

CX SERIES

**A SMART CHOICE
FOR GREAT VALUE!**



**CASI-RUSCO® COMPATIBLE
PROXIMITY PRODUCT LINE**

INDALA CX SERIES



INDALA OFFERS CASI® CUSTOMERS A NEW CHOICE FOR QUALITY, AVAILABILITY, AND AFFORDABILITY.

The CX Series is designed and manufactured by Indala specifically for use with the CASI® ProxLite® products. The CX Series offers the most popular wall switch type proximity reader and many credential options. Use CX Series products for new systems, retrofits, or system additions!

All CX-8525 readers are backwards compatible, providing you peace of mind. It does not matter whether you are supporting 10 or 12 digit ProxLite® formats – the CX-8525 reader works with both.

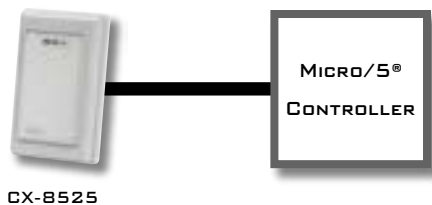
The CX-8525 is equipped with an industry standard Wiegand output. If the system is ever upgraded to a Wiegand compatible

control panel, simply select the Wiegand output mode. There is no need to install new readers or re-issue employee badges!

Because Indala readers and cards are manufactured and tested to the highest quality standards, we offer a **lifetime warranty** on all CX Series products.

(Please consult Indala's Sales Policy for complete warranty details.)

SYSTEM INTEGRATION



CX-8525



FLEXPASS™
READER

CX-WGF2F

INDALA CX-8525 PROXIMITY READER

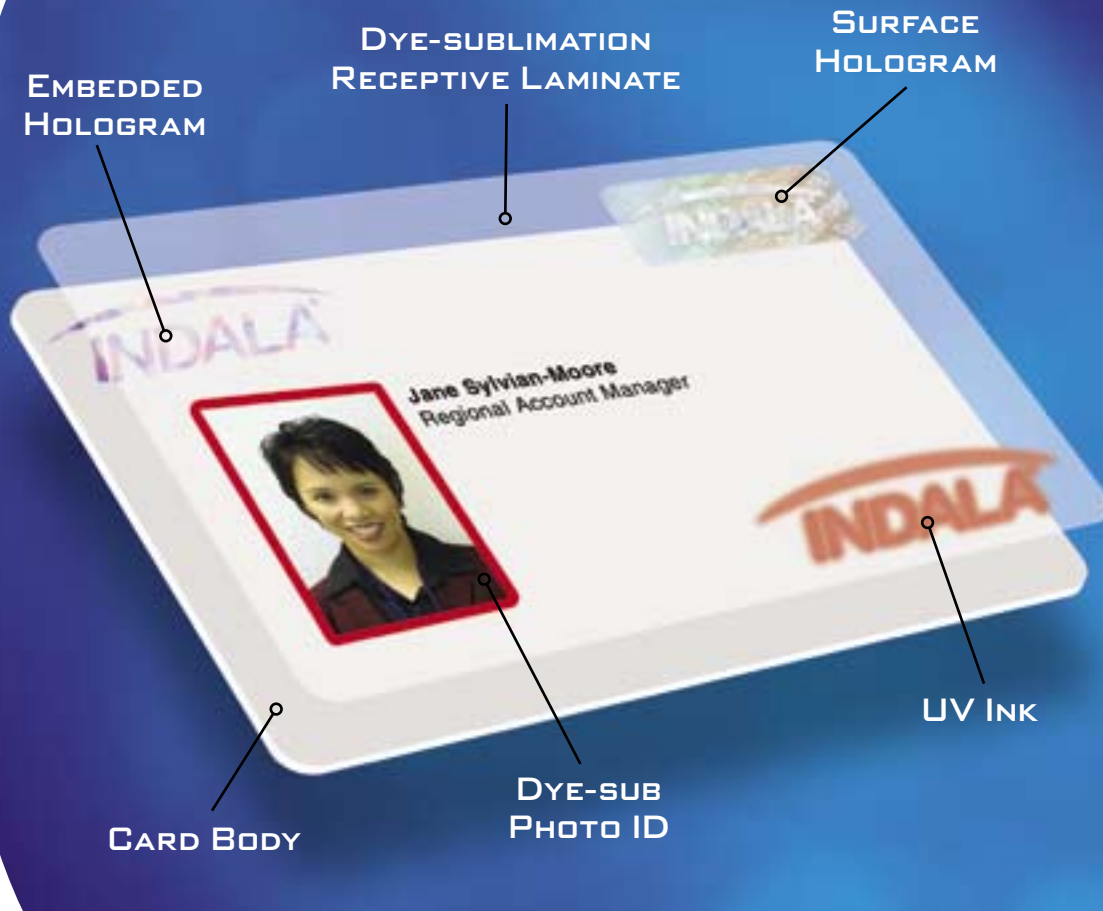
- + Connect up to sixteen (16) Indala CX-8525 Readers to a Micro/5® Controller (2x8RP).
- + No adapters needed!
- + Equipped with a selectable Wiegand output to allow connection to other control panels.
- + CX-8525 readers have a lifetime warranty.

