

Contactless Smart Card Readers



OmniClass™ from Honeywell is a range of 13.56 MHz contactless secure smart card readers that offers superb reliability, consistent read range and ease of installation. They are available in several sizes and each OmniClass reader incorporates smart card technology allowing the user to support biometric profiles and multiple applications on each card simultaneously.

OmniClass can retro-fit any Wiegand output reader, including standard HID® or Honeywell proximity readers.

Smart card technology is ideally suited for access control, logical (PC) access, storage of biometric templates, parking, secure ID's with embedded tamper-proof digital photos, ePurse and many other applications requiring secure and reliable read/write cards.

Multi Technology Functionality

To make it easier for customers to transition to a smart card system from a 125 kHz prox card system, the range includes options that can support HID Prox, EM4102 and AWID proximity technologies. These multi-technology readers work with all technologies simultaneously and will allow the user to transition to smart cards over time while incorporating the use of multiple card technologies within a single building or across multiple facilities.

In addition, the OmniClass reader range provides enhanced security through mutual authentication and data encryption when using the smart card credential based on the encrypted contactless communication. Whether reading proximity, OmniClass or multitechnology cards, identical user identification data formats are sent to the panel, keeping the data on the card transparent to the user.

The OmniClass reader range benefits include:

Suitable for integrated access control systems: A fast response time between two consecutive card reads makes it suitable for integrated access control and intrusion systems where a triple swipe action at the reader is needed to arm the system.

More Open: OmniClass 2.0 readers support global 13.56 MHz smart card technology standards including OmniClass, OmniClass 2.0, iCLASS®, iCLASS SR™/SE®, iCLASS® Seos™ as well as MIFARE Classic* and MIFARE DESFire EV1*. Optionally 125 kHz Prox technology is supported including HID® Prox, EM4102 and AWID

More Secure: Card numbers for OmniClass/iClass credentials are safely stored and transmitted using 64-bit authentication keys encryption, which is suitable for most access control applications. A higher level of security can be achieved using the AES encrypted iClass SE/ iCLASS Seos and MIFARE DESFire EV1 credentials. Additional keypad versions are available for dual authentication.

Convenience: Card numbers are printed on the OmniClass cards/credentials. MIFARE Card Serial Numbers (CSN) also supported. Interoperability between vendors & applications is possible via the smart card's accessible memory.

Easy to install: Two piece installation, only mounting plate and reader. Wiegand output for new and retrofit installations, indoor and outdoor

Simple transition from 125 kHz PROX to OmniClass smart cards: Multi technology OmniClass readers make it easy for a HID Prox, EM4102 or AWID card based technology system to transition to an OmniClass smart card based solution.

FEATURES

- Supports multiple ISO standards: Allows OmniClass 2.0 to read most ISO standard smart card.
- Custom MIFARE Classic and MIFARE DESFire EV1 optionally available
- High-Security: Encrypted data exchange available between card and reader and between reader and host reduces the risk of compromised data and duplicated cards.
- Available in mullion, switch plate and wall-mount sizes
- ADA compliant built-in audible beeper

- Host LED control (programmable)
- Control cards (optional) can be used to manage security keys and change the operating characteristics of the reader
- Hidden mounting screws deter vandalism
- Potted for superior weather resistance
- Wiegand output
- Reads HID Prox, EM4102 and AWID and OmniClass credentials (Multi technology models only)
- Ideal solution for card technology transition (Multi technology models only)

The OmniClass 2.0 reader range is by default compatible with HID® SE for MIFARE and HID SE for DESFire EV1 credentials.

Optionally it is possible to configure the OmniClass 2.0 readers with custom user defined keys MIFARE Classic and MIFARE DESFire EV1.

^{*} Note about MIFARE Classic and MIFARE DESFire EV1 technologies.

