

# LECTUS secure readers (Wiegand)

www.boschsecurity.com



**BOSCH**

Invented for life



- ▶ 13.56 MHz proximity compatible with access controllers with Wiegand interfaces
- ▶ IP55 rating allows for indoor and outdoor installations (additional gasket improves rating to IP65)
- ▶ Support of multiple card technologies (e.g. iCLASS SE, SEOS, MIFARE DESFire® EV1)
- ▶ Quick reading response for high performance level
- ▶ Easy and quick mounting for cost saving installation

## System overview

The LECTUS secure reader (Wiegand) family has three different form factors.

The mini mullion reader offers the most attractive pricing solution. The US Gang Box sized readers can be ordered with or without a keypad. The keypad functionality offers higher security due to possible multi-factor authentication.

The keypad functionality can also be used for a variety of access control features including the option to set a door to long-term open.

The LECTUS secure readers are fully compatible with the Bosch Access Management portfolio, including the Management Software Systems (BIS/ACE, AMS and APE), the Access Modular Controller (AMC2), and the MIFARE and iCLASS credential portfolio.

The support of 13.56MHz credential formats offers a migration path for proximity installations.

The use of NFC on mobile phones to set up the communication with the readers enables mobile phones to be used as access credentials.

## Certifications and approvals

Region	Regulatory compliance/quality marks	
Korea	KCC	Korea Certification Mark
Europe	CE	Declaration of Conformity
Global	RoHS	
USA	UL	294 Certified
	FCC	FCC Compliance

## Installation/configuration notes

The pigtail interface of the Wiegand readers is easy to install.

A variety of card data formats are supported based on the card technology, including 26bit, 32bit and 56-bit format.

The integrated audio sounder provides various tone sequences to alert: access granted, access denied, power up and diagnostics. Cardholders can easily distinguish between access granted and access denied. A high-intensity light bar provides a clear visual status indication in red, green or amber, even in bright sunlight.

The rugged polycarbonate enclosure is designed to withstand severe environmental conditions and provides reliable performance and resistance to vandalism. The IP class can be upgraded to IP65, with additional gaskets.

### Technical specifications

Operating Voltage Range	5 to 16 VDC (12 VDC for RS 485)
Current draw	60 to 220 mA (peak), 16V (see manual for details)
Cable distance	Up to 150 m
Environmental rating	IP 65 without gasket/IP55 with additional gasket
Operating temperature	-35 °C to 65 °C (-31 °F to 150 °F)
Humidity	5 to 95%, no condensation water
Cable distance	Up to 150 m
Housing Material	Polycarbonate (UL 94)
Color	Black
Display	Multicolored RGB LED bar
Panel connection	Wiegand, pigtail
Panel compatibility	<p>Access controllers and extension boards:            AMC2 4W-CF            AMC2 4W-EXT            AMC2-2WCF</p> <p>Intrusion panels:            B9512G/B9512G-E            B8512G/B8512G-E            B6512            D9412GV4/D7412GV4            D9412GV3/D7412GV3            D9412GV2/D7412GV2</p>
Card compatibility	iCLASS iCLASS SE SEOS ISO 14443A CSN MIFARE Classic 32bit (default) + NFC (Support of HID mobile access) • iCLASS (26 / 37 bit standard coding scheme) • HID Corporate-1000 (35 / 48 bit standard coding scheme) • iCLASS SE (26 / 37 bit SIO - Secure Identity Object) • iCLASS Seos (26 / 37 bit SIO - Secure Identity Object)
Operating frequency	13.56 MHz

Typical reading distance <sup>1)</sup> LECTUS secure 1000 WI	7.6 cm (iCLASS SE card) 5.8 cm (MIFARE Classic card) 3.3 cm (iCLASS SE key fob) 1.3 cm (MIFARE Classic key fob)
Typical reading distance <sup>1)</sup> LECTUS secure 4000 WI	11.4 cm (iCLASS SE card) 8.9 cm (MIFARE Classic card) 4.6 cm (iCLASS SE key fob) 3.8 cm (MIFARE Classic key fob)
Typical reading distance <sup>1)</sup> LECTUS secure 5000 W1	12.7 cm (iCLASS SE card) 11.4 cm (MIFARE Classic card) 4.6 cm (iCLASS SE key fob) 3.8 cm (MIFARE Classic key fob)

<sup>1)</sup>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

NOTE: Using the Surface mount panel with the ARD-SER10-xx will:

- Reduce the environmental rating class to IP45, and
- Disable the tamper protection.

