

# THE NEXT GENERATION IN ACCESS HARDWARE

## BlueDiamond™ Multi-Technology Readers

The Honeywell BlueDiamond 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.



Honeywell BlueDiamond Multi-Technology Readers

BlueDiamond multi-technology readers are among the most versatile access control readers on the market. They work seamlessly with existing infrastructures and leverage open credentialing standards. The readers comply with ISO 14443 Type A standards, and are access control platform agnostic. BlueDiamond readers support standard output protocols including Wiegand, OSDP, OSDPv2, and Supervised F/2F (SF/2F).

Capable of supporting a wide range of smart cards – including HID® iCLASS®, MIFARE® and DESFire® EV1, EV2, and EV3 – and 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 offer a pathway to mobile keys with BlueDiamond mobile credentials.

With a cybersecurity mindset and privacy-by-design development strategy, Honeywell is providing one of the most customer-centric reader solutions on the market.

## FEATURES & BENEFITS



Multi-tech readers offer simultaneous support for:

- 125 kHz proximity cards
  - HID Proximity
  - AWID® Proximity
  - CASI/GE Security ProxLite
- 13.56 MHz smart cards
  - MIFARE DESFire EV1/EV2/EV3
  - MIFARE Classic - ISO 14443, or secure sector data
  - Vicinity Card Serial Number ISO 15693
  - HID iCLASS\*\*
- Support for key diversification based on NXP standard
- Support for NFC wallet-based credentials



Support for Honeywell BlueDiamond Bluetooth® and NFC credentials



Readers are mobile-enabled and ready for use with BlueDiamond Bluetooth credentials - no need to add or replace hardware.\*



Firmware updates, custom key loading and configuration changes



Slim profile with fingerprint-resistant black textured finish



Wiegand, OSDP or SF/2F with or without secure channel encryption auto-configuring with Honeywell access panels




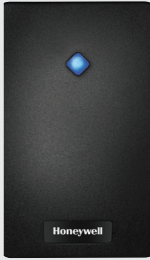
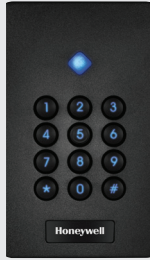
Optical tamper switch

\* Future release

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

# SPECIFICATIONS

**TABLE 1. PRODUCT SPECIFICATIONS**

	 <p><b>HON-R11330-05TB</b> Multi-Technology Mini-Mullion Reader</p>	 <p><b>HON-R11320-05TB</b> Multi-Technology Standard Size Reader</p>	 <p><b>HON-R11325-05TB</b> Multi-Technology Standard Size Reader with Keypad</p>
<b>Mechanical</b>			
<b>Dimensions</b>	96 mm × 52 mm × 21 mm [3.8 in × 2.1 in × 0.8 in]	120 mm × 76 mm × 21 mm [4.2 in × 3.0 in × 0.8 in]	
<b>Housing</b>	Molded polycarbonate/ABS		
<b>Finish</b>	Black, textured, fingerprint resistant		
<b>Mounting</b>	Wall surface or standard US, UK, or EU switchbox		
<b>Environmental</b>			
<b>Operating temperature</b>	-35 °C to 65 °C [-31 °F to 149 °F]		
<b>Relative humidity</b>	0 % to 100 % relative humidity, non-condensing		
<b>Ingress protection rating</b>	IP65		
<b>Network Accessories</b>			
<b>Voltage</b>	10 Vdc to 16 Vdc		
<b>Average current draw at 12 Vdc</b>	35 mA	35 mA	67 mA
<b>Peak current draw at 12 Vdc</b>	67 mA	73 mA	105 mA
<b>Data voltage</b>	Rest > 4 Vdc / Active < 1 Vdc		
<b>Reader interface</b>	Wiegand, OSDP, Supervised F/2F (SF/2F)***		
<b>Indication</b>	1 RGB LED		1 RGB LED + illuminated keypad
<b>Sounder</b>	Integral speaker		
<b>Read Range</b>	Up to 10 cm [4 in] for RFID cards, up to 9 m [30 ft] for Bluetooth		
<b>Warranty</b>			
<b>Warranty</b>	5-year limited warranty		
<b>Certifications</b>			
<b>Certifications</b>	FCC Part 15   UL294   CE Marked   RoHS   WEEE Contact Your Honeywell representative for certification documents		

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

# ORDERING INFORMATION

**TABLE 2. ORDERING INFORMATION**

Mobile-Enabled Readers	
HON-R11330-05TB	BlueDiamond multi-technology reader, mini-mullion size single gang, DESfire, prox, terminal block wiring
HON-R11320-05TB	BlueDiamond multi-technology reader, standard size single gang, DESfire, prox, terminal block wiring
HON-R11325-05TB	BlueDiamond multi-technology reader, standard size single gang, keypad, DESfire, prox, terminal block wiring
Pre-encoded Credentials	
HON-EV28KPP	DESFire EV2 ISO composite 8K 13.56 MHz
HON-EV28KPXPP	DESFire EV2 ISO composite 8K with proximity chip
Licenses	
BDM-CRD	Per mobile credential per user fee
BDM-RDR	Per reader fee for unlimited credentials. Applies to every reader used for use with mobile credentials only
BDM-IOSBUNDLE	One-time setup fee for NFC Wallet-based credentials
BDM-IOSUSER	New "adds to wallet" or activation of NFC credential

One NFC user has two credentials (based on PACS).

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

For Android™-compatible options, please contact your authorized Honeywell agent.

One Phone credential and one Watch credential = One pass for one NFC user.

## For More Information

[hwl.co/securityUK](http://hwl.co/securityUK)

[hwl.co/securityAE](http://hwl.co/securityAE)

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OSDP is a trademark of Security Industry Association.

MIFARE, DESFIRE is a trademark of NXP BV.

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