Contactless Smart Card Readers

SPECIFICATIONS

SMART CARD READERS

Part Number	OM15BHOND OM15BHONDT	OM30BHOND OM30BHONDT	OM40BHOND OM40BHONDT	OM45BHOND OM45BHONDT	OM55BHOND OM55BHONDT
Mounting	Large Mullion Size suited for mullion- mounted door installations or any flat surface	Mullion Size suited for mullion-mounted door installations or any flat surface	Americas and includes a slotted mounting plate for European and Asian back box spacing	square reader is designed to mount to and cover standard European and Asian back	gang switch boxes primarily used in the Americas and includes a slotted mounting plate for European and Asiar back box spacing
Keypad		No			Yes
Housing Colour			Black		
Dimensions (W x H x D)	4.8 x 15.3 x 2.3 cm 1.9" x 6.0" x 0.9"	4.8 x 10.3 x 2.3 cm 1.9" x 4.1" x 0.9"	8.4 x 12.2 x 2.4 cm 3.3" x 4.8" x 1.0"	8.4 x 8.4 x 2.3 cm 3.3" x 3.3" x 0.9"	8.5 x 12.2 x 2.8 cm 3.3" x 4.8" x 1.1"
Typical Read Ranges * OmniClass/iCLASS credential 2k/16k Smart (OKP0/ OKP2) iClass SE credential Key/tag Smart(PXKEYH/OKS)	7.6 cm / 3.0" 7.6 cm / 3.0" 3.2 cm / 1.25"	7.6 cm / 3.0" 7.6 cm / 3.0" 3.2 cm / 1.25"	11.4 cm / 4.5" 11.4 cm / 4.5" 4.4 cm / 1.75"	8.9 cm / 3.5" 8.9 cm / 3.5" 5.1 cm / 2.0"	12.7 cm / 5.0" 12.7 cm / 5.0" 4.4 cm / 1.75"
MIFARE / DESFire credential SE for MIFARE Classic ISO card SE for MIFARE Classic Key/tag SE for DESFire EV1 ISO card	5.7 cm / 2.25" 1.3 cm / 0.5" 5.1 cm / 2.0"	5.7 cm / 2.25" 1.3 cm / 0.5" 5.1 cm / 2.0"	8.9 cm / 3.5" 3.8 cm / 1.5" 8.3 cm / 3.25"	7.6 cm / 3.0" 3.8 cm / 1.5" 5.1 cm / 2.0"	11.4 cm / 4.5" 3.8 cm / 1.5" 5.7 cm / 2.25"
Smart Card Compatibility	15693: Reads iClass/OmniClass credentials, card serial number 14443B: Reads iClass/OmniClass credentials (secure)				
Additional ISO support	14443A 1-3: Reads NXP MIFARE Classic credentials, Sector 14443A 1-4: Reads NXP MIFARE DESFire EV1 credentials, AES Encrypted files 14443A: Reads NXP MIFARE Classic, DESFire EV1 credentials, Card Serial Number (CSN or UID)				
Key Length	iClass/OmniClass 64 bit encryption iClass SE / iCLASS Seos 128 bit AES Encryption SE for MIFARE Classic / SE for DESFire EV1 128 bit AES Encryption				
Data Encryption	Available between card and reader (OmniClass and iClass) Additionally on credential (SE for MIFARE Classic and MIFARE DESFire EV1)				
Cryto Processor Hardware Common Criteria Rating	EAL5+				
Regulatory Approvals	UL294/cUL (US), FCC Certification (US), IC (Canada), CE (EU), C-tick (Australia, New Zealand), SRRC (China), KC (Korea), NCC (Taiwan), iDA (Singapore)				
Operating Temperature	-31º to 150º F (-35º to 65º C)				
Operating Humidity	5 to 95% relative humidity (non-condensing)				
Operating Voltage Range			5 - 16 VDC		
Current Normal standby current Maximum average current	60mA 90mA	60mA 90mA	65mA 90mA	65mA 90mA	85mA 100mA
Termination	9 wi		ersion) or 9 wire term	· · · · · · · · · · · · · · · · · · ·	n)
Tamper Output	Available (Optical sensor)				
Hold Wire input	Yes				
Panel Interfaces	(all built-in) Wiegand				
IP Rating	IP55				
Warranty**	Limited Lifetime				

^{*} Typical read range achieved in air. Different types of metal will cause some degradation. **See Honeywell Security Group's Sales Policy for complete details.



