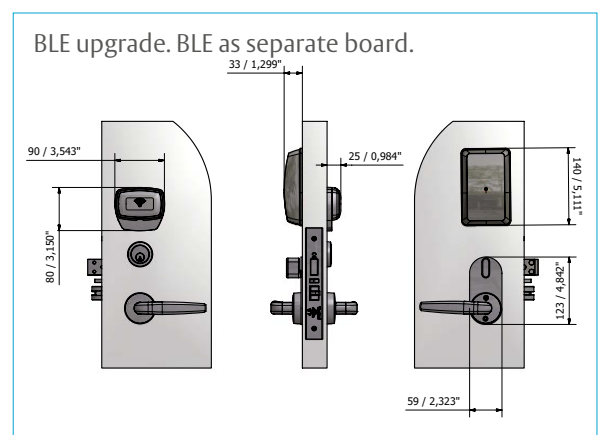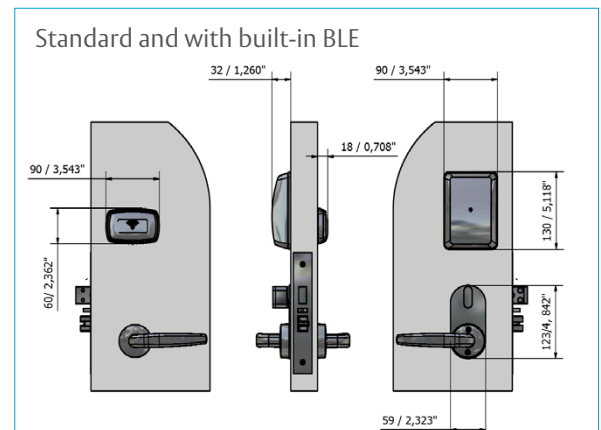# Sigma RFID
Electronic Lock

VingCard Sigma RFID is a high quality contactless electronic lock designed and developed with the same quality standards as any VingCard electronic lock. By standardizing design and finish options, Sigma RFID provides an attractive and cost effective value-for-money solution.

FEATURES

: Supports the latest RFID technology

: Supports Mobile Access

: Online compatible

: Easy upgrade from Magstripe or Combo Technology

: Fire listed for use on fire doors (UL, BS, EN)

: Case hardened full 1-inch (ANSI) throw deadbolt

: Panic release function – the deadbolt and latch are automatically retracted by inside handle for easy regress in emergency situations

: Stainless steel parts for mechanical strength, corrosion resistance and attractive appearance

: Optional high security mechanical override cylinder

: Detailed audit trail: 3000 events in offline mode (Vostio and Visionline version 1.24 and above) and unlimited number of events in online mode

: RFID Specifications:
   - 13,56MHz technology
   - Compatible with the following standards:
      - ISO 14443 A (MIFARE including Desfire)
      - ISO 14443 B
      - ISO 15693

DIMENSIONS

Standard and with built-in BLE

BLE upgrade. BLE as separate board.

TECHNICAL DATA

Power	4,5 V DC (3 x AA alkaline batteries).
Battery location	Inside of the room.
Material	Thumbturn escutcheon: Stainless steel, quality SS316. Handles: Stainless steel quality SUS304. Battery cover: Polycarbonate (Makrolon 6265-vo / Lexan 945).RFID cover: Polycarbonate UL94V0 (Makrolon 6555)
Metal finishes	Black titanium Only.
Standard plastic color	Black RAL 9005 (RFID cover and battery cover) plus BLE cover.
Handle options in standard range	Straight Handle Only.
Emergency opening options	Electronic emergency opening with service unit and optional mechanical cylinder.
User interface	3 colored LED display (green, red, yellow) plus Blue color and acoustic beeper if reader with built-in BLE is selected.
Locking mechanism	Electro-mechanical locking mechanism located in the lockcase.
Door thickness	34 - 120 mm / 1,34 - 4,72 Inches (thinner doors may be installed with a spacer).
System Software compatibility	Visionline and Vostio.
Storage temperature	0-70 °C / 32-158 °F: non-condensing environment.
Tested operating temperature	Tested from -25 °C to 70 °C (-13 °F to 158 °F), according to IEC 60068-2.
Certifications	European EMC, LVD and R&TTE Directives Fire approved according to EN 1634-1 Fire approved according to UL (timber doors and metal doors). Fire approved according to German MPA standard. FCC/IC for US and Canada.
Mobile Access compatible	Reader with built-in BLE or mobile access board add-on.
IP rating for reader	IP 56

LOCKCASE DIMENSIONS

ANSI lock case variants	ANSI DA, ANSI DB (both available in the following versions:4-switch, Auto deadbolt (ADB) Australia version (AUS) and Japan (JPN) version).
ANSI lock case widths	25 mm / 0,98 inches, 28 mm / 1,10 inches, 32 mm / 1,26 inches.
ANSI backset	70 mm / 2,76 inches.
EURO lock case variants	EURO, EURO ADB, EURO MPA.
EURO lock case widths	20 mm / 0,79 inches, 22 mm / 0,87 inches, 24 mm / 0,94 inches.
EURO backsets	65 mm / 2,56 inches, 80 mm / 3,15 inches.

* BLE: Bluetooth Low Energy

ANSI DB lockcase:

ANSI DA lockcase:

EURO lockcase: