

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	Access controllers and extension boards: AMC2 4W-CF AMC2 4W-EXT AMC2-2WCF Intrusion panels: B9512G/B9512G-E B8512G/B8512G-E B6512 D9412GV4/D7412GV4 D9412GV3/D7412GV3 D9412GV2/D7412GV2
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 ¹⁾ 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 ¹⁾ 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 ¹⁾ 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)

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

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/ 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