

OmniClass™

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 or Indala proximity technologies. These multi-technology readers work with both 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 OmniClass credential. Whether reading proximity, OmniClass or multi-technology 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.

Security: Card numbers for OmniClass/iClass credentials are safely stored and transmitted using 64-bit authentication keys encryption. Additional keypad versions are available.

Convenience:** Card numbers are printed on the OmniClass cards/credentials. Mifare Card Serial Numbers (CSN) also supported.

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 or Indala proximity card based technology system to transition to an OmniClass smart card based solution.

FEATURES

- Supports multiple ISO standards: Allows OmniClass to read almost any ISO standard smart card. (Depending on card technology, may be limited to card serial number.)
- 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 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 or Indala Prox and OmniClass credentials (Multi technology models only)
- Ideal solution for card technology transition (Multi technology models only)

Important Notes about the OM70BHONC Long Range Reader

Please note that OM70BHONC:

* Does not support a fast response time between two consecutive card reads

** Does not support Mifare Card Serial Number (CSN)







*** Consists of a three piece installation with a terminal block for wiring

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SPECIFICATIONS

SMART CARD READERS

	OM15BHONCS	OM30BHONCS	OM40BHONCS	OM45BHONCS	OM55BHONCS	OM70BHONC
						
Dimensions	4.8 x 15.3 x 2.3 cm	4.8 x 10.3 x 2.3 cm	8.4 x 12.2 x 2.4 cm	8.4 x 8.4 x 2.3 cm	8.5 x 12.2 x 2.8 cm	30.5 x 30.5 x 3.2 cm
iClass / OmniClass Credential Read Range ¹						
2k Smart (OKP0...)	8.9 cm	8.9 cm	12 cm	10 cm	10 cm	43-45 cm
16k Smart (OKP2...)	8.9 cm	8.9 cm	12 cm	10 cm	10 cm	40-43 cm
Proximity and 16k Smart (OKH2...)	6 cm	6 cm	9 cm	8 cm	8 cm	38-40 cm
Key/tag Smart (PXKEYH...../OKS...)	3.8 cm	3.8 cm	5 cm	5 cm	3 cm	22 cm
MIFARE / DESFire credential Read Range ¹						
Card Serial Number (CSN)	5 cm	5 cm	6.4 cm	7 cm	5 cm	N/A
ISO Support ²	15693: Reads iClass/OmniClass credentials, Card Serial Number; 14443B: Reads iClass/OmniClass credentials (secure)					
Additional ISO Support ²	14443A: Reads Philips MIFARE, DESFire credentials, Card Serial Number (CSN)					N/A
Key Length	64 bit secret key					
Data Encryption	Available between card and reader					
Regulatory Approvals	UL294/cUL, FCC, CE, RoHS					
Operating Temperature	-35°C to 65°C					-30°C to 65°C
Operating Humidity	5 to 95% relative humidity (non-condensing)					
Operating Voltage Range	5 - 16 VDC					12 - 24 VDC
Current (@12VDC)	55mA avg, 112mA peak	55mA avg, 116mA peak	55mA avg, 121mA peak	55mA avg, 121mA peak	85mA avg, 116mA peak	420mA avg, 1300mA peak
Termination	9 wire 45 cm Pigtail					9 wire Terminal block
Tamper Output	Available (Optical sensor)					
Hold Wire Input	Yes					
Panel Interfaces	(All built-in) Wiegand					
IP Rating	IP55					
Warranty ³	Limited Lifetime					

¹ Actual operating distance will vary depending on installation environment and proximity to metal.

² Certain ISO cards may only be able to read serial number. Please consult factory for exact compatibility.




³ See Honeywell Security Group's Sales Policy for complete details.