INDALA CX-WGF2F WIEGAND/F2F ADAPTER

- + Use one Wiegand/F2F Adapter per reader.
- + Use Indala FlexPass or any other reader with standard Wiegand output.
- + FlexPass readers have a lifetime warranty.

By selecting Indala CX Series readers and cards, the “inside” of your card is secure. Now it is important to consider the security on the outside of your card to protect it from counterfeiters. Providers of financial services such as MasterCard® and VISA® have been providing anti-counterfeiting protection on low-technology (magnetic stripe) cards for years. In today’s vulnerable world, it just makes sense to economically add an additional security layer to the outside of your card.

CX PREMIER



The CX Premier program cost-effectively provides customers with covert and overt anti-counterfeiting elements. Standard options include:

Ultra-violet (UV) Fluorescent Inks are covert anti-counterfeiting elements. Invisible to the naked eye, these inks can verify the authenticity of a card when placed under a black ultra-violet light.

For enhanced security, Indala offers an ultra-violet fluorescent ink in a red pigment. Red pigments are considered to be rarer than the standard blue-violet fluorescing pigment, thus signifying a higher level of security.

Holograms are overt anti-counterfeiting elements. Widely accepted in the financial and banking world, holograms are easily recognizable by security personnel, allowing for quick identification of counterfeit cards.

- **Surface holograms** are usually placed in one corner on the front of the card. Indala increases security by offering custom holograms that can be registered. Registration restricts the hologram from being used by anyone but the registered owner, resulting in a higher level of security.
- **Embedded holograms** are positioned underneath the clear outer layer of the card and are fully protected from surface abrasion. This technique also allows for full dye sublimation near and over the hologram image. (Note: due to the clear outer layer, embedded holograms are slightly less brilliant.)

Whichever anti-counterfeiting option you choose,
CX PREMIER secures your card on the outside!

