	Single Gang Sector Reader	Single Gang Sector Reader with Keypad
Technology	All credentials complying to ISO-14443 A & B: DESFire (EV1 & EV2) / Bluetooth* / NFC*				
Frequency	13.56 MHz / Bluetooth*				
Dimensions	4.75" X 3.125" X .75" (119mm X 80mm X 20mm)	3.875" X 2" x .75" (100mm X 50mm X 20mm)	4.75" X 3.125" X .75" (119mm X 80mm X 20mm)		
Housing	ABS				
Weight	5.29 oz. (150 g)	4.06 oz. (115 g)	5.29 oz. (150 g)		
Power	12 - 15 VDC @ 100 mA				
Read Range	.8 " x 7.8 " (2 cm - 20 cm) dependent on credential				
Communication	Wiegand			(OSDP ver. 1&2)	
Connector	18 inch Pigtail				
Cabling Wiegand	500' (152m) max, 18 - 22 AWG, 6-7 conductor shielded cable			RS485: 4000' (1219m) max, 20 – 22 AWG, 1 twisted pair, shielded, stranded Power: 2000' (610m) max, 18 – 22 AWG 2 conductor stranded	
Operating Temp.	-40° F to +158° F (-40° C to + 70° C)				
Color	Black				
Annunciation	Tri-color LED, Built-in Piezo sounder				
Warranty	5 Years				
Certifications	FC CE   Pending				
Rating with DNB	IP-65				
Rating without DNB	IP-67				



Fingerprint Reader/Keypad Specifications** ^		
Reader	RBH-BFR-350-DNB-S*	RBH-BFR-350-DNB-D*
Type	Fingerprint Reader with CSN Card Read	Fingerprint Reader with Sector Card Read
Technology	DESFire (EV1 & EV2) / Bluetooth / NFC	
Frequency	13.56 MHz / Bluetooth	
PC to Reader / Panel to Reader	Ethernet (CAT5) / Wiegand (6 Cond. Shielded 18 AWG)	
Dimensions	5.7" x 4.92" x 1.3" (145 x 125 x 33 mm)	
Templates / Users	9500 / 4750	
Weight	12 oz. (340 g)	
Power	12 - 15 VDC @ 1A	
Read Range	2 cm - 20 cm dependent on credential	
Communication	Wiegand, TCP/IP	
Operating Temperature	32° F to +131° F (0° C to +55° C) / 0 - 95% RH	
Color	Black	
Authentication Speed	≤ 4 sec	
Authentication Modes	Credential, Finger, PIN Credential + Finger, PIN+Finger, Credential+PIN	
Warranty	1 year	
Certifications	    Pending	
Rating	IP-65	

* While all models feature MiFARE/DESFire technology, only model numbers containing DNB feature Bluetooth and NFC technology

** For a full list of blueLINE part numbers please contact your sales representative.

^ Specifications are subject to change without notice.