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SPECIFICATIONS

OMNIPROX AND HID PROX MULTI TECHNOLOGY READERS

						
	OM16BHONCS	OM17BHONCS	OM41BHONCS	OM42BHONCS	OM56BHONCS	OM57BHONCS
Dimensions	4.8 x 15.3 x 2.3 cm		8.4 x 12.2 x 2.4 cm		8.5 x 12.2 x 2.8 cm	
iClass / OmniClass Credential Read Range ¹						
2k Smart (OKP0...)	8.3 cm		11 cm		11 cm	
16k Smart (OKP2...)	8.3 cm		11 cm		11 cm	
Key/tag Smart (PXKEYH...../OKS...)	4 cm		5 cm		4 cm	
MIFARE / DESFire credential Read Range ¹						
Card Serial Number (CSN)	5 cm		5 cm		5 cm	
Proximity HID PROX Credential Read Range ¹						
PVC Card (PVCH4/5)	9 cm	N/A	9 cm	N/A	9 cm	N/A
Key fob (PXKEY3H)	4.5 cm	N/A	5.5 cm	N/A	4.5 cm	N/A
Proximity Indala PROX Credential Read Range ¹						
PVC Card (PVC-I-5)	N/A	5 cm	N/A	5 cm	N/A	5 cm
Key fob (PX-115-I)	N/A	3.2 cm	N/A	4.5 cm	N/A	3.2 cm
ISO Support ²	15693: Reads iClass/OmniClass credentials, Card Serial Number; 14443B: Reads iClass/OmniClass credentials (secure)					
Additional ISO Support ²	14443A: Reads Philips MIFARE, DESFire credentials, Card Serial Number (CSN)					
Key Length	64 bit secret key					
Data Encryption	Available between card and reader					
Regulatory Approvals	UL294/cUL, FCC, CE, RoHS					
Operating Temperature	-35°C to 65°C					
Operating Humidity	5 to 95% relative humidity (non-condensing)					
Operating Voltage Range	5 - 16 VDC					
Current (@12VDC)	55mA avg, 114mA peak		55mA avg, 141mA peak		85mA avg, 169mA peak	
Termination	9 wire 45 cm Pigtail					
Tamper Output	Available (Optical sensor)					
Hold Wire Input	Yes					
Panel Interfaces	(All built-in) Wiegand					
IP Rating	IP55					
Warranty ³	Limited Lifetime					

¹ Actual operating distance will vary depending on installation environment and proximity to metal.

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ORDERING

Readers	Credentials
OmniClass Series Readers	OmniClass Series Credentials
OM15BHONCS OmniClass Mullion Mount Reader, Black Bezel	OKP0N26 OmniClass 2K2 PVC Card (26-bit)
OM30BHONCS OmniClass Mullion Mount Reader, Black Bezel	OKP0N34 OmniClass 2K2 PVC Card (34-bit)
OM40BHONCS OmniClass Switch Plate, Single-gang (US) Reader, Black Bezel	OKP2N26 OmniClass 16K16 PVC Card (26-bit)
OM45BHONCS OmniClass Switch Plate, Single-gang (UK/EU/Asian) Reader, Black Bezel	OKP2N34 OmniClass 16K16 PVC Card (34-bit)
OM55BHONCS OmniClass Reader with Keypad, Black Bezel	PXKEYH16K1626 OmniClass 16K16 Key fob (26-bit)
OM70BHONC OmniClass Long Range Reader	PXKEYH16K16 OmniClass 16K16 Key fob (34-bit)
	OmniClass Series Special Credentials
	OKP2M26 OmniClass 16K16 PVC Card (26-bit) with Magnetic Stripe
	OKP2M34 OmniClass 16K16 PVC Card (34-bit) with Magnetic Stripe
	OKH2N26 OmniClass 16K16 PVC Card plus HID Prox (26-bit)
	OKH2N34 OmniClass 16K16 PVC Card plus HID Prox (34-bit)
	OKH2M26 OmniClass 16K16 PVC Card plus HID Prox (26-bit) with Magnetic Stripe
	OKH2M34 OmniClass 16K16 PVC Card plus HID prox (34-bit) with Magnetic Stripe
	OKS2N26 OmniClass 16K16 Sticker (26-bit)
	OKS2N34 OmniClass 16K16 Sticker (34-bit)
OmniClass and HID Prox Multi Technology Readers	Compatible HID Prox Credentials
OM16BHONCS OmniClass and HID Prox Mullion Reader, Black	PVCH4 PVC Card HID Prox, 34 bit
OM41BHONCS OmniClass and HID Prox US Gangbox / Wall Reader, Black	PVCH4-26 PVC Card HID Prox, 26 bit
OM56BHONCS OmniClass and HID Prox reader with Keypad, Black	PVCH5 PVC Card HID Prox, 34 bit, with Magnetic Stripe
	PVCH5-26 PVC Card HID Prox, 26 bit, with Magnetic Stripe
	PX4H Clamshell Card HID Prox, 34 bit
	PX26H Clamshell Card HID Prox, 26 bit
	PXKEY3H Proximity Key fob HID Prox, 34 bit
	PXKEY3H26 Proximity Key fob HID Prox, 26 bit
OmniClass and Indala Prox Multi Technology Readers	Compatible Indala Prox Credentials
OM17BHONCS OmniClass and Indala Prox Mullion Reader, Black	PVC-I-5 PVC Card Indala Prox
OM42BHONCS OmniClass and Indala Prox US Gangbox / Wall Reader, Black	PVC-I-6 PVC Card Indala Prox, with Magnetic Stripe
OM57BHONCS OmniClass and Indala Prox Reader with Keypad, Black	PX-121-I Clamshell Card Indala Prox
	PX-115-I Proximity Key fob Indala Prox

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For additional information,

please visit www.honeywell.com/security/me

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HAS-OMNICLASS-04-ME(0212)DS-E
February 2012
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