



**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 MiFARE, DESFire (EV1 & EV2), Fingerprint, OSDP, Ultra-High Security Credential (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.

**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 1 or v2 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
- FREE virtual credentials (UHSC)



#### RBH blueLINE™ Technologies:

- MiFARE (13.56 MHz)
- DESFire (EV1 & EV2) (13.56 MHz)
- NFC
- Bluetooth
- Fingerprint
- UHSC virtual credentials



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## RBH Blueline Readers Specifications\* ^



| Reader/Keypad Specifications |                                                            |                                          |                                             |                                                                                                                                        |                                       |
|------------------------------|------------------------------------------------------------|------------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Reader                       | RBH-N86-DNB-S                                              | RBH-M45-DNB-S                            | RBH-NK86-DNB-S                              | RBH-N86-DNB-S-O                                                                                                                        | RBH-NK86-DNB-S-O                      |
|                              | RBH-N86-DNB-D                                              | RBH-M45-DNB-D                            | RBH-NK86-DNB-D                              | Single Gang CSN Reader                                                                                                                 | Single Gang CSN Reader with Keypad    |
| Type                         | Single Gang CSN Reader                                     | Mullion CSN Reader                       | Single Gang CSN Reader with Keypad          | Single Gang Sector Reader                                                                                                              | Single Gang Sector 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                   | DESFire (EV1 & EV2) / Bluetooth / NFC                      |                                          |                                             |                                                                                                                                        |                                       |
| Frequency                    | 13.56 MHz                                                  |                                          |                                             |                                                                                                                                        |                                       |
| Mounting                     | Wall Mount                                                 |                                          |                                             |                                                                                                                                        |                                       |
| 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)                            |                                                                                                                                        |                                       |
| Voltage                      | DC 9~15 V                                                  |                                          |                                             |                                                                                                                                        |                                       |
| Current Draw                 | 80 mA @ 12 VDC                                             |                                          |                                             |                                                                                                                                        |                                       |
| 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<br>Power: 2000' (610m) max, 18 – 22 AWG 2 conductor stranded |                                       |
| Operating Temp.              | -40º F to +158º F (-40º C to + 70º C)                      |                                          |                                             |                                                                                                                                        |                                       |
| Color                        | Black                                                      |                                          |                                             |                                                                                                                                        |                                       |
| Audio Tone                   | Built-in Piezo sounder                                     |                                          |                                             |                                                                                                                                        |                                       |
| Visual Annunciation          | Tri-color LED                                              |                                          |                                             |                                                                                                                                        |                                       |
| Warranty                     | 5 Years                                                    |                                          |                                             |                                                                                                                                        |                                       |
| Certifications               | FCC                                                        |                                          |                                             |                                                                                                                                        |                                       |
| Rating                       | IP-68                                                      |                                          |                                             |                                                                                                                                        |                                       |

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

^ Specifications are subject to change without notice.

| 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 |
| Integrated Reader Technology             | DESFire (EV1 & EV2) / Bluetooth / NFC                                      |                                          |
| Frequency                                | 13.56 MHz                                                                  |                                          |
| 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)                                                             |                                          |
| Voltage                                  | DC 9~24 V                                                                  |                                          |
| Current Draw                             | 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<br>Credential + Finger, PIN+Finger, Credential+PIN |                                          |
| Warranty                                 | 1 year                                                                     |                                          |
| Certifications                           |                                                                            |                                          |
| Rating                                   | IP-65                                                                      |                                          |