

BlueDiamond Readers



Overview

BlueDiamond™ readers are part of the complete BlueDiamond mobile solution* that allows users to have an effortless experience and enjoy the freedom of movement in the workplace without compromising security.

BlueDiamond readers provide a feature-rich reader platform with support for Supervised F/2F (SF/2F) protocol, in addition to Wiegand, OSDP™ and OSDP SC. Support for SF/2F will provide a lower cost alternative to a complete replacement strategy for Casi-Rusco customers. It will also allow legacy customers to migrate to OnGuard® in smaller steps, while providing future-proof technologies in DESFire and BlueDiamond mobile credentials.

Simultaneous support for a wide range of smart cards – including HID® iCLASS®, MIFARE® and DESFire® EV1 and EV2 – in addition to support for standard proximity cards – means BlueDiamond readers provide a bridge from legacy plastic badges to mobile access control, allowing seamless integration into existing locations. BlueDiamond readers are also well-suited for applications where long-read range is important (i.e. parking garages, gated communities, etc.).

SIA™ (Security Industry Association) OSDP (Open Supervised Device Protocol) support, coupled with Secure Channel encryption, provides continuous monitoring of reader state and operation, data security between the reader and access panel, and simplified wiring. Wiegand and Supervised F/2F output protocols are also supported for interfacing with legacy systems. BlueDiamond readers also support OSDP file transfer, enabling customers to send firmware updates as well as reader configuration changes, all from the controller directly to BlueDiamond readers. By enabling customers to remotely update reader software, OSDP file transfer can lower labor costs, save time and simplify the update process.



Features & Functionality

- Support for BlueDiamond mobile credentials via Bluetooth
- Multi-tech models offer simultaneous support for:

125kHz proximity cards

- HID Proximity
- AWID® Proximity
- CASI/GE Security ProxLite

13.56MHz smart cards





- MIFARE® DESFire EV1/EV2
- MIFARE Classic - ISO 14443
- Vicinity Card Serial Number - ISO 15693
- HID iCLASS** Card

- Wiegand, SF/2F or OSDP with or without secure channel encryption, auto-configuring with LenelS2 access panels
- Slim profile
- Fingerprint-resistant black textured finish
- Optical tamper switch
- 5-year limited warranty

BlueDiamond readers can also be wired in parallel with an existing non-Bluetooth Wiegand reader, allowing any door to be Bluetooth-enabled. Whether mounted near the door in an inconspicuous location or adjacent to it, this device will update a legacy system with the latest technology, while continuing to support existing badges – regardless of card technology or format. No additional reader license is required for this configuration.

BlueDiamond™ Readers

Specifications

 Multi-Technology Mini-Mullion Reader LNL-R11330-05TB	 Multi-Technology Standard-sized Reader LNL-R11320-05TB	 Multi-Technology Standard- sized Reader with PINpad LNL-R11325-05TB	 Prox + Mobile Mini-Mullion Reader LNL-R11030-85TB
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Mechanical				
Dimensions	3.8 x 2.1 x 0.8 in 96 x 52 x 21mm	4.2 x 3.0 x 0.8 in 120 x 76 x 21mm		3.8 x 2.1 x 0.8 in 96 x 52 x 21mm
Housing	Molded polycarbonate/ABS			
Finish	Black, textured, fingerprint resistant			
Mounting	Wall surface or standard US, UK, or EU switchbox			Anywhere within 10ft/3M of legacy reader
Environmental				
Operating Temperature	-31° - 149°F (-35° - 65°C)			
Humidity	0 - 100% RHNC			
Ingress Protection Rating	IP65			
Electrical				
Voltage	10Vdc to 16Vdc			
Average Current draw at 12 VDC	35mA	35mA	67mA	12mA
Peak Current draw at 12 VDC	67mA	73mA	105mA	21mA
Data Voltage	Rest >4Vdc / Active <1Vdc			
Reader Interface	Supervised F/2F***, OSDP, Weigand			Weigand
Indication	1 RGB LED		1 RGB LED + illuminated keypad	1 RGB LED
Sounder	Integral speaker			
Read Range	Up to 4 in. (10cm) for RFID cards, up to 30 ft. (9m) for Bluetooth			
Certifications				

FCC Part 15 | UL294 | CE Marked | RoHS | WEEE

* The BlueDiamond mobile app is available for iOS® and Android® devices, as well as the Apple Watch®.

BlueDiamond credentials require the OnGuard® access control solution, version 7.3 or higher.

**Support for iCLASS Classic or Standard, not Elite Key, SE or SEOS.

***Support for Supervised F/2F protocol on a BlueDiamond reader is indicated by a label visible on the physical reader.



LenelS2.com

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Specifications subject to change without notice.

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