# FlexSmart® Series Readers

MIFARE® HID Format Secure Reader • 6075

ISO 14443A Contactless Smart Card Series



**ACCESS** interoperability.

#### **Key Features**

- ▶ Installation Simplicity All keys and formats are preconfigured, making installations easy.
- ▶ Multiple Format Solutions Choose from a variety of HID formats: OEM, Corporate 1000 or 26-Bit.
- ▶ Complete Flexibility Complete flexibility to read HID Sector formats and/or CSN.
- ▶ Security Management HID manages all reader and card security for you.
- Excellent Reader Value
- Lifetime Warranty on HID Cards and Readers.

The FlexSmart MIFARE HID Format Secure Reader provides the ideal solution for customers that are seeking MIFARE technology for new installations or for existing HID applications. Whether you require HID Sector formats or CSN (card serial number) read capability, the reader is preconfigured for ease of installation. The reader is compatible with HID's 6055B MIFARE reader (read-only) or the 6074A reader (read-only) and can be integrated into an existing system. With configuration capability of audio/visual and CSN outputs, the reader offers complete reader security management for customers that want a simple "out-of-the-box" solution.

### **MIFARE** Advantages

The HID FlexSmart MIFARE Format Secure Reader is preconfigured to read any HID formatted data within a secured MIFARE card sector. The reader complies with the requirements of ISO 14443A interoperability standards and is a perfect choice for standard encrypted ID, data storage solutions and multiple applications.

#### **Features**

Mounting

The reader mounts on a door mullion or single-gang electrical box for easy installation. A red LED flashes green and the beeper sounds when reader is presented with a MIFARE® Card. The multicolor LED and beeper can also be controlled by the host system.

**Diagnostics** 

On reader power-up, an internal self-test routine checks and verifies the setup configuration, determines the internal or external control of the LED and beeper and initializes reader operation.

**Durable** 

Sealed in a rugged, weatherized polycarbonate enclosure designed to withstand harsh environments, the reader provides reliable performance and a high degree of vandal resistance.

The reader is capable of outputting in either Wiegand or Clock & Data (magnetic stripe) formatted data.

Security
MIFARE 48-bit read and write keys are extremely secure.
Unique key pairs may be defined for each sector.
Readers and cards must have matching keys.

All RF data transmission between the card and reader is encrypted.

