

# Niagara Security 13.56 MHz Readers

## Overview

iCLASS® 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.

The 6100 and 6120 iCLASS® readers make access control more powerful, more versatile, and offer enhanced security through data encryption and mutual authentication between the card and reader.



The 6125 iCLASS® reader is designed for customers upgrading their current card system from the most popular proximity technologies to iCLASS® 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.



The 6130 iCLASS® 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.



The 6150 iCLASS® Long Range Reader is ideal for installations incorporating parking control and long read range applications.



## 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® 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.

## Specifications

### Operating temperature:

- -35° to 150° F (-40° to 65° C)
- Operating humidity:
- 5-95% relative humidity non-condensing

### Certifications:

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

### Pending Certifications:

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

### Transmit frequency:

- 13.56 MHz

### 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 <ul style="list-style-type: none"> <li>• ISO 15693 - read only; 2k bit (256 Byte), 16k bit (2k Byte) and 32k bit (4k Byte); serial number</li> <li>• ISO 14443A - read only; MIFARE and DESFire® (serial number)</li> <li>• ISO 14443B - read only; 2k bit (256 Byte) and 16k bit (2k Byte)</li> <li>• US Government PIV</li> <li>• FeliCa IDm</li> </ul>
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	
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	
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	<ul style="list-style-type: none"> <li>• ISO 15693 - read only; 2k bit (256 Byte), 16k bit (2k Byte), and 32k bit (4k Byte) iCLASS credentials</li> <li>• ISO 15693 - read only card serial number (CSN)</li> </ul>
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 <ul style="list-style-type: none"> <li>• HID or Indala proximity cards, key-fobs, and tags</li> <li>• AWID Credentials</li> </ul> 13.56 MHz contactless smart cards <ul style="list-style-type: none"> <li>• Same as 6100 Reader</li> </ul>

## Ordering Information

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

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