CX SERIES CREDENTIAL SPECIFICATIONS

Credential*	CX-CRD	CX-PL5	CX-ISOXT	CX-ISO	CX-KEY
Description	Clamshell Card	CASI®-style Card	Composite Card	Imageable Card	Keyfob
Part Number	CX-CRD	CX-PL5	CX-ISOXT	CX-ISO	CX-KEY
Dimensions	3.38"H x 2.13"W x 0.065"T (86 mm x 54 mm x 1.8 mm)	3.38"H x 2.12"W x 0.049"T (86 mm x 54 mm x 1.2 mm)	3.38"H x 2.12"W x 0.03"T (86 mm x 54 mm x 0.76 mm)	3.38"H x 2.12"W x 0.03"T (86 mm x 54 mm x 0.76 mm)	1.725"H x 1.197"W x 0.215"T (43.8 mm x 30.4 mm x 5.46 mm)
Read Range	Up to 5" (12.7 cm)	Up to 5" (12.7 cm)	Up to 5" (12.7 cm)	Up to 5" (12.7 cm)	Up to 2" (5.08 cm)
Weight	0.4 oz (12 g)	0.30 oz (8.6 g)	0.20 oz (6 g)	0.20 oz (6 g)	0.191 oz (5.4 g)
Operating Temperature	-22° to 149° F -30° to 65° C	-22° to 158° F -30° to 70° C	-22° to 158° F -30° to 70° C	-22° to 122° F -30° to 60° C	-22° to 149° F -30° to 65° C
Material	PVC	PVC	Composite	PVC	PVC
Slot Punch	Standard vertical slot punch included	Optional vertical or horizontal	Optional vertical or horizontal (locations indicated on card)	Optional vertical or horizontal (locations indicated on card)	Standard vertical opening, large enough for a badge clip
Magnetic Stripe	Not Available	Not Available	Optional embedded 3-track high coercivity (4000 or 2750 oersted)	Optional embedded 3-track high coercivity (4000 or 2750 oersted)	Not Available
Wiegand Swipe	Not Available	Optional	Optional	Optional	Not Available
Contact Smart Chip Module	Not Available	Not Available	Optional	Optional	Not Available
13.56 MHz Technology	Not Available	Not Available	Optional	Optional	Not Available
Finish - Front	White textured front with Indala logo	CX Series artwork	White glossy front	White glossy front	Blue textured front with Indala logo
Finish - Back	White beveled back with embossed Indala logo	White glossy back with Indala logo	White glossy back with slot punch indicators; Indala logo	White glossy back with slot punch indicators; Indala logo	Blue textured back with inkjet strip
Dye Sublimation Print Ready	Check printer specification	Not Available	YES	YES	Not Available
Custom Artwork	Available on both front and back sides with customer supplied artwork	CX Series artwork on front	Available on both front and back sides with customer supplied artwork	Available on both front and back sides with customer supplied artwork	Available on front side with customer supplied artwork
Inkjet Marking	Lower right-hand corner of back side includes batch code.	Lower right-hand corner of back side includes batch code.	Lower right-hand corner of back side includes batch code.	Lower right-hand corner of back side includes batch code.	Printed strip on the back side includes batch code.
Programming	Factory programmable	Factory programmable	Factory programmable	Factory programmable	Factory programmable
Coding	Random F/2F	Random F/2F	Random F/2F	Random F/2F	Random F/2F
Color	White	Logo front, white back	White	White	Blue

Looking for credential options not shown here? Call Indala Customer Service to discuss your requirements. All CX Series credentials have a lifetime warranty. Please consult Indala's Sales Policy for complete details. *See Cross Reference Chart on the back of this brochure.



FEATURES and BENEFITS

Independently controlled audio and LED (red, yellow, and green) indicators provide immediate feedback of reader operation.

Standard, supervised, or silent supervised modes allow you to configure the reader to provide the level of verification needed.

Door switch and Request-To-Exit inputs add functionality and security.

Selectable Wiegand output saves time and money when changing to a Wiegand compatible control panel. You can avoid reinstalling readers or rebadging cardholders.

Attractive styling that matches existing installations.

Internal tamper switch provides immediate notification if the reader is tampered with.



THE CX-8525 READER CAN SUPPORT ALL YOUR PROXLITE® CREDENTIALS FOR BOTH RETROFIT AND NEW INSTALLATIONS.

CX-8525 READER SPECIFICATIONS

- Dimensions:** 2.90"H x 4.75"W x 1.95"T
7.37 cm x 12.07 cm x 4.95 cm
- Read Range:** Up to 5" (12.7 cm)
- Input Voltage:** 10 -14 VDC at reader; reverse voltage protected, linear power supply recommended
- Current Draw:** 75 mA @ 12 VDC
- Operating Temp.:** -22° to 150° F
-30° to 65° C
- LED Indicator:** 3 LED's (red, yellow, and green)
- Audio Tone:** Standard, independently controllable
- Output Format:** F/2F, Wiegand 40 bit
- Frequency:** 130 kHz (excitation)
- Read Time:** 200 ms (from read to data output)
- Reader Configuration (switch selectable):**
 - Standard or Supervised Mode
 - Silent Supervised (On or Off)
 - Wiegand Output (On or Off)
 - 10 or 12 digit ProxLite® output
- Approvals:** UL294/cUL, FCC Certification (USA), Canada Certification, CE Mark – Europe, Australia C-Tick, New Zealand/EMC
- Color:** Gray
- Indala Part Number:** CX-8525