**Options** 

Colors: Black

Optional bezel styles and colors available Selectable Output Formats

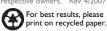
Custom label

Custom and Company Com

*Read Range  Mounting  Door mullion or single-gang electrical box  Housing  Dimensions  4.30" H x 15"W x 072"T (10.9 x 3.8 x 18 cm)  Weight  Style  Sim or Vallawitch  Read-Only  Secure Sector's Files  Formats  HID Only  Custom  CSN  Custom  CSN  Custom  Custom  CSN  Custom Keys/ Formats  Audio/Visual  Power Supply  Gurrent Requirements  Operating Temperature  Operating Temperature  Operating Temperature  Cable Distance  Wiegand interface:500 feet (150 m.) 22 AVXG, 6 conductor minimum stranded with overall shield or equivalent.  Additional conductors may be required for connection of all outputs.  HID or Indala MIFARE Cards (dual technology: HID or Indala MIFARE Cards (dual technology: HID or Indala MIFARE Cards (dual technology: Any Philips compatible DESFire 4k bytes Cards (SO 14443, Type A)  Worranted saints defects in materials and wordmantable for the feet compate warranty nolicy for details)  Worranted saints defects in materials and wordmantable for the feet competer warranty nolicy for details)  Worranted saints defects in materials and wordmantable for the feet competer warranty nolicy for details)  Worranted saints defects in materials and wordmantable for the feet competer warranty nolicy for details)		FlexSmart® MIFARE HID Format Secure Reader	FlexSmart MIFARE Custom Reader	FlexSmart DESFire® Custom Reader
Mounting Dimensions A30" H x 1.5"W x 0.72"T (10.9 x 3.8 x 1.8 cm)  Weight 4 oz. (113 g)  Style Read / Write Secure Sectors / Files Formats HID Only Custom CSN Yes  Custom Keys/ Formats Audio/Visual Power Supply Gurrent Requirements Operating Temperature Operating Temperature Operating Temperature Cable Distance  Wiegand interface: 500 feet. (150 m) 22 AWG; 6 conductor minimum stranded with overall sheld or equivalent. Additional conductors may be required connection of all outputs.  HID Or Indala MIFARE Cards HID IFIARE Cards HID IFIARE Cards (dual technology: MIFARE and HID 125 kHz proximity) App Philips compatible HIFARE (ards (dual technology: MIFARE and HID 125 kHz proximity) App Philips compatible HIFARE (ards (dual technology: MIFARE and HID 125 kHz proximity) App Philips compatible HIFARE (ards (dual technology: MIFARE Cards (disonal conductors may be required connection of all outputs.  Light Style App Philips compatible HIFARE (ards (dual technology: MIFARE and HID 125 kHz proximity) App Philips compatible HIFARE (ards (disonal conductors may be required connection of all outputs.  Light Style App Philips compatible HIFARE (ards (disonal conductors may be required connection of all outputs.  Light Style App Philips compatible HIFARE (ards (dual technology: MIFARE and HID 125 kHz proximity) App Philips compatible HIFARE (ards (disonal conductors may be required connection of all outputs.  Light Style App Philips compatible HIFARE (ards (disonal conductors may be required connection of all outputs.  Light Style App Philips compatible HIFARE (ards (disonal conductors may be required connection of all outputs.  Light Style App Philips compatible HIFARE (ards (disonal conductors may be required connection of all outputs.  Light Style App Philips compatible HIFARE (ards (disonal conductors may be required connection of all outputs.  Light Style App Philips compatible HIFARE (ards (disonal conductors may be required connection of all outputs.  Light Style App Philips compatible HIFARE (ards (disonal conductor	Model Numbers	6075	6076 (formerly Indala MX200)	6077 (formerly Indala DX200)
