



# Smart Card Readers

## Overview

Contactless Smart Card Readers allow your facility to meet the requirements of today while planning for the future. Operating on 13.56 MHz frequency, these Contactless Smart Card Readers by Schlage provide one of the most advanced identification reader technologies available today. The combination of Contactless Smart Card Readers and smart credentials provides more security, more speed, and more data storage than the more common systems of today.

All Contactless Smart Card Readers by Schlage provide advanced security by supporting all applicable ISO standards (14443). Rather than using open transmission protocols, Schlage smart card readers utilize high security data. Each message between the card and the reader is digitally signed using Message Authentication Coding (MAC) to ensure the integrity of the data.

These readers are an excellent choice for an entirely new installation that does not need to support legacy technology and will simplify administration and strengthen campus security. Additionally, smart reader technology can be used in various applications, such as logical access, cashless vending, and cafeteria services.



Readers  
Smart Card Readers

## Features & Benefits

- Industry standard 13.56 MHz contactless smart card technology
- Compliant with ISO standards
- Manufactured with high-quality UV resistant materials
- Tri-state LED (red, green, amber) provides a visual indicator and audio feedback representing status and activity information
- Accommodates interior, exterior, metal, and non-metal installation environments
- Security/Key Management: several options to ensure the greatest choice between "open" or high credential security
- Lifetime limited warranty against defective workmanship and materials



Base Part Number	1060MF	SXF1200	SXF1560	SXF 2200	SXF 2210
Technology	13.56 Smart Technology				
Mount	Mini-Mullion Reader	Mullion Reader	Wall Mount Reader	Mid-Range Wall Mount	Mid-Range Wall Mount
FIPS 201 Compliant Model	N/A	Yes	N/A	Yes	Yes
Frequency	13.56 MHz				
Standard Default Configuration	N/A	75 bit PIV	75 bit PIV	75 bit PIV	75 bit PIV
Standards	ISO 14443	ISO 14443 and 15693			
Physical Dimensions (HWD)	4.2" x 1.72" x 1.0" 10.7 cm x 4.3 cm x 2.5 cm	6.07" x 1.72" x 1.14" 15.4 cm x 4.4 cm x 2.9 cm	5.1" x 3.25" x 0.76" 12.9 cm x 8.3 cm x 1.9 cm	6.10" x 4.55" x 1.27" 15.5 cm x 11.6 cm x 3.2 cm	6.10" x 4.55" x 1.27" 15.5 cm x 11.6 cm x 3.2 cm
Weight	0.45 lbs	0.6 lbs	0.6 lbs	1.6 lbs	1.1 lbs
Certifications	FCC Certification Canadian FCC Certification UL 294 Listed R&TTE Directive (15 EU Countries) CE Mark				
Voltage Range	5-16 VDC				
Power Supply	Linear DC				
Average Current Requirement	50 mA DC	65 mA DC	110 mA DC	70 mA DC	110 mA DC
Peak Current Requirement	85 mA DC	80 mA DC	160 mA DC	105 mA DC	140 mA DC
Maximum Read Range*	Up to 2" (5.1 cm)	Up to 4.0" (10.2 cm)	Up to 4.5" (11.4cm)	Up to 4.5" (11.4cm)	Up to 4.5" (11.4 cm)
Cable Specification	18 AWG, 5 Conductor Stranded/Shielded				
System Interfaces	Wiegand				
	N/A	RS-485	N/A	RS-485	RS-485
Operating Temperature	-31 to 151F (-35 to 67C)	-31 to 149F (-35 to 65C)	-31 to 151F (-35 to 67C)	-31 to 149F (-35 to 65C)	-31 to 149F (-35 to 65C)
Color Options	Black (standard) Gray (optional)				
Additional Technologies Supported**	MIFARE® Secure Sector MIFARE® CSN DESFire™ CSN HID iClass® CSN Inside Contactless PicoTag® CSN ST Microelectronics® CSN Texas Instruments Tag-It® Serial Number Phillips I-Code® CSN	aptiQ™ Cards using MIFARE® DESFire EV1 with PACSA MIFARE® Secure Sector MIFARE® CSN DESFire™ CSN HID iClass® CSN Inside Contactless PicoTag® CSN ST Microelectronics® CSN Texas Instruments Tag-It® Serial Number Phillips I-Code® CSN			

\*\* CSN = Card Serial Number

\* Maximum read range depends on credential type/form factor and installation conditions

INGERSOLL RAND, the Ingersoll Rand logo, Schlage, aptiQ and XceedID, are trademarks of Ingersoll-Rand plc, its subsidiaries and/or affiliates in the United States and other countries. XACTT, ISOX Lite are trademarks of XceedID Corporation. Inside PicoTag is a trademark of Inside Technologies. MIFARE and MIFARE DESFire EV1 are trademarks of NXP B.V. HID and iCLASS are trademarks of HID Corporation. Tag-It is a trademark for Texas Instruments. STMicroelectronics is a trademark of STMicroelectronics Inc. All other trademarks are the property of their respective owners.

