LECTUS duo 3000 EV1 line

- ▶ 13.56 MHZ MIFARE readers compatible with Bosch access controller, as well as the Bosch software (BIS/ACE, AMS and APE)
- ▶ RS485 and Wiegand interface on all readers for highest flexibility
- ▶ Support of Bosch coded MIFARE Classic credential
- ▶ IP65 and IK08/IK10 ratings allow indoor and outdoor installations
- ▶ OSDP V2 Secure Channel support

Region	Regulatory compliance/quality marks	
Global	RoHS	

System overview

The LECTUS duo classic family comes in an attractive mullion design for wall and mullion mounting. The keypad version can be used to enter a PIN Code; or activate a custom feature like a long term open state of an entrance.

The reader is IP65 rated and appropriate for indoor and outdoor use.

The LECTUS duo readers are fully compatible with the Bosch access management portfolio, including the management software systems (BIS/ACE, AMS and APE), the access modular controllers (AMC2) and the MIFARE and card technologies.

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

The user can configure the reader to read either Bosch coded MIFARE DESFire credentials or the MIFARE DESFire CSN. The reader can also be configured to read MIFARE Classic credentials. The Classic mode can be completely disabled via the dipswitch settings.

During the operation, the user receives feedback from three LED indicators and a beeper. The logo on the reader is illuminated in the dark.

Certifications and approvals

Region	Regulatory compliance/quality marks	
Europe	CE	

Installation/configuration notes

The LECTUS duo readers can be connected via the Wiegand interface, or through the RS485 interface, for cost effective serial connection.

The easy reader configuration options via DIP switches allow easy migration and fast customization in order to save time and costs.

The settings can easily be changed via the dipswitches from reading ISO 14443A CSN only to Bosch code. The automation mode allows detection of Bosch code or CSN when present.

The state of the art security is achieved at its highest level through encrypted communication between card and reader (by using MIFARE Classic CSN and Bosch code or Bosch coded DESFire credentials), as well as between reader and AMC2 controller via the OSDP V2 Secure Channel protocol.

The upgrade from the Bosch proximity readers or the LECTUS duo classic readers to the LECTUS duo DESFire readers is a simple process. The hardware is compatible between both product lines and with the same software and hardware of the Bosch portfolio. The LECTUS duo reader series operates with low-current consumption, from 8 to 16 volts, and has the same hardware interfaces.

The rugged polycarbonate housing is designed to withstand severe outdoor conditions and provides reliable performance and resistance to vandalism, with IP65 and IK08 (IK10) ratings.

Technical specifications

Electrical

Input voltage	8.5 V to 16 Vdc
Current draw	65 mA @ 12 Vdc Max.: 130 mA @ 12 Vdc

Operational

Tamper	Optical Technology
Optical indication	LED, red, yellow, green
Audible indication	Buzzer
Reader interfaces	RS485, Wiegand
Reader protocols	OSDP V2 SC, Wiegand
Keypad	LECTUS duo 3000 E: none LECTUS duo 3000 EK: 2x6

Environmental

Operating environment	Indoor and outdoor use - all weather.
Operating temperature	-25 ℃ to 65 ℃ (-13 ℉ to 150 ℉)
Operating humidity	0 to 95% (Non-condensing)
IP rating	IP65
UV-light resistant	Yes
Vandal resistance	LECTUS duo 3000 E: IK08 LECTUS duo 3000 EK: IK10

MIFARE & Cards specification

Read range - ISO cards	> 3 cm (1.18 in.)
Key fob	> 2 cm (0.78 in.)
Supported cards	MIFARE 13.56 MHz ISO 14443 Type A MIFARE DESFire EV1 Bosch code support

Anti-Collision support	Yes

Mechanical

Dimensions (L x W x D)	137 mm x 44 mm x 27.5 mm (5.39 in. x 1.73 in. x 1.08 in.)
Weight	Approx. 220 g (0.5 lb)

Ordering information

ARD-AYBS6280 Card reader, MIFARE EV1
Proximity reader supporting data record of Bosch coded MIFARE classic and DESFire EV1 cards and keyfobs and CSN of ISO14443A credentials, providing RS485/OSDP and Wiegand interface on same device, IP65 rated for indoor and outdoor use, mullion mount.
Order number **ARD-AYBS6280 | F.01U.166.057**

ARD-AYBS6380 Card reader with keypad, MIFARE EV1
Proximity reader supporting data record of Bosch coded MIFARE classic and DESFire EV1 cards and keyfobs and CSN of ISO14443A credentials, providing RS485/OSDP and Wiegand interface on same device, IP65 rated for indoor and outdoor use, mullion mount, 2x6 keypad.
Order number **ARD-AYBS6380 | F.01U.166.058**