Honeywell



OmniClass™ 2.0

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 and 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)

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

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.

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Contactless Smart Card Readers

SPECIFICATIONS











Part Number	OM15BHOND OM15BHONDT	OM30BHOND OM30BHONDT	OM40BHOND OM40BHONDT	OM45BHOND OM45BHONDT	OM55BHOND OM55BHONDT
Mounting	Large Mullion Size mounted door installations or any	Mullion Size suited for mullion-mounted door installations or any flat surface	Wall Switch Size designed to mount andcover 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		N	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 (OKP0/ OKP2) Class 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	-31° to 150° F (-35° to 65° 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 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				
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.

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SMART CARD AND 125 KHZ PROX MULTI TECHNOLOGY READERS

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OM16BHOND OM16BHONDT	OM31BHOND OM31BHONDT	OM41BHOND OM41BHONDT	OM46BHOND OM46BHONDT	OM56BHOND OM56BHONDT
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
	N	0		Yes
		Black		
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"
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"
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"
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"
15693: Reads iClass/OmniClass credentials, card serial number 14443B: Reads iClass/OmniClass credentials (secure)				
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)				
HID Prox, AWID and EM4102				
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				
Available between card and reader (OmniClass and iClass) Additionally on credential (SE for MIFARE Classic and MIFARE DESFire EV1)				
EAL5+				
UL294/cUL (US), FCC Certification (US), IC (Canada), CE (EU), C-tick (Australia, New Zealand), SRRC (China), KC (Korea), NCC (Taiwan), iDA (Singapore)				
-31° to 150° F (-35° to 65° C)				
5 to 95% relative humidity (non-condensing)				
5 - 16 VDC				
75mA 100mA	75mA 100mA	85mA 100mA	85mA 100mA	95mA 105mA
	9 wire 45 cm Pigtail (E	D-version) or 9 wire termina	ll block (DT-version)	
Available (Optical sensor)				
Yes				
(all built-in) Wiegand				
	IP55			
Limited Lifetime				
	OM16BHONDT Large Mullion Size suited for mullion-mounted door installations or any flat surface 4.8 x 15.3 x 2.3 cm 1.9"x 6.0" x 0.9" 6.4 cm/2.5" 6.4 cm/2.5" 2.5 cm/1.0" 5.7 cm/2.25" 1.3 cm/0.5" 2.5 cm/1.0" 5.1 cm/2.0" 2.5 cm/1.0" 8.9 cm/3.5" ACUL294/cUL	OM16BHONDT OM31BHONDT 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 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" 6.4 cm/2.5" 6.4 cm/2.5" 6.4 cm/2.5" 2.5 cm/1.0" 5.7 cm/2.25" 6.4 cm/2.5" 2.5 cm/1.0" 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" 5.1 cm/2.0" 2.5 cm/1.0" 2.5 cm/1.0" 8.9 cm/3.5" 8.9 cm/3.5" 8.9 cm/3.5" 15693: Reads iClas 14443B: Reads IClas 14443B: Reads IClas 14443A 1-3: Reads IClas 14443A 1-3: Reads IClas SE/ICLAS SE/ICL	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 Mullion Size suited for mullion-mounted door installations or any flat surface Mullion Size suited for suited for mullion-mounted door installations or any flat surface Mullion Size suited for switch boxes primarily used in the Americas and includes a slotted mounting plate for European and Asian back box spacing No	M16BHONDT

