Ruggedly Smart Reader

iRox™ / iRox Pro™ Series

iRox™ and iRox Pro™ are heavy duty touchless RFID smart card readers with a low profile, vandal and ligature resistant design. The new iRox Pro features OSDP Secure Channel and supports HID® Mobile Access® solutions including employee badge and Student ID in Apple Wallet.

IRX - 1S

IRXPO - 2B

- HID Seos®, iCLASS SE® or multiCLASS SE®
- Wiegand or OSDP Secure Channel
- Genuine HID Technology™
- All Weather IP 66 Rated
- Up to 3" Read Range
- Vandal and Ligature Resistant
- Stainless Steel Construction
- Epoxy Encapsulated Electronics
- Stainless Steel or Matte Black Finish
- Designed and Manufactured in the USA

Essex Electronics
1-800-KEYLESS keyless.com

iRox™ / iRox Pro™ Series — Rugged Smart Card Readers

iRox™ & iRox Pro™ are heavy duty RFID smart card readers with Genuine HID Technology™. iRox readers feature stainless steel construction, epoxy encapsulated electronics, audio/visual feedback with a vandal and ligature resistant design. iRox Pro readers offer support for HID Mobile Access solutions including employee badge and Student ID in Apple Wallet.

IRX-1B

IRXPO-2S-LRB

Features

All Weather Design
Epoxy encapsulated electronics ensures superior performance in extreme locations.

Vandal & Ligature Resistant Construction
304 Stainless Steel faceplate with recessed electronics. Ligature Resistant Bezel (LRB-2) available for single gang readers.

Audio/Visual Feedback
Audio/visual indication when a credential is presented to the reader. Audio and visual feedback can be host controlled.
Wiegand: Blue to Green
OSDP: Red, Green, Blue or Custom

Mounting Method
IRXxx-1: Mullion mount
Add spacer ring (SP-1) for surface mount

IRXxx-2: Single Gang
Flush mount on a single gang switchbox.
Add extension box (BAK BOX-SGE) or angled stainless backbox (BAK BOX-SGS)

IRXxx-3: Double Gang
Flush mount on a double gang switchbox

Mobile Access Enabled
iRox Pro: NFC support for HID employee badge and Student ID in Apple Wallet.

Customization Options
Add a custom logo to the lens or faceplate

Specifications

Power Requirements
5 or 12VDC field selectable

Output
iRox/iRox Plus: Wiegand
iRox Pro/iRox Pro Plus: Field select Wiegand or OSDP Secure Channel

Transmit Frequency
iRox (IRX): 13.56 MHz
iRox Plus (IRXP): 13.56 MHz & 125 kHz
iRox Pro (IRXO): 13.56 MHz
iRox Pro Plus (IRXPO): 13.56 MHz & 125 kHz

Credential Compatibility
125 kHz: HID Proximity, Indala
13.56 MHz: Seos®, iCLASS®, iCLASS SE®, MIFARE®, DESFire® EV1/EV2, FeliCA
iRox Pro provides support for NFC via HID Mobile Access

Typical Read Range
Up to 3" depending on credential and installation.

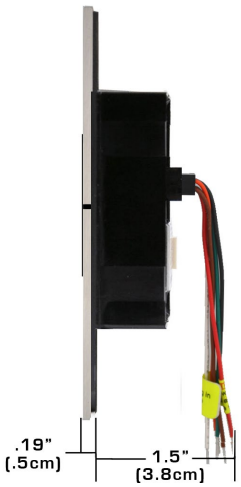
Current Draw
90mA Standby 300mA Peak

Operating Temperature & Humidity
- 31°F to + 149°F (- 35°C to + 65°C)
100% Relative Humidity

Environmental Rating
IP66 Rated (with proper installation)

Dimensions

	Height	Width	Depth	Weight
IRXxx-1	4 ½"	1 ¾"	1"	5 oz. (142 gm)
IRXxx-2	4 ½"	2 ¾"	1"	7 oz. (200 gm)
IRXxx-3	4 ½"	4½"	1"	14 oz. (400 gm)



Side View

Ordering Guide

A – Choose Model

IRX • iRox™ with 13.56 MHz iCLASS SE®
IRXP • iRox Plus™ with 13.56 MHz + 125 kHz multiCLASS SE®
IRXO • iRox Pro™ with 13.56 MHz iCLASS SE/OSDP
IRXPO • iRox Pro+™with13.56 MHz + 125 kHz multiCLASS SE/OSDP

B – Choose Faceplate Size

A • No Faceplate
1 • Mullion/Narrow
2 • Single Gang
3 • Double Gang

C – Choose Finish

B • Black
S • Stainless

D – Options

LRB • Ligature Resistant Bezel (single gang only)

Example

A MODEL — C FINISH

IRXO - 2 S - LRB

B SIZE — D OPTION

Accessories

SP-1
Narrow Spacer

LRB-2
Ligature Resistant Bezel

BAK BOX-SGE
Back Box Extender

BAK BOX-SGS
Stainless Steel Back Box

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