

# AY-x6255

CSN SELECT™ Smart Card Readers (Rev. B)

**CSN**  
SELECT™



AY-K6255



AY-M6255



AY-H6255



AY-L6255



AY-Q6255

The CSN SELECT™ AY-