

# BlueDiamond Multi-technology Readers

ROHS CE UNITY



#### Overview

The BlueDiamond<sup>™</sup> platform offers a complete, next-generation access control experience. With multi-technology readers, a feature-rich mobile app and the ability to support mobile and physical credentials, organizations can upgrade to the BlueDiamond experience at their own pace.

BlueDiamond multi-technology readers are among the most versatile access control readers on the market, work seamlessly with existing infrastructures and leverage open credentialing standards. The readers are non-proprietary, access control platform agnostic and support standard output protocols including Supervised F/2F (SF/2F), Wiegand, OSDP™ and OSDP V2. When utilizing LenelS2 OnGuard®, NetBox™, and Elements™ access control systems, users can conveniently manage mobile credentials through a single system.

Simultaneous support for a wide range of smart cards – including HID® iCLASS®, MIFARE® and DESFire® EV1, EV2 and EV3 – in addition to support for standard proximity cards means BlueDiamond multi-tech readers provide a seamless migration path from less secure card technologies to a more secure, open standard with DESFire EV1, EV2 and EV3 card technology and BlueDiamond mobile credentials.

The latest update to the BlueDiamond reader portfolio is the ability to support NFC Wallet-based credentials. With a cybersecurity mindset and privacy by design development strategy, LenelS2 is providing one of the most customercentric NFC solutions on the market. Please reach out to your local Regional Sales Manager for more information on how to get started.

#### Features & Functionality

- Support for LenelS2 BlueDiamond Bluetooth and NFC credentials
- Multi-tech readers offer simultaneous support for:
  - 125kHz proximity cards
    - HID Proximity
    - AWID® Proximity
    - CASI/GE Security ProxLite
  - 13.56MHz smart cards
    - MIFARE DESFire EV1/EV2/EV3
      - Support for key diversification based on NXP standard
    - Support for NFC wallet-based credentials for Android and iOS
    - MIFARE Classic ISO 14443, or secure sector data
    - Vicinity Card Serial Number ISO 15693 - HID iCLASS\*
- DESFire Google Wallet NFC
- DESFire Apple Wallet NFC
- Wiegand, SF/2F or OSDP with or without secure channel encryption, auto-configuring with LenelS2<sup>™</sup> access panels
- Firmware updates, custom key loading and configuration changes via OSDP file transfer when BlueDiamond multi-tech readers are paired with the OnGuard access control system version 7.5 or greater, Mercury xSeries Controllers and Mercury Series 3 i/o boards
- Slim profile
- Fingerprint-resistant black textured finish
- Optical tamper switch

## BlueDiamond Multi-technology Readers

Specifications	€ LENEL.52	© ØLENEL.52	
Mobile-enabled Readers	Multi-technology Mini-mullion Reader LNL-R11330-05TB	Multi-technology Standard-size Reader LNL-R11320-05TB	Multi-technology Standard-size Reader with PINpad LNL-R11325-05TB
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	
Housing	Molded polycarbonate/ABS		
Finish	Black, textured, fingerprint resistant		
Mounting	Wall surface or standard US, UK, or EU switchbox		
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
Peak Current draw at 12 VDC	67mA	73mA	105mA
Data Voltage	Rest >4Vdc / Active <1Vdc		
Reader Interface	Supervised F/2F**, OSDP, Weigand		
Indication	1 RGB LED + illuminated keypad		
Sounder	Integral speaker		
Read Range	Up to 4 in. (10cm) for RFID cards, up to 30 ft. (9m) for Bluetooth		
Warranty			
Warranty	5-year limited warranty		
Certifications			
FCC Part 15   UL294   0	CE Marked   RoHS   WEEE   IP65		

\*Support for HID 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.

## BlueDiamond Multi-technology Readers

### Ordering Information

LNL-R11330-0578Multi-echnology Mini-multion ReaderLNL-R11320-0576Multi-echnology Standard-size ReaderLNL-R11325-0578Multi-echnology Standard-size ReaderLNL-R12325-0578Multi-echnology Standard-size Reader with PINpadPere-EncoderEssine EV3 ISO PVC 2K 13.56MHzLNL-EV22KPPDSSFne EV3 ISO PVC 2K 13.56MHz - pre-programmed with diversified key for BlueDiamond readers (requires acider firmware dev 2.0 r higher)LNL-EV22KPPDoB0DSSFne EV3 ISO Composite & K13.56MHz - pre-programmed with diversified key for BlueDiamond readers (requires reader firmware dev 2.0 r higher) 9476-3mLNL-EV22KPPD00DSSFne EV3 ISO Composite & K13.56MHz - pre-programmed with diversified key for BlueDiamond readers (requires reader firmware dev 2.0 r higher) 9476-3mLNL-EV22KPPD00DSSFne EV3 ISO Composite & K13.56MHzLNL-EV2KPPD00DSSFne EV3 ISO Composite & K13.56MHzLNL-EV2KPPD00DSSFne EV3 ISO Composite & K14 Magnetic Stripe (no encoding on stripe)LNL-EV2KPPD00DSSFne EV3 ISO PVC 2K 13.56MHzLNL-EV2KPPD00DSSFne EV3 ISO PVC 2K 13.56MHzLNL-EV2KPPD00DSSFne EV3 ISO PVC 2K 13.56MHzLNL-EV2KNPD0DSSFne EV3 ISO PVC 2K 1	Readers		
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