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

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OmniClass™ 2.0

Contactless Smart Card Readers

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Readers		Credentia				
OM15BHOND	OmniClass 2.0 Long Mullion Mount Reader, Black	Omni Series Smart Credentials				
OM30BHOND	Bezel, 45 cm pigtail OmniClass 2.0 Mullion Mount Reader, Black Bezel,	OKPON26 OmniClass 2K PVC Card with 2 Application Areas (26-bit)				
	45 cm pigtail	OKPON34	OmniClass 2K PVC Card with 2 Application Areas (34-bit)			
OM40BHOND	OmniClass 2.0 Switch Plate, Single-gang (US) Reader,	OKP2N26	OmniClass 16K PVC Card with 16 Application Areas (26-bit)			
	Black Bezel, 45 cm pigtail	OKP2N34	OmniClass 16K PVC Card with 16 Application Areas (34-bit)			
OM45BHOND	OmniClass 2.0 Switch Plate, Single-gang (UK/EU/Asian)	OKK2N26R OmniClass 16K Key Fob with 16 Application Areas (26-bit)				
OMEEDHOND	Reader, Black Bezel, 45 cm pigtail	OKK2N34F	R OmniClass 16K Key Fob with 16 Application Areas (34-bit)			
OMISSBHOND	OmniClass 2.0 Reader with Keypad, Black Bezel, 45 cm pigtail	OKS2N26	OmniClass 16K Adhesive tag with 16 Application Areas (26-bit)			
OM15BHOND	「ComniClass 2.0 Long Mullion Mount Reader, Black	OKS2N34	OmniClass 16K Adhesive tag with 16 Application Areas (34-bit)			
	Bezel, terminal strip	OmniClas	s Series Smart Credentials with Magnetic Stripe			
OM30BHOND	ComniClass 2.0 Mullion Mount Reader, Black Bezel,	OKP2M26	OmniClass 16K PVC Card with Mag Stripe,			
OMAGRHOND	terminal strip 「 OmniClass 2.0 Switch Plate, Single-gang (US) Reader,		16 App Areas (26-bit)			
	Black Bezel, terminal strip	OKP2M34	OmniClass 16K PVC Card with Mag Stripe, 16 App Areas (34-bit)			
OM45BHOND	ComniClass 2.0 Switch Plate, Single-gang (UK/EU/Asian) Reader, Black Bezel, terminal strip	OKP2M00	OmniClass 16K Unprogrammed PVC Card with Mag Stripe			
OM55BHOND	ComniClass 2.0 Reader with Keypad, Black Bezel,	OmniClass Series Smart + Prox Credentials*				
	terminal strip	OKH2N26	OmniClass 16K PVC Card with HID Prox, 16 App Areas (26-bit)			
OmniClass 2.0	Multi Technology Readers	OKH2N34	OmniClass 16K PVC Card with HID Prox, 16 App Areas (34-bit)			
OM16BHOND	OmniClass 2.0 Multi Technology Long Mullion Mount	OmniClas	s Series Smart + Prox w/ Magnetic Stripe Credentials*			
ON AS A DUI ON ID	Reader, Black Bezel, 45 cm pigtail	OKH2M26	OmniClass 16K PVC Card with HID Prox & Mag Stripe,			
OM31BHOND	OmniClass 2.0 Multi Technology Mullion Mount Reader, Black Bezel, 45 cm pigtail		16 App Areas (26-bit)			
OM41BHOND	OmniClass 2.0 Multi Technology Switch Plate,	OKH2M34	OmniClass 16K PVC Card with HID Prox& Mag Stripe,			
	Single-gang (US) Reader, Black Bezel, 45 cm pigtail		16 App Areas (34-bit)			
OM46BHOND	OmniClass 2.0 Multi Technology Switch Plate,		Series Credentials (Multi-Tech Readers only)*			
	Single-gang (UK/EU/Asian) Reader, Black Bezel,		ComniProx ISO Credential 25 Card Pack (26-bit)			
OM56RHOND	45 cm pigtail OmniClass 2.0 Multi Technology Reader with	PVC4PK	OmniProx ISO Credential 25 Card Pack (34-bit)			
OWISODITIONE	Keypad, Black Bezel, 45 cm pigtail	PVC526PK	ComniProx ISO Credential with Mag Stripe 25 Card Pack (26-bit)			
OM16BHOND	ComniClass 2.0 Multi Technology Long Mullion	PVC5PK	OmniProx ISO Credential with Mag Stripe 25 Card Pack (34-bit)			
	Mount Reader, Black Bezel, terminal strip	PX426PK	OmniProx Clamshell Credential 25 Card Pack (26-bit)			
OM31BHOND	ComniClass 2.0 Multi Technology Mullion Mount	PX4PK	OmniProx Clamshell Credential 25 Card Pack (34-bit)			
OM41PHOND	Reader, Black Bezel, terminal strip 「OmniClass 2.0 Multi Technology Switch Plate,	*Also availab	ele as special order with user specified site code and card ranges			
OWI4 I BHOND	Single-gang (US) Reader, Black Bezel, terminal strip					
OM46BHOND	ComniClass 2.0 Multi Technology Switch Plate,					
	Single-gang (UK/EU/Asian) Reader, Black Bezel, terminal strip					
OM56BHOND	ComniClass 2.0 Multi Technology Reader with Keypad,					
	Black Bezel, terminal strip					

For more information

www.honeywellaccess.com

Automation and Control Solutions

Honeywell Access Systems 135 W. Forest Hill Avenue Oak Creek, WI 53154 414.766.1700 414.766.1798 Fax www.honeywell.com