Dimensions Weight Style Read / Write Read-Only Secure Sectors / Files Formats HID Only Custom Custom Custom Custom Custom Custom Custom Keys/ Formats No Pes  Custom Keys/ Formats No Power Supply Power Supply Power Supply Surrent Requirements Operating Temperature Operating Humidity Transmit Frequency Cable Distance  Wiegand interface: 500 feet (150 m) 22 AWG; 6 conductor minimum stranded with overall shield or equivalent. Additional conductors may be required for connection of all outputs.  HID MIFARE Cards HID Proximity and MIFARE Cards (dual technology: MIFARE and HID 125 kHz proximity) Any Philips compatible MIFARE it or MIFARE 4k bytes Cards (ISO 14443,Type A)  UL 294(cUL (Pending), FCC Certification, United States, Canada Certification, CE Mark, Europe, Australia C-Tick, New Zealand EMC Polycarbonate UL 94	*Read Range	Up to 2.0" (5.08 cm)		
Weight Style Read / Write Read / Write Read / Write Secure Sectors / Files Formats HID Only Custom CSN Fes Custom Keys/ Formats No Peful Separate Beeper on, LED normally red, reader flashes green on card read** Power Supply Power Supply Power Supply Service Sectors / Files Power Supply Formats Operating Temperature Operating Temperature Operating Humidity Transmit Frequency Cable Distance Wiegand interface: 500 feet (150 m) 22 AWG, 6 conductor minimum stranded with overall shield or equivalent. Additional conductors may be required for connection of all outputs.  HID MIFARE Cards HID MIFARE Cards HID MIFARE Cards HID MIFARE Cards HID Proximity and MIFARE Cards (dual technology: MIFARE and HID 125 kHz proximity) Any Philips compatible MIFARE It or MIFARE 4k bytes Cards (ISO 14443, Type A)  Certifications Housing Material  UL 294/cUL (Pending), FCC Certification, United States, Canada Certification, CE Mark, Europe, Australia C-Tick, New Zealand EMC Polycarbonate UL 94	Mounting	Door mullion or single-gang electrical box		
Style Read / Write Read / Write Read / Write Secure Sectors / Files Formats HID Only Custom CSN Custom Keys/ Formats Audio/Visual Power Supply Gurrent Requirements Operating Temperature Operating Humidity Transmit Frequency Cable Distance  Cable Distance  Card Compatibility Card Compatibility Card Compatibility Cardina Additional Conductors may be required for connection of all outputs.  All Files Read-Only Read-Only Read-Only All Files Read-Only All Files Read-Only All Files Sector One All Sectors All Files Sector One All Sectors All Files Sector One All Sectors Yes Yes Yes Yes  Yes Operating Humidity Power Supply recommended  Operating Temperature Operating Humidity Operating Temperature Operating Humidity non-condensing I 3.56 MHz  HID or Indala MIFARE Cards (dual technology MIFARE Layroximity) Any Philips compatible MIFARE key fobs & tags HID or Indala MIFARE Layroximity) Any Philips compatible MIFARE key fobs & tags HID or Indala MIFARE Layroximity) Any Philips compatible DESFire At bytes Cards (ISO 14443, Type A)  Certifications Housing Material  Operating Humidity	Dimensions	4.30" H × 1.5" W × 0.72"T (10.9 × 3.8 × 1.8 cm)		
Read / Write  Secure Sectors / Files Secure One All Sectors All Files Formats HID Only Custom CSN Yes  Custom Keys/ Formats Audio/Visual Power Supply Power Supply Formats Operating Temperature Operating Humidity Transmit Frequency Cable Distance  Card Compatibility  Card Compatibility Card Compatibility Card Compatibility Card Compatible MIFARE Cards HID MIFARE Cards (dual technology: MIFARE and HID 125 kHz proximity) Any Philips compatible MIFARE Is or MIFARE Ak bytes Cards (ISO 14443, Type A)  Cartifications Housing Material  Polycarbonate UL 94  All Files  Read-Only All Sectors All Files  Custom Custo	Weight	4 oz. (113 g)		
Secure Sectors / Files Formats HID Only Custom CSN  Custom Keys/ Formats No Yes  Custom Keys/ Formats No Yes  Yes  Custom Keys/ Formats No Yes  Yes  Yes  Custom Keys/ Formats No Yes  Yes  Yes  Custom Keys/ Formats  Audio/Visual Power Supply Power Suppl	Style	Slim or Wallswitch		
Formats CSN Custom Keys/ Formats No Power Supply Power Supply Formats Operating Temperature Operating Humidity Transmit Frequency Cable Distance  Card Compatibility	Read / Write	Read-Only		
CSN Custom Keys/ Formats Audio/Visual Power Supply Precommended Power Supply Power	Secure Sectors / Files	Sector One	All Sectors	All Files
