aptiQ™

aptiQ®
Multi-technology magnetic stripe readers

Overview

aptiQ multi-technology magnetic stripe readers by Allegion are designed to simplify your access control solutions. Transition your system from an existing population of magnetic stripe cards to more secure smart card technology at your own pace. aptiQ multi-technology readers are versatile enough to read magnetic stripe, 125 kHz proximity, and 13.56MHz contactless smart cards in a single unit, handle all applicable ISO standards (14443A, 14443B, 15693), and are FIPS 201-1 compliant. aptiQ multi-technology magnetic stripe readers interface with aptiQ smart credentials (MIFARE® Classic and MIFARE® DESFire™ EV1), and can read the card serial numbers of a variety of smart cards from other manufacturers, making your next upgrade in technology simple and seamless. Additionally, aptiQ readers are already NFC compatible and able to communicate with NFC-enabled phones whenever you're ready to take that step.

aptiQ multi-technology magnetic stripe readers use an open architecture platform designed to work with industry standards and common access control system interfaces. And with an attractive modern design they'll complement any facility's architecture and décor. aptiQ readers are very easy to install with the quick-connect design and a standard wiring color scheme that most technicians are already accustomed to. But if you do have questions, you'll never worry about lack of service or assistance. As always, our knowledgeable sales and support staff is ready to assist you with any design or technology questions you may have.
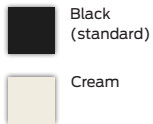
Features and benefits

- Accommodates interior, exterior, metal, and non-metal environments
- Recognizes magnetic stripe credentials, most proximity credentials, and aptiQ smart credentials (MIFARE® Classic and MIFARE DESFire™ EV1)
- FIPS 201-1 compliant
- NFC compatible, reads aptiQmobile™ credentials
- Quick-connect cable for easy installation
- Simple wiring – color scheme is identical to most readers in the market
- Easy-to-install mounting bracket
- Tri-state LED (red, green, amber) visual indicator and audio feedback representing status and activity information, easily discernible for the audibly or visually impaired
- Wiegand or RS-485 output for simple interface with most access control panels
- Multiple reader cover color options
- Limited lifetime warranty
- Magnetic stripe track 2 default, tracks 1 and 3 configurable

Model	MTMS15	MTMSK15
Reader type	Multi-technology magnetic stripe	Multi-technology magnetic stripe with keypad
Frequency	13.56MHz, 125 kHz, and magnetic stripe	13.56MHz, 125 kHz, and magnetic stripe
FIPS 201-1 compliant	Yes	Yes
Standard default PIV output	75 bit PIV*	75 bit PIV*
Standards	ISO 14443A, 14443B, 15693	ISO 14443A, 14443B, 15693
Certifications	FCC certification · IC certification · UL 294 Listed · R&TTE directive (15 EU countries) · CE mark · IP65	FCC certification · IC certification · UL 294 Listed · R&TTE directive (15 EU countries) · CE mark · IP65
Voltage range	5-16 VDC	5-16 VDC
Power supply	Linear DC	Linear DC
Current requirement (at 12 VDC and 25 C; mAmps)	MTMS15 and MTMS15-485 Avg. 120mA Peak 200mA	MTMSK15 and MTMSK15-485 Avg. 120mA Peak 230mA
Read range	Proximity: up to 5" (12.7 cm) MIFARE: up to 4" (10 cm) DESFire EV1: up to 2" (5.1 cm) PIV credential: up to 2.5" (6.5 cm)	Proximity: up to 5" (12.7 cm) MIFARE: up to 4" (10 cm) DESFire EV1: up to 2" (5.1 cm) PIV credential: up to 2.5" (6.5 cm)
Cable specification	18 AWG, 5 conductor stranded/shielded	18 AWG, 5 conductor stranded/shielded
System interfaces	Wiegand / Clock & Data / RS-485** (OSDP)	Wiegand / Clock & Data / RS-485** (OSDP)
Cabling distance	Wiegand output: 500 ft (152 m)	Wiegand output: 500 ft (152 m)
Physical dimensions (H x W x D)	4.43" x 5.17" x 1.15" 11.25 cm x 13.13 cm x 2.92 cm	4.43" x 5.17" x 1.15" 11.25 cm x 13.13 cm x 2.92 cm
Operating temperatures	-31º to 151ºF (-35 to 67ºC)	-31º to 151ºF (-35 to 67ºC)
Weight	8.9 oz	9.5 oz
Material	PBT polymer	PBT polymer
Technologies supported in default mode		
Magnetic stripe (tracks 1, 2, or 3)***	■	■
Schlage Proximity	■	■
XceedID® Proximity	■	■
HID® Proximity	■	■
GE/CASI ProxLite®	■	■
AWID® Proximity	■	■
LenelProx®	■	■
Schlage MIFARE®	■	■
XceedID MIFARE®	■	■
aptiQmobile	■	■
aptiQ smart cards using MIFARE® Classic	■	■
aptiQ smart cards using MIFARE DESFire™ EV1	■	■
DESFire® CSN	■	■
HID iClass® CSN	■	■
Inside Contactless PicoTag® CSN	■	■
ST Microelectronics® CSN	■	■
Texas Instruments Tag-It® CSN	■	■
Phillips I-Code® CSN	■	■

Color options

- Black (standard)
- Cream
- Cool tone gray
- Warm tone brown

* Other output options available through configuration.

** RS-485 model numbers include "-485" after the original model number. For example, MTMS15-485 is the RS-485 version of the multi-technology mini-mullion reader. Multi-drop, Open Standard Device Protocol (OSDP).

*** By default, the MTMS15 and MTMSK15 readers will read track 2 of the magnetic strip. If you require the ability to read track 1 or track 3, please contact technical support at 1-877-671-7011 for configuration options.

† Lead time may apply for non-standard colors