NOTE: HID listings for UL and FCC are valid for this product family. For details see [www.hidglobal.com/](http://www.hidglobal.com/) certifications.

**Ordering information**

**ARD-SER10-WI Card reader, iCLASS, Wiegand**  
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**

**EWE-RDR-IW 12mths wrty ext. Access Control Reader**  
12 months warranty extension  
Order number **EWE-RDR-IW**

**ARA-SER10-IP65 LECTUS Secure 1000 Gasket for IP65, 10pc**  
Gasket for protection class IP65, material Chloroprene Rubber, dimensions 4.625 x 10 x 0.2 cm, 10 pcs/each  
Order number **ARA-SER10-IP65**

**ARD-SER40-WI Card reader, iCLASS, Wiegand**  
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**

**EWE-RDR-IW 12mths wrty ext. Access Control Reader**  
12 months warranty extension  
Order number **EWE-RDR-IW**

**ARA-SER40-IP65 LECTUS Secure 4000 Gasket for IP65, 10pc**  
Gasket for protection class IP65, material Chloroprene Rubber, dimensions 8.1 x 11.9 x 0.2 cm, 10 pcs/each  
Order number **ARA-SER40-IP65**

**ARD-SER30-WI LECTUS secure 3000 WI iCLASS reader**  
iCLASS/MIFARE reader, EU / APAC Square Size, square reader is designed to mount to and cover standard European and Asian back boxes, pigtail, 8.4 x 8.4 x 2.3 cm, 148g net  
Order number **ARD-SER30-WI**

**ARD-SERK40-W1 Card reader with keypad, iCLASS, Wiegand**  
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**

**EWE-RDR-IW 12mths wrty ext. Access Control Reader**  
12 months warranty extension  
Order number **EWE-RDR-IW**

**ARA-SERK40-IP65 LECTUS Secure 5000 Gasket for IP65, 10pc**  
Gasket for protection class IP65, material Chloroprene Rubber, dimensions 8.1 x 11.9 x 0.2 cm, 10 pcs/each  
Order number **ARA-SERK40-IP65**

**Accessories**

**F01U508789 Surface mount panel, 10pcs**  
Surface-mount panel for LECTUS secure 1000 WI readers, 10 items/packaging unit  
Order number **F01U508789**

**ARA-SER10-IP65 LECTUS Secure 1000 Gasket for IP65, 10pc**  
Gasket for protection class IP65, material Chloroprene Rubber, dimensions 4.625 x 10 x 0.2 cm, 10 pcs/each  
Order number **ARA-SER10-IP65**

**ARA-SER40-IP65 LECTUS Secure 4000 Gasket for IP65, 10pc**  
Gasket for protection class IP65, material Chloroprene Rubber, dimensions 8.1 x 11.9 x 0.2 cm, 10 pcs/each  
Order number **ARA-SER40-IP65**

**ARA-SERK40-IP65 LECTUS Secure 5000 Gasket for IP65, 10pc**  
Gasket for protection class IP65, material Chloroprene Rubber, dimensions 8.1 x 11.9 x 0.2 cm, 10 pcs/each  
Order number **ARA-SERK40-IP65**

**Represented by:**

**Europe, Middle East, Africa:**  
Bosch Security Systems B.V.  
P.O. Box 80002  
5600 JB Eindhoven, The Netherlands  
Phone: + 31 40 2577 284  
emea.securitysystems@bosch.com  
emea.boschsecurity.com

**Germany:**  
Bosch Sicherheitssysteme GmbH  
Robert-Bosch-Ring 5  
85630 Grasbrunn  
Germany  
www.boschsecurity.com

**North America:**  
Bosch Security Systems, Inc.  
130 Perinton Parkway  
Fairport, New York, 14450, USA  
Phone: +1 800 289 0096  
Fax: +1 585 223 9180  
onlinehelp@us.bosch.com  
www.boschsecurity.us

**Asia-Pacific:**  
Robert Bosch (SEA) Pte Ltd, Security Systems  
11 Bishan Street 21  
Singapore 573943  
Phone: +65 6571 2808  
Fax: +65 6571 2699  
apr.securitysystems@bosch.com  
www.boschsecurity.asia