Contactless Smart Card Readers

SPECIFICATIONS

SMART CARD AND 125 kHz PROX MULTITECHNOLOGY READERS

Part Number	OM16BHOND OM16BHONDT	OM31BHOND OM31BHONDT	OM41BHOND OM41BHONDT	OM46BHOND OM46BHONDT	OM56BHOND OM56BHONDT
Mounting	Large Mullion Size suited for mullion- mounted door installations or any flat surface	Mullion Size suited for mullion-mounted door installations or any flat surface	Wall Switch Size designed to mount and cover single US gang switch boxes primarily used in the Americas and includes a slotted mounting plate for European and Asian back box spacing	EU / APAC Square Size 83.8 mm (3.3") square reader is designed to mount to and cover standard European and Asian back boxes	Wall Switch Size designed to mount and cover single gang switch boxes primarily used in the Americas and includes a slotted mounting plate for European and Asian back box spacing
Keypad		Ne	0		Yes
Housing Colour			Black		
Dimensions (W x H x D)	4.8 x 15.3 x 2.3 cm 1.9" x 6.0" x 0.9"	4.8 x 10.3 x 2.3 cm 1.9" x 4.1" x 0.9"	8.4 x 12.2 x 2.4 cm 3.3" x 4.8" x 1.0"	8.4 x 8.4 x 2.3 cm 3.3" x 3.3" x 0.9"	8.5 x 12.2 x 2.8 cm 3.3" x 4.8" x 1.1"
Typical Read Ranges * OmniClass/iCLASS credential 2k/16k Smart (OKPO/ OKP2) iClass SE credential Key/tag Smart(PXKEYH/OKS)	6.4 cm / 2.5" 6.4 cm / 2.5" 2.5 cm / 1.0"	6.4 cm / 2.5" 6.4 cm / 2.5" 2.5 cm / 1.0"	11.4 cm / 4.5" 11.4 cm / 4.5" 5.7 cm / 2.25"	8.3 cm / 3.25" 8.3 cm / 3.25" 3.8 cm / 1.5"	11.4 cm / 4.5" 11.4 cm / 4.5" 5.7 cm / 2.25"
MIFARE / DESFire credential SE for MIFARE Classic ISO card SE for MIFARE Classic Key/tag SE for DESFire EV1 ISO card	5.7 cm / 2.25" 1.3 cm / 0.5" 2.5 cm / 1.0"	5.7 cm / 2.25" 1.3 cm / 0.5" 2.5 cm / 1.0"	10.2 cm / 4.0" 3.8 cm / 1.5" 5.1 cm / 2.0"	5.7 cm / 2.25" 2.5 cm / 1.0" 5.1 cm / 2.0"	10.2 cm / 4.0" 3.8 cm / 1.5" 5.1 cm / 2.0"
Proximity credential (125kHz) HID Prox / AWID ISO Card HID Prox / AWID Key/tag EM4102 ISO Card	5.1 cm / 2.0" 2.5 cm / 1.0" 8.9 cm / 3.5"	5.1 cm / 2.0" 2.5 cm / 1.0" 8.9 cm / 3.5"	6.4 cm / 2.5" 3.8 cm / 1.5" 10.2 cm / 4.0"	5.7 cm / 2.25" 3.2 cm / 1.25" 5.1 cm / 2.0"	6.4 cm / 2.5" 3.8 cm / 1.5" 7.6 cm / 3.0"
Smart Card Compatibility	15693: Reads iClass/OmniClass credentials, card serial number 14443B: Reads iClass/OmniClass credentials (secure)				
Additional ISO support	14443A 1-3: Reads NXP MIFARE Classic credentials, Sector 14443A 1-4: Reads NXP MIFARE DESFire EV1 credentials, AES Encrypted files 14443A: Reads NXP MIFARE Classic, DESFire EV1 credentials, Card Serial Number (CSN or UID)				
125kHz proximity compatibility	HID Prox, AWID and EM4102				
Key Length	iClass/OmniClass 64 bit encryption iClass SE / iCLASS Seos 128 bit AES Encryption SE for MIFARE Classic / SE for DESFire EV1 128 bit AES Encryption				
Data Encryption	Available between card and reader (OmniClass and iClass) Additionally on credential (SE for MIFARE Classic and MIFARE DESFire EV1)				
Cryto Processor Hardware Common Criteria Rating		EAL5+			
Regulatory Approvals	UL294/cUL (US), FCC Certification (US), IC (Canada), CE (EU), C-tick (Australia, New Zealand), SRRC (China), KC (Korea), NCC (Taiwan), iDA (Singapore)				
Operating Temperature	-31º to 150º F (-35º to 65º C)				
Operating Humidity	5 to 95% relative humidity (non-condensing)				
Operating Voltage Range	5 - 16 VDC				
Current Normal standby current Maximum average current	75mA 100mA	75mA 100mA	85mA 100mA	85mA 100mA	95mA 105mA
Termination	9 wire 45 cm Pigtail (D- version) or 9 wire terminal block (DT-version)				
Tamper Output	Available (Optical sensor)				
Hold Wire input	Yes				
Panel Interfaces	(all built-in) Wiegand				
IP Rating	IP55				
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Limited Lifetime

Warranty**

 $^{^{\}star}$ Typical read range achieved in air. Different types of metal will cause some degradation.

^{**} See Honeywell Security Group's Sales Policy for complete details.