Cable Recommendation:

- 24 AWG (0.60 mm), 10-conductor, with an overall foil shield, Belden 9540 or equivalent 500' (152 m)
- 22 AWG (0.80 mm), 10-conductor, with an overall foil shield, Alpha 1299/10C or equivalent 1000' (304 m)
- 18 AWG (0.80 mm), 12-conductor, with an overall foil shield, Alpha 55390/12 or equivalent 2000' (608 m)



CX-CRD CARD



- CX-CRD is a clamshell (2 piece card body) style credential with beveled edges.
- + Card is 0.065" (1.8 mm) thick
 - + Durable construction with vertical slot punch
 - + Adhesive overlays available; check printer specifications for direct print capability
 - + Lifetime Warranty*

CX-PL5 CARD



- CX-PL5 is equivalent to the CASI® ProxLite® card.
- + Card is 0.049" (1.2 mm) thick
 - + Pre-printed with CX Series artwork
 - + Custom artwork available
 - + Durable and rigid construction
 - + Lifetime Warranty*

CX-ISOXT CARD



- CX-ISO XT is the latest technology in composite card bodies. The XT combines the convenience of a flexible thin card with the durability of the traditional thick card.
- + Card is 0.030" (0.76 mm) thick and complies with ISO7813 standards.
 - + Composite materials create a long life thin card
 - + Increased heat resistance of the card offers better direct-to-card printing results
 - + Magnetic stripe and custom artwork is optional
 - + Lifetime Warranty*

CX-ISO CARD



- CX-ISO is a thin credit card sized credential that complies with ISO7813 standards.
- + Card is 0.030" (0.76 mm) thick
 - + Imageable with standard direct-to-card printers
 - + Magnetic stripe option as well as multiple technologies (i.e. smart chips)
 - + Flexible design for added convenience and storage in wallet or pocket
 - + Lifetime Warranty*

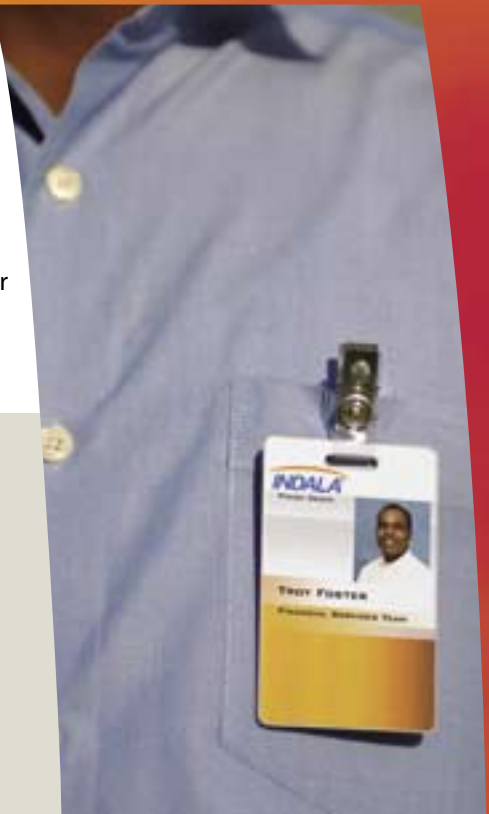
CX-KEY KEYFOB



- CX-KEY is the stylish keyfob that is easily attached to a lanyard, key ring, or badge holder.
- + Ultrasonically sealed for the harshest environments
 - + Modern design and see-through case increases appeal
 - + Lifetime warranty*

For complete credential information, please see the CX Series Credential Specifications chart in this brochure.

*For complete warranty details, please consult Indala's Sales Policy.



CX - WGF2F ADAPTER

FEATURES and BENEFITS

Enables easy retrofits by converting any 26 bit Wiegand card data into CASI®/F2F data.

Saves time by monitoring door switch status and Request-to-Exit inputs.

Professional looking, compact unit mounts in standard double gang electrical box with coverplate.



Indala's CX Wiegand/F2F Adapter allows you to connect Indala FlexPass proximity readers to CASI® Reader Processor boards.

