

LECTUS secure readers (Wiegand)

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- ▶ 13.56 MHz proximity readers for connecting to access controllers with Wiegand interfaces
- ▶ Suitable for indoor and outdoor use
- ▶ Supports multiple technologies (standard iCLASS, MIFARE®, and MIFARE DESFire® EV1)
- ▶ Interoperable with a growing range of technology environments and form factors

System overview

Ideal for new and existing installations, LECTUS secure readers provide customers the assurance that their existing investments can be leveraged to enhance their system as business requirements change. The technology-independent readers support standard iCLASS, MIFARE classic, and MIFARE DESFire EV1. Available with four different form factors LECTUS secure readers meet nearly all installation requirements for indoor and outdoor use.

Installation/configuration notes

The maximum cable length for a Wiegand system is 150m.

In order to prevent problems by reading cards with contact-free card readers, follow the instructions when planning and installing contact-free readers. Avoid installing contact-less card readers behind metallic (i.e. conductive) cases or on metallic surfaces. The gaps to be left are given in the following list:

- Distance between reader and metal surfaces attached to the side: min. 30 mm
- Distance between reader and 230 V~ voltage cables and power packs: min. 500 mm
- Distance between reader and HF-cables: min. 500 mm

Parts included

Quantity	Component
1	Reader body with board
1	Mounting material
1	Installation guide

Technical specifications

Operating Voltage Range	5 to 16 VDC (12 VDC for RS 485)
Input Draw	60 to 220 mA (peak), 16V (see manual for details)
Environmental rating	IP 55
Operating temperature	- 35 °C to 65 °C (-31 °F to 150 °F)
Humidity	5 to 95%, no condensation water
Housing Material	Polycarbonate (UL 94)
Color	Black
Display	Multicolored RGB LED bar
Panel connection	Wiegand, pigtail

Card compatibility	iCLASS MIFARE classic serial number MIFARE DESFire EV1 serial number (32 bit standard, 56 bit optional)
Operating frequency	13.56 MHz
Typical reading distance ¹⁾ LECTUS secure 1000 WI	7.6 cm (iCLASS SE card) 5.1 cm (MIFARE DESFire EV1 card) 5.8 cm (MIFARE Classic card) 3.3 cm (iCLASS SE key fob) 1.3 cm (MIFARE Classic key fob)
Typical reading distance ¹⁾ LECTUS secure 4000 WI	11.4 cm (iCLASS SE card) 8.4 cm (MIFARE DESFire EV1 card) 8.9 cm (MIFARE Classic card) 4.6 cm (iCLASS SE key fob) 3.8 cm (MIFARE Classic key fob)
Typical reading distance ¹⁾ LECTUS secure 5000 W1	12.7 cm (iCLASS SE card) 5.8 cm (MIFARE DESFire EV1 card) 11.4 cm (MIFARE Classic card) 4.6 cm (iCLASS SE key fob) 3.8 cm (MIFARE Classic key fob)

¹⁾Typical read range achieved in air. Different types of metal will cause some degradation (typically up to 20%). Use spacers to space product off metal and improve read range if required.

Dimension (W x H x D)	See ordering information
Weight (g)	See ordering information

Ordering information

LECTUS secure 1000 WI

iCLASS/MIFARE reader, mini-mullion size, suited for mullion-mounted door installations, U.S. single-gang J-box or any flat surface, pigtail, 4.8 x 10.3 x 2.3 cm, 113g net

Order number **ARD-SER10-WI**

LECTUS secure 4000 WI

iCLASS/MIFARE reader, wall switch size, designed to mount and cover single gang switch boxes primarily used in the Americas, includes a slotted mounting plate for European and Asian back box spacing, pigtail, 8.4 x 12.2 x 2.4 cm, 220g net

Order number **ARD-SER40-WI**

LECTUS secure 5000 W1

iCLASS/MIFARE reader, wall switch size, designed to mount and cover single gang switch boxes primarily used in the Americas, slotted mounting plate for European and Asian back box spacing, pigtail, keypad (4x3), 8.5 x 12.2 x 2.8 cm, 256g net

Order number **ARD-SERK40-W1**

Accessories

Surface-mount panel for LECTUS secure 1000 WI readers, 10 items/packaging unit

Order number **ARD-R10-AP-G**

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