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ORDERING

Readers OmniClass 2.0 Smart Card Readers		Crederillais	Credentials		
		OmniClass Series Smart Credentials			
OM15BHOND	OmniClass 2.0 Long Mullion Mount Reader,Black	OKP0N26	OmniClass 2K2 PVC Card (26-bit)		
	Bezel, 45 cm pigtail	OKP0N34	OmniClass 2K2 PVC Card (34-bit)		
OM30BHOND	OmniClass 2.0 Mullion Mount Reader, Black Bezel,	OKP2N26	OmniClass 16K16 PVC Card (26-bit)		
	45 cm pigtail	OKP2N34	OmniClass 16K16 PVC Card (34-bit)		
OM40BHOND	OmniClass 2.0 Switch Plate, Single-gang (US) Reader,	PXKEYH16K1626	OmniClass 16K16 Key fob (26-bit)		
ONASERIJONER	Black Bezel, 45 cm pigtail	PXKEYH16K16	OmniClass 16K16 Key fob (34-bit)		
OM45BHOND	OmniClass 2.0 Switch Plate, Single-gang (UK/EU/Asian) Reader, Black Bezel, 45 cm pigtail	OmniClass Series Special Smart Credentials			
OM55BHOND	OmniClass 2.0 Reader with Keypad, Black Bezel, 45 cm pigtail	OKP2M26	OmniClass 16K16 PVC Card (26-bit) with Magnetic Stripe		
OM15BHONDT	OmniClass 2.0 Long Mullion Mount Reader, Black Bezel, terminal strip	OKP2M34	OmniClass 16K16 PVC Card (34-bit) with Magnetic Stripe		
OM30BHONDT	OmniClass 2.0 Mullion Mount Reader, Black Bezel,	OKH2N26	OmniClass 16K16 PVC Card plus HID Prox (26-bit)		
OMBOBI IOND I	terminal strip	OKH2N34	OmniClass 16K16 PVC Card plus HID Prox (34-bit)		
OM40BHONDT	OmniClass 2.0 Switch Plate, Single-gang (US) Reader, Black Bezel, terminal strip	OKH2M26	OmniClass 16K16 PVC Card plus HID Prox (26-bit) with Magnetic Stripe		
OM45BHONDT	OmniClass 2.0 Switch Plate, Single-gang (UK/EU/Asian) Reader, Black Bezel, terminal strip	OKH2M34	OmniClass 16K16 PVC Card plus HID prox (34-bit) with Magnetic Stripe		
OM55BHONDT	OmniClass 2.0 Reader with Keypad, Black Bezel,	OKS2N26	OmniClass 16K16 Sticker (26-bit)		
	terminal strip	OKS2N34	OmniClass 16K16 Sticker (34-bit)		
OmniClass 2.0 Mi	ulti Technology readers	MIFARE Classic a	nd DESFire EV1Smart Credentials		
OM16BHOND	OmniClass 2.0 Multi Technology Long Mullion Mount	PVCHMF1KSE	SE for MIFARE Classic 1K PVC Card (34-bit)		
	Reader,Black Bezel, 45 cm pigtail	PVCHMF1KSE26	SE for MIFARE Classic 1K PVC Card (26-bit)		
OM31BHOND	OmniClass 2.0 Multi Technology Mullion Mount Reader,	PVCHDF8KSE	SE for MIFARE DESFire EV1 8K PVC Card (34-bit)		
	Black Bezel, 45 cm pigtail	PVCHDF8KSE26	SE for MIFARE DESFire EV1 8K PVC Card (26-bit)		
OM41BHOND	M41BHOND OmniClass 2.0 Multi Technology Switch Plate, Single-gang (US) Reader, Black Bezel, 45 cm pigtail		Compatible credentials with Multi Technology readers only		
OM46BHOND	OmniClass 2.0 Multi Technology Switch Plate,	HID Prox Credenti	als		
	Single-gang (UK/EU/Asian) Reader, Black Bezel,	PVCH4	PVC Card HID Prox, 34 bit		
	45 cm pigtail	PVCH4-26	PVC Card HID Prox, 26 bit		
OM56BHOND	OmniClass 2.0 Multi Technology Reader with	PVCH5	PVC Card HID Prox, 34 bit, with Magnetic Stripe		
	Keypad, Black Bezel, 45 cm pigtail	PVCH5-26	PVC Card HID Prox, 26 bit, with Magnetic Stripe		
OM16BHONDT	OmniClass 2.0 Multi Technology Long Mullion	PX4H	Clamshell Card HID Prox, 34 bit		
OMOADUONET	Mount Reader, Black Bezel, terminal strip	PX26H	Clamshell Card HID Prox, 26 bit		
OM31BHONDT	OmniClass 2.0 Multi Technology Mullion Mount	PXKEY3H	Proximity Key fob HID Prox, 34 bit		
OM41BHONDT	Reader, Black Bezel, terminal strip OmniClass 2.0 Multi Technology Switch Plate,	PXKEY3H26	Proximity Key fob HID Prox, 26 bit		
CIVI4 I DI IONDI	Single-gang (US) Reader, Black Bezel, terminal strip	Compatible EM4102 Credentials			
OM46BHONDT	OmniClass 2.0 Multi Technology Switch Plate,	YX0-0002	PVC card for Galaxy Max and KeyProx		
	Single-gang (UK/EU/Asian) Reader, Black Bezel,	YX0-0004	Keytag Black Galaxy MAX		
ON 45 OPLIONET	terminal strip	YX0-0020	Keytag Grey for Galaxy Keyprox		
OM56BHONDT	OmniClass 2.0 Multi Technology Reader with Keypad, Black Bezel, terminal strip				

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For additional information,

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