Connect industry standard Wiegand readers to a CASI® 8RP interface board in any Micro/5® Control Panel. One Wiegand/F2F Adapter is required per reader, typically to be installed near the door location. Indala proximity readers, or any other Wiegand output reader, combined with the adapter, provides end-to-end supervision of the data cable, meeting the original CASI® system specification.

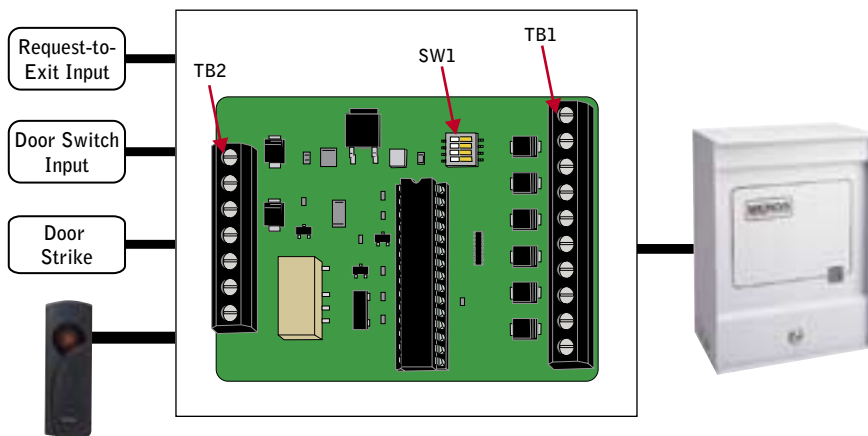
The Wiegand/F2F Adapter duplicates special functions provided by CASI® systems such as Request-to-Exit (REX), door switch status, and door strike output.

CX-WGF2F ADAPTER SPECIFICATIONS

- Size:** 2.25" x 3.0" (5.715 cm x 7.620 cm)
- Power Requirements:** 9-16 VCD
Reverse voltage protected
Linear power supply recommended
- Current Requirements:** 100mA @ 12 VDC
- Operating Temperature:** -22° to 150° F (-30° to 65° C)
- Operating Humidity:** 5% to 95% relative humidity, non-condensing
- Cable Distance:** 18 AWG = Max. Cable Distance to Panel (Power) 1000 feet (304 meters)
22 AWG = Max. Cable Distance to Panel (Signal) 1000 feet (304 meters)
- Cable Recommendations:** From panel to F2F adapter = Alpha 1295C, 22 AWG 5-conductor
From F2F adapter to reader = Alpha 1296C, 22 AWG 6-conductor
From REX & Door Switch Inputs = 22 AWG 2-conductor
For Door Strike Output = 18 AWG 2-conductor
All cables stranded with overall shield.
- UL Rating:** UL294
- Indala Part Number:** WGF2F

SW1	SWITCH POSITION	
	OFF	ON
1	Default	Not Used
2	Standard 26-bit	Not Used
3	Default	Not Used
4	No Two-State Switch status message sent to CASI® panel	Two-State supervised mode - sends status message to CASI® panel

TB1	SIGNAL
10	+12 VDC Power
9	-12 VDC Ground
8	Beeper Control
7	LED Control
6	Data 0
5	Data 1
4	Exit DI Switch
3	Exit DI Common
2	Door DI Switch
1	Door DI Common



TB2	SIGNAL
1	+12 VDC Power
2	-12 VDC Ground
3	Door Strike Control DO
4	Reader Data 1
5	Door Strike Relay Normally Closed
6	Door Strike Relay Common
7	Door Strike Relay Normally Open

CX Series CROSS REFERENCE CHART

Indala Part Number	CASI-RUSCO® Part Number	Description
CX-WGF2F	4033BGN00	Interface Adapter. Converts Wiegand to F2F
CX-CRD	700149001	CASI® Entree® compatible proximity card
CX-PL5	700182001	CASI ProxLite® compatible card
CX-IS0	700183001	CASI® ISO ProxLite® compatible card
CX-Key	700095001	CASI® ProxLite® compatible keyfob
CX-IS0 XT	N/A	CASI® ISO ProxLite® compatible extra long life composite card
CX-8525	430084001	CASI® Model 940 Proximity Perfect® compatible reader

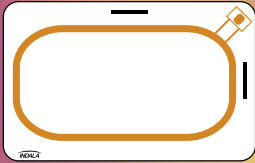
CX-ISO Credential Selection Guide

PROXIMITY CARD

Works with the Indala CX-8525 proximity readers and CASI® ProxLite® readers.

