



INDALA

FLEXSMART™

13.56 MHz CONTACTLESS READERS

A wide range of advanced readers in a variety of styles for multiple applications



From entry level to the fastest transaction speeds, Indala FlexSmart™ readers deliver it all.

IX INTRO – Standard transaction speed (53Kbps) and basic security.

MX MIFARE® – High transaction speed (106Kbps) and strong security.

DX DESFire™ – Very high transaction speed (848Kbps) and very strong security.
U.S. Government FIPS 201 compliant.

FlexSmart™ from Indala, a new series of easy-to-use, attractive, and reliable contactless smart card readers, is designed for a wide variety of applications ranging from entry level access control to secure ID management. Using the world's most popular industry-standard 13.56 MHz technology from Philips, Indala contactless readers provide reliable performance and many technology options.



FlexSmart™ IX200 – INTRO (ISO 15693 Compatible)

The ISO 15693 standard has traditionally been identified with article ID applications due to its longer read range potential. With the IX200 range of readers, Indala is now able to use this technology's features to offer an entry level access control solution for projects calling for 13.56 MHz technology—without the need for multiple applications or larger memory sizes. The IX200 Series of readers complies with the requirements of ISO 15693. It is ideal for end users who are transitioning from a 125 kHz proximity access control system to a high frequency 13.56 MHz solution.

FlexSmart™ MX200 – MIFARE® (ISO 14443A Compatible)

The MX200 Series of readers can be configured to read any MIFARE® or ISO 15693 Card Serial Number (CSN), or data within a secured MIFARE® card sector when programmed with the matching keys. MIFARE® is the most popular contactless smart card solution in the world today. The MX200 series of readers complies with the requirements of ISO 14443A. It is the perfect choice for standard encrypted ID, data storage solutions, and multiple applications.

- Access Control
- IT-Access
- Biometric Storage
- Library Card
- Cashless Payment
- Parking
- Time and Attendance
- Membership
- Parking Solutions
- Loyalty



Technical Flexibility

The new Indala 13.56 MHz FlexSmart reader family is compatible with INTRO (ISO 15693), MIFARE®, and DESFire™ technologies. Customers simply choose the Indala reader series with standard programming or specify the data format and security level that meets their configuration requirements. Indala does the rest. Available in many standard or custom Wiegand formats, FlexSmart readers provide a technically superior solution.

Expanded Design Choices

The stylish FlexSmart reader portfolio from Indala offers more choice than ever—six core models including mullion-mount in two attractive bezel styles (arch and wave) and several popular colors. Combination PIN and contactless smartcard are also available for increased security.

Installation Ease

With its patented, clip-on bezel design, FlexSmart reader installation is literally a “snap”. International mounting positions are available with Indala “EU” sizes. Heavy Duty PIN Pad versions are the ideal choice for harsh environments. All Indala FlexSmart™ readers are fully potted, making them suitable for internal and external applications. FlexSmart readers also meet international standards.

Guaranteed Quality and Reliability

As a proven leader in access control, Indala customers are assured superior quality, customer care, fast shipping, and a Lifetime Warranty.

FlexSmart™ DX200 – DESFire™ (ISO 14443A Compatible)

The DX200 Series provides the highest security, fastest read transaction speed (848Kbps), and most flexible file structure available. DESFire™ provides mutual authentication and true 3DES (Triple DES) data encryption and can read up to 28 stored applications per DX card. The DX200 readers comply with the requirements of ISO 14443A as well as FIPS 201, thereby meeting U.S. Government interoperability standards. DX readers can read the CSN of any ISO 14443 or 15693 compatible card as well as provide full encryption and key managed solutions. DX DESFire™ readers are ideal for high security, single or multiple applications.



FlexSmart™ 13.56 MHz Contactless Readers Specifications (IX, MX, DX)

