





## iCLASS<sup>®</sup> 13.56 MHz HID Readers

### Overview

iCLASS<sup>®</sup> 13.56 MHz readers make access control more powerful, more versatile and offer enhanced security through data encryption and mutual authentication between the card and reader. iCLASS readers are user-friendly, delivering the same convenience and reliability of HID's world-renowned Prox technology, with state-of-the-art features, driven by evolving industry requirements. Upgrading from Prox to iCLASS technology has never been so simple. All iCLASS readers provide the same wiring connections, low-current consumption and 5 to 16 volt operation as our Prox readers.

	<p>The 6100 and 6120 iCLASS<sup>®</sup> readers make access control more powerful, more versatile, and offer enhanced security through data encryption and mutual authentication between the card and reader.</p>
	<p>The 6125 iCLASS<sup>®</sup> reader is designed for customers upgrading their current card system from the most popular proximity technologies to iCLASS<sup>®</sup> credentials. With the RP40, the customer has the ability to transition to smart cards over time while incorporating the use of multiple card technologies. Mounting plate attaches to U.S./EU/Asian back box, 52-60 mm screw hole spacing (vertical or horizontal), or to any flat surface.</p>
	<p>The 6130 iCLASS<sup>®</sup> reader provides the upgrade features of the 6125 reader with an additional keypad. Mounting plate attaches to U.S./EU/Asian back box, 52-60 mm screw hole spacing (vertical or horizontal), or to any flat surface.</p>
	<p>The 6150 iCLASS<sup>®</sup> Long Range Reader is ideal for installations incorporating parking control and long read range applications.</p>

### Features

- Same wiring, power and interface as many popular proximity readers in the market today.
- Offers high reliability, consistent read-range and low power consumption in an easy-to-install package.
- Provides multicolor LED, compatibility with all standard access control systems and internal or host control of LED and beeper.
- Rugged, weatherized polycarbonate enclosure, designed to withstand harsh environments, provides reliable performance and resistance to vandalism.
- With iCLASS<sup>®</sup> credentials, 64-bit authentication keys are extremely secure. Readers and cards require matching keys to function. All RF data transmission between the card and reader is encrypted, using a secure algorithm. The key management system reduces the risk of compromised data or duplicated cards.

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### Specifications

**Operating temperature:**

-35° to 150° F (-40° to 65° C)

**Operating humidity:**

5-95% relative humidity non-condensing

**Transmit frequency:**

13.56 MHz

**Certifications:**

FCC Certification, Canada Certification, CE Mark (EU), Australia C-Tick, New Zealand

**Pending Certifications:**

UL 294/cUL, Taiwan, Korea, Japan, China, IP

**Cable distance:**

Wiegand Interface

100 feet (30.5 m) - 22 AWG

500 feet (150 m) - 18 AWG

• Recommended cable is ALPHA 1295 (22AWG).

### Individual Specifications

Model	Dimensions	Power Supply	Current Requirements	Card Compatibility
6100 Reader	1.90" x 4.04" x .90" (4.83 cm x 10.26 cm x 2.86 cm)	5 to 16 VDC. Linear supply	50/75 mA @ 12 VDC	13.56 MHz contactless smart cards • ISO 15693 - read only; 2k bit (256 Byte), 16k bit (2k Byte) and 32k bit (4k Byte); serial number
6120 Reader	3.30" x 4.80" x .95" (8.38 cm x 12.19 cm x 2.41 cm)	5 to 16 VDC. Linear supply	50/75 mA @ 12 VDC	• ISO 14443A - read only; MIFARE and DESFire® (serial number) • ISO 14443B - read only; 2k bit (256 Byte) and 16k bit (2k Byte) • US Government PIV • FeliCa IDm
6125 Reader	3.3" x 4.8" x .95" (8.4 cm x 12.2 cm x 2.4 cm)	5 to 16 VDC. Linear supply	50/75 mA @ 12 VDC	125 kHz Proximity • HID or Indala proximity cards, keyfobs, and tags • AWID Credentials
6130 Reader w/Keypad	3.3" x 4.8" x 1.05" (8.4 cm x 12.2 cm x 2.7 cm)	5 to 16 VDC. Linear supply	80/100 mA @ 12 VDC	13.56 MHz contactless smart cards • ISO 15693 - read only; 2k bit (256 Byte), 16k bit (2k Byte) and 32k bit (4k Byte); serial number • ISO 14443A - read only; MIFARE and DESFire® (serial number) • ISO 14443B - read only; 2k bit (256 Byte) and 16k bit (2k Byte) • US Government PIV • FeliCa IDm
6150 Long Range Reader	12" x 12" x 1.25" (30.48 cm x 30.48 cm x 3.175 cm)	12 - 24 VDC. Linear supply	420/1300 mA @ 12 VDC	• ISO 15693 - read only; 2k bit (256 Byte), 16k bit (2k Byte), and 32k bit (4k Byte) iCLASS credentials • ISO 15693 - read only card serial number (CSN)

### How to Buy

Model	Part Number	Description
6100	SEC-6100BKN01	R10 Read Only Contactless Smart Card Reader, Wiegand Output, Mullion Mount Size
6120	SEC-6120BKN01	R40 Read Only Contactless Smart Card Reader, Wiegand Output, US/EU/Asian Back Box Size
6125	SEC-6125BKN01	RP40 MultiCLASS™ Read Only Multi Technology Reader, HID Prox, iCLASS & FIP201 Technologies, Wiegand Output, US / EU / Asian Back Box Size
6130	SEC-6130BKN01	RK40 Read Only Contactless Smart Card Reader, Wiegand Output, US/ EU/Asian Back Box Size, with Keypad
6150	SEC-6150BKN01	R90 Long Range Contactless Smart Card Reader, Wiegand Output

### Contact Information

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### About Vykon

The Vykon Suite of products and enterprise applications is powered by the Niagara Framework, and targets specific application needs in key markets served by Tridium. Vykon Building, Vykon Energy, and Vykon Security enable facilities managers, building owners, energy service companies, and systems integrators to integrate proprietary and otherwise incompatible products into a unified enterprise solution. This allows personnel using a standard web browser to measure, manage, and control a wide variety of building automation, security, and energy applications from anywhere in the world.