

# BlueDiamond<sup>™</sup> Readers



## Overview

Lenel® BlueDiamond mobile readers are part of the complete BlueDiamond mobile solution, incorporating Bluetooth® 4.0 low-energy technology.

Simultaneous support for a wide range of smart cards and proximity cards means BlueDiamond readers provide a bridge from legacy plastic badges to cardless mobile access control, allowing seamless integration into existing locations.

Economical and flexible, BlueDiamond readers are ideal for enhancing freedom of movement in the workplace, allowing employees to have their access credentials on the smart devices they already carry. And because BlueDiamond mobile credentials can be read from a distance of up to 30 ft (9M), the BlueDiamond solution is well-suited for applications where long-read range is important.

BlueDiamond readers support the 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 'rip and replace' strategy for Casi-Rusco customers. It will also allow legacy customers to migrate to OnGuard® in smaller steps as budgets permit, while providing future-proof technologies in DESFire and our BlueDiamond mobile credentials.

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 Clock/Data formats 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



## Features & Functionality

- Support for Lenel BlueDiamond mobile credentials via Bluetooth 4.0 low-energy
- 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 Serial Number (CSN)

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




---

file transfer lowers labors costs, saves time and simplifies the update process.

This reader 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 <b>LNL-R11330-05TB</b>	 Multi-Technology Standard-sized Reader <b>LNL-R11320-05TB</b>	 Multi-Technology Standard-sized Reader with PINpad <b>LNL-R11325-05TB</b>	 Prox + Mobile Mini-Mullion Reader <b>LNL-R11030-85TB</b>
---	---	---	--

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, Clock & Data			Weigand, Clock & Data
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

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

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

Lenel BlueDiamond credentials require OnGuard® version 7.3 or higher.



[LenelS2.com](http://LenelS2.com)

(866) 788-5095

Specifications subject to change without notice.

©2018 United Technologies Corporation. All rights reserved.

All trademarks are the property of their respective owners. LenelS2 is a part of UTC Climate, Controls & Security, a unit of United Technologies Corporation.

2018/12 (GSP-2656)