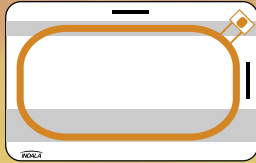
CX-IS0

without magstripe



1. 125 kHz Proximity
2. Horizontal / Vertical Slot Punch

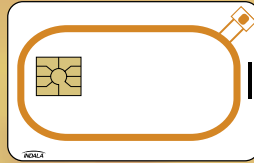
with magstripe



1. 125 kHz Proximity
2. Horizontal / Vertical Slot Punch
3. Magnetic Stripe (optional)
4. Debitek® Stripe (optional)

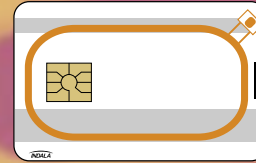
CX-IS0SMT

without magstripe



1. 125 kHz Proximity
2. Vertical Slot Punch
3. Contact Smart Chip (optional)

with magstripe



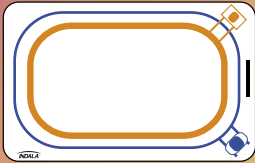
1. 125 kHz Proximity
2. Horizontal / Vertical Slot Punch
3. Contact Smart Chip (optional)
4. Magnetic Stripe (optional)
5. Debitek® Stripe (optional)

PROXIMITY & CONTACTLESS SMART CARD

Works with CASI® ProxLite® and MIFARE® contactless smart card readers. Provides a migration path to a contactless smart card system.

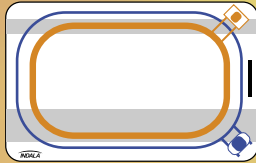
CX-IS0MIF

without magstripe



1. 125 kHz Proximity
2. 13.56 MHz MIFARE Contactless Smart Chip
3. Vertical Slot Punch

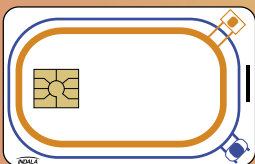
with magstripe



1. 125 kHz Proximity
2. 13.56 MHz MIFARE Contactless Smart Chip
3. Vertical Slot Punch
4. Magnetic Stripe (optional)
5. Debitek® Stripe (optional)

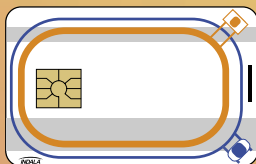
CX-IS0MSC

without magstripe



1. 125 kHz Proximity
2. 13.56 MHz MIFARE Contactless Smart Chip
3. Vertical Slot Punch
4. Contact Smart Chip (optional)

with magstripe

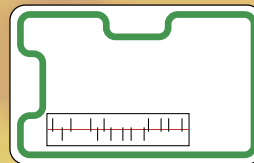


1. 125 kHz Proximity
2. 13.56 MHz MIFARE Contactless Smart Chip
3. Vertical Slot Punch
4. Contact Smart Chip (optional)
5. Magnetic Stripe (optional)
6. Debitek® Stripe (optional)

PROXIMITY & WIEGAND CARD

Works with CASI® ProxLite® and Wiegand swipe readers.

CX-IS0WGD



LEGEND

- Contact Smart Chip Module
- 125 kHz proximity antenna and chip
- 13.56 MHz MIFARE contactless smart chip and antenna
- Magnetic Stripe (1, 2, or 3 track, low or high coercivity; additional options including Debitek® available)
- 125 kHz proximity and Wiegand code strip
- Durable PVC thin card with vertical or horizontal slot punch and high quality printing surface for photo ID and barcode. (ISO 7816 and 7810 compliant).

All CX-ISO cards have a lifetime warranty, with the exception of cards featuring contact smart chips and magnetic stripes. Please see Indala's Sales Policy for specific warranty information.

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Specifications subject to change without notice. Indala reserves the right to discontinue any product without notice. Read range stated when readers installed according to instructions. Read range may vary when readers are mounted on metal.

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