

# FlexSmart™ Series Readers

## DESFire™ Custom Reader • 6077

ISO 14443A Contactless Smart Card Series



**ACCESS** interoperability.

### Key Features

- ▶ **Custom Configurations** – The reader is completely configurable for every access control application challenge
- ▶ **Open Architecture Design** – ISO 14443A compatible for card interoperability
- ▶ **Read Flexibility** – Reads data from any DESFire application file on the card
- ▶ **Data Security** – Secure data transactions with Triple DES encryption
- ▶ **Lifetime Warranty** on HID Cards and Readers.

The HID FlexSmart DESFire Custom Reader is a new, flexible, highly secure and stylish contactless smart card reader ideal for customers that require a customizable reader for new or existing installations.

The HID FlexSmart DESFire Custom Reader offers the ultimate choice in interoperability and programmability. The reader provides unique capabilities, such as reading any DESFire application data file or CSN (card serial number) to meet all your installation requirements. With the ability to read any DESFire application file, this reader can be configured to read any third-party formatted cards or to develop a custom format for a new application. Designed for a wide variety of applications from entry level access control to secure ID management, the reader is completely configurable for every access control application challenge.

### DESFire Advantages

The HID FlexSmart DESFire Custom Reader is compatible with the DESFire protocol, which provides a high level of security, fast read transaction speeds and a flexible (dynamic) file structure. DESFire provides mutual authentication, Triple DES data encryption and can read up to 28 stored applications per card.

Note: To configure your requirements for the HID FlexSmart DESFire Custom Reader, please refer to the HID “How To Order Guide” and product worksheet.

# 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 DESFire™ 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

DESFire  
56-bit read, write or administrative keys (14 per application)  
DES/3DES data encryption  
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  
Field Programmer  
(Please see "How to Order Guide" for a description of the options and associated part numbers)

	FlexSmart™ MIFARE® HID Format Secure Reader	FlexSmart MIFARE Custom Reader	FlexSmart DESFire Custom Reader
<b>Model Numbers</b>	6075	6076 (formerly Indala MX200)	6077 (formerly Indala DX200)
<b>*Read Range</b>	Up to 2.0" (5.08 cm)		
<b>Mounting</b>	Door mullion or single-gang electrical box		
<b>Dimensions</b>	4.30" H x 1.5" W x 0.72" T (10.9 x 3.8 x 1.8 cm)		
<b>Weight</b>	4 oz. (113 g)		
<b>Style</b>	Slim or Wallswitch		
<b>Read / Write</b>	Read-Only		
<b>Secure Sectors / Files</b>	Sector One	All Sectors	All Files
<b>Formats</b>	HID Only	Custom	Custom
<b>CSN</b>	Yes		
<b>Custom Keys/ Formats</b>	No	Yes	Yes
<b>Audio/Visual</b>	Default state: Beeper on, LED normally red, reader flashes green on card read**		
<b>Power Supply</b>	9-16VDC (reverse current protected); Linear supply recommended		
<b>Current Requirements</b>	15mA /75mA @ 12VDC; Linear power supply recommended.		
<b>Operating Temperature</b>	-13° to 131° F (-25° to 55° C )		
<b>Operating Humidity</b>	0-95% relative humidity non-condensing		
<b>Transmit Frequency</b>	13.56 MHz		
<b>Cable Distance</b>	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.		
<b>Card Compatibility</b>	<ul style="list-style-type: none"> <li>· HID MIFARE Cards</li> <li>· HID MIFARE key fobs &amp; Tags</li> <li>· HID Proximity and MIFARE Cards (dual technology: MIFARE and HID 125 kHz proximity)</li> <li>· Any Philips compatible MIFARE 1k or MIFARE 4k bytes Cards (ISO 14443, Type A)</li> </ul>	<ul style="list-style-type: none"> <li>· HID or Indala MIFARE Cards</li> <li>· HID or Indala MIFARE key fobs &amp; Tags</li> <li>· HID or Indala Proximity and MIFARE Cards (dual technology: MIFARE and HID 125 kHz proximity)</li> <li>· Any Philips compatible MIFARE 1k or MIFARE 4k bytes Cards (ISO 14443, Type A)</li> </ul>	<ul style="list-style-type: none"> <li>· HID or Indala DESFire Cards</li> <li>· HID or Indala DESFire key fobs &amp; tags</li> <li>· HID or Indala Proximity and DESFire Cards (dual technology: DESFire and HID 125 kHz proximity)</li> <li>· Any Philips compatible DESFire 4k bytes Cards (ISO 14443, Type A)</li> </ul>
<b>Certifications</b>	UL 294/cUL (Pending), FCC Certification, United States, Canada Certification, CE Mark, Europe, Australia C-Tick, New Zealand EMC		
<b>Housing Material</b>	Polycarbonate UL 94		
<b>Warranty</b>	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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## ACCESS experience.

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