Audio/Visual Power Supply recommended  Poly 2 Dower Supply recommended  Posset Supply recome	Formats	HID Only	Custom	Custom
Power Supply  9-16 VDC (reverse current protected); Linear supply recommended  Current Requirements  15mA /75mA @ 12 VDC; Linear power supply recommended.  Operating Temperature  0-95% relative humidity non-condensing  Transmit Frequency  Cable Distance  Wiegand interface: 500 feet (150 m) 22 AWG; 6 conductor minimum stranded with overall shield or equivalent.  Additional conductors may be required for connection of all outputs.  HID or Indala MIFARE Cards HID or Indala MIFARE key fobs & tags HID Proximity and MIFARE Cards (dual technology: MIFARE and HID 125 kHz proximity) Any Philips compatible MIFARE Ik or MIFARE 4k bytes Cards (ISO 14443, Type A)  Certifications  Housing Material  Default state: Beeper on, LED normally red, reader flashes green on card read**  9-16 VDC (reverse current protected); Linear supply recommended  15mA /75mA @ 12 VDC; Linear power supply recommended  0-95% relative humidity non-condensing 13.56 MHz  13	CSN	Yes		
Power Supply  9-16 VDC (reverse current protected); Linear supply recommended  Current Requirements  15mA /75mA @ 12 VDC; Linear power supply recommended.  Operating Temperature  Operating Humidity  Transmit Frequency  Cable Distance  Wiegand interface: 500 feet (150 m) 22 AWG; 6 conductor minimum stranded with overall shield or equivalent.  Additional conductors may be required for connection of all outputs.  HID or Indala MIFARE Cards (dual technology: MIFARE and HID 125 kHz proximity) Any Philips compatible MIFARE ik or MIFARE 4k bytes Cards (ISO 14443, Type A)  Certifications  UL 294/cUL (Pending), FCC Certification, United States, Canada Certification, CE Mark, Europe, Australia C-Tick, New Zealand EMC  Polycarbonate UL 94	Custom Keys/ Formats	No	Yes	Yes
Current Requirements  Operating Temperature  Operating Humidity  Transmit Frequency  Cable Distance  Wiegand interface: 500 feet (150 m) 22 AWG; 6 conductor minimum stranded with overall shield or equivalent. Additional conductors may be required for connection of all outputs.  HID MIFARE Cards HID MIFARE Key fobs & tags HID Proximity and MIFARE (and HID 125 kHz proximity) Any Philips compatible MIFARE Ik or MIFARE Hk bytes Cards (ISO 14443, Type A)  Certifications  HOusing Material  Isom A /75mA @ 12 VDC; Linear power supply recommended.  -13° to 131° F (-25° to 55° C)  0.95% relative humidity non-condensing  13.56 MHz  -13° to 131° F (-25° to 55° C)  -13° to 151° F (expressions)  -13° to 131° F (-25° to 55° C)  -13° to 151° F (expressions)  -13° to 131° F (-25° to 55° C)  -13° to 151° F (expressions)  -13° to 131° F (expressions)  -110 or Indala MIFARE Cards (dual technology: HID or Indala Poximity and MIFARE (are by 6 bs & tags  -110 or Indala Poximity and MIFARE (are	Audio/Visual	Default state: Beeper on, LED normally red, reader flashes green on card read**		
Operating Temperature Operating Humidity Transmit Frequency Cable Distance  Wiegand interface: 500 feet (150 m) 22 AWG; 6 conductor minimum stranded with overall shield or equivalent. Additional conductors may be required for connection of all outputs.  HID MIFARE Cards HID or Indala MIFARE Cards HID or Indala MIFARE Cards (dual technology: HID or Indala MIFARE Cards (dual technology: MIFARE and HID 125 kHz proximity) Any Philips compatible MIFARE Ik or MIFARE 4k bytes Cards (ISO 14443, Type A)  Certifications  UL 294/cUL (Pending), FCC Certification, United States, Canada Certification, CE Mark, Europe, Australia C-Tick, New Zealand EMC  Polycarbonate UL 94	Power Supply	9-16 VDC (reverse current protected); Linear supply recommended		
Operating Humidity  Transmit Frequency  I3.56 MHz  Cable Distance  Wiegand interface: 500 feet (150 m) 22 AWG; 6 conductor minimum stranded with overall shield or equivalent. Additional conductors may be required for connection of all outputs.  HID MIFARE Cards HID MIFARE key fobs & tags HID Proximity and MIFARE Cards HID or Indala MIFARE Cards (dual technology: HID or Indala Proximity and MIFARE Cards (dual technology: MIFARE and HID 125 kHz proximity) Any Philips compatible MIFARE Ik or MIFARE 4k bytes Cards (ISO 14443, Type A)  Certifications  UL 294/cUL (Pending), FCC Certification, United States, Canada Certification, CE Mark, Europe, Australia C-Tick, New Zealand EMC  Polycarbonate UL 94	<b>Current Requirements</b>	15mA /75mA @ 12VDC; Linear power supply recommended.		
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Card Compatibility  Wiegand interface: 500 feet (150 m) 22 AWG; 6 conductor minimum stranded with overall shield or equivalent.  Additional conductors may be required for connection of all outputs.  HID MIFARE Cards HID MIFARE Cards HID or Indala DESFire key fobs & tags HID or Indala MIFARE Cards (dual technology: MIFARE and HID 125 kHz proximity) Any Philips compatible MIFARE Ik or MIFARE Ak bytes Cards (ISO 14443, Type A)  HID or Indala MIFARE Cards HID or Indala DESFire key fobs & tags HID or Indala DESFire key fobs & tags HID or Indala DESFire key fobs & tags HID or Indala MIFARE Cards (dual technology: DESFire and HID 125 kHz proximity) Any Philips compatible MIFARE Ik or MIFARE Ak bytes Cards (ISO 14443, Type A)  Certifications  UL 294/cUL (Pending), FCC Certification, United States, Canada Certification, CE Mark, Europe, Australia C-Tick, New Zealand EMC  Polycarbonate UL 94	<b>Operating Humidity</b>	0-95% relative humidity non-condensing		
Additional conductors may be required for connection of all outputs.  - HID MIFARE Cards - HID MIFARE key fobs & tags - HID Proximity and MIFARE Cards (dual technology: - MIFARE and HID 125 kHz proximity) - Any Philips compatible MIFARE Ik or MIFARE - 4k bytes Cards (ISO 14443, Type A)  - Certifications  - HID or Indala MIFARE Cards - HID or Indala MIFARE Cards (dual technology: HID or Indala Proximity and MIFARE Cards (dual technology: MIFARE and HID 125 kHz proximity) - Any Philips compatible MIFARE Ik or MIFARE - 4k bytes Cards (ISO 14443, Type A)  - Certifications  - HID or Indala DESFire Cards	Transmit Frequency	13.56 MHz		
- HID MIFARE key fobs & tags - HID Proximity and MIFARE Cards (dual technology: MIFARE and HID 125 kHz proximity) - Any Philips compatible MIFARE Ik or MIFARE 4k bytes Cards (ISO 14443, Type A)  - Certifications  - HID or Indala MIFARE key fobs & tags - HID or Indala Proximity and MIFARE Cards (dual technology: HID or Indala Proximity) - Any Philips compatible MIFARE Ik or MIFARE 4k bytes Cards (ISO 14443, Type A)  - HID or Indala DESFire key fobs & tags - HID or Indala DESFire key	Cable Distance			
Housing Material  Polycarbonate UL 94	Card Compatibility	HID MIFARE key fobs & tags     HID Proximity and MIFARE Cards (dual technology: MIFARE and HID 125 kHz proximity)     Any Philips compatible MIFARE 1k or MIFARE	HID or Indala MIFARE key fobs & tags     HID or Indala Proximity and MIFARE Cards (dual technology: MIFARE and HID 125 kHz proximity)     Any Philips compatible MIFARE Ik or MIFARE	· HID or Indala DESFire key fobs & tags     · HID or Indala Proximity and DESFire Cards     (dual technology: DESFire and HID 125 kHz     proximity)     · Any Philips compatible DESFire 4k bytes Cards
	Certifications	UL 294/cUL (Pending), FCC Certification, United States, Canada Certification, CE Mark, Europe, Australia C-Tick, New Zealand EMC		
Warranty Warrantied against defects in materials and workmanship for life (see complete warranty policy for details)	Housing Material	Polycarbonate UL 94		
Training against solete in materials and world man in the control of the complete marrainey points in details).	Warranty	Warrantied against defects in materials and workmanship for life (see complete warranty policy for details).		

\*Dependent upon installation conditions. \*\*Consult "How to Order Guide" for other configuration options.

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MKT-6075-DS-EN

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