Form Factors	Slim Module	Heavy Duty PIN Pad	EU Square	EU Square PIN Pad
Size	4.3" H x 1.5" W x 0.72" D (10.9 cm x 3.8 cm x 1.8 cm)	4.7" H x 2.9" W x 1.1" T (11.9 cm x 7.4 cm x 2.8 cm)	3.4" H x 3.4" W x 1.2" T (8.6 cm x 8.6 cm x 3 cm)	3.4" H x 3.4" W x 1.2" T (8.6 cm x 8.6 cm x 3 cm)
Read Range	MX, DX Up to 2.5" (6.35 cm)* IX Up to 4.0" (10.2 cm)	MX, DX Up to 2.5" (6.35 cm)* IX Up to 4.0" (10.2 cm)	MX, DX Up to 2.5" (6.35 cm)* IX Up to 4.0" (10.2 cm)	MX, DX Up to 2.5" (6.35 cm)* IX Up to 4.0" (10.2 cm)
Transaction Speed	IX=Standard (Up to 53Kbps) MX=High (Up to 106Kbps) DX=Very high (Up to 848Kbps)	IX=Standard (Up to 53Kbps) MX=High (Up to 106Kbps) DX=Very high (Up to 848Kbps)	IX=Standard (Up to 53Kbps) MX=High (Up to 106Kbps) DX=Very high (Up to 848Kbps)	IX=Standard (Up to 53Kbps) MX=High (Up to 106Kbps) DX=Very high (Up to 848Kbps)
Input Voltage	9 to 16 VDC	9 to 16 VDC	9 to 16 VDC	9 to 16 VDC
Typical Current Draw	15 mA Typical (75 mA Peak)	25 mA Typical (100 mA Peak)	20 mA Typical (75 mA Peak)	25 mA Typical (100 mA Peak)
Operating Temperature	-4°F to 131°F -20°C to 55°C	-4°F to 131°F -20°C to 55°C	-4°F to 131°F -20°C to 55°C	-4°F to 131°F -20°C to 55°C
Operating Humidity	5-95% Non-condensing	5-95% Non-condensing	5-95% Non-condensing	5-95% Non-condensing
LED Indicator	Single Tri-Color LED's	Three Bi-Color LED's	Three Bi-Color LED's	Three Bi-Color LED's
Audio Tone	Standard, Independently Controlled (not tied to LED Function)	Standard, Independently Controlled (not tied to LED Function)	Standard, Independently Controlled (not tied to LED Function)	Standard, Independently Controlled (not tied to LED Function)
Frequency	13.56 MHz	13.56 MHz	13.56 MHz	13.56 MHz
Finish	Black (Arch) or Blue (Wave)	Black or Beige	Black	Black
Cable Length	18" (46 cm)	18" (46 cm)	Connector Block	18" (46 cm)
Weight	4.0 oz. (113 grams)	12 oz. (340 grams)	5.6 oz (160 grams)	5.6 oz. (160 grams)
Output Options	Wiegand, ABA Track 2	Wiegand, ABA Track 2, PIN	Wiegand, ABA Track 2	Wiegand, ABA Track 2, PIN
Format	CSN or Custom Sector and Block	CSN or Custom Sector and Block	CSN or Custom Sector and Block	CSN or Custom Sector and Block
Cable Distance	Cable Distance: Wiegand = 500 feet (150 m) / ABA Track 2 = 500 feet (150 m) Recommended cable is 22 AWG BELDON 9537 7-conductor minimum, stranded with overall shield or equivalent. Additional conductors may be required for connection of all outputs.			

Reader Type	IX Part Number	MX Part Number	DX Part Number
Reader – Slim Arch Black	IX200-311/Format	MX200-311/Format	DX200-311/Format
Reader – Slim Wave Blue	IX200-112/Format	MX200-112/Format	DX200-112/Format
Reader – Slim Wave Black	IX200-111/Format	MX200-111/Format	DX200-111/Format
Reader and PIN Pad – Heavy Duty Black	IX200-351/Format	MX200-351/Format	DX200-351/Format
Reader and PIN Pad – Heavy Duty Beige	IX200-354/Format	MX200-354/Format	DX200-354/Format
Reader – EU Size Square Black	IX200-531/Format	MX200-531/Format	DX200-531/Format
Reader and PIN Pad – EU Size Square Black	IX200-541/Format	MX200-541/Format	DX200-541/Format

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* Read ranges vary by reader and card choice.

APPROVALS
UL294/cUL, FCC Certification-United States, Canada Certification, CE Mark-Europe, Australia C-Tick, New Zealand EMC

WARRANTY
Indala warrants this product against defects in material and workmanship under normal use and service. The warranty period commences with the date of shipment. See complete warranty statement for further details. Indala reserves the right to discontinue any product without notice. Indala is a registered trademark of Indala, an ASSA ABLOY Group company. All other products or service names are the property of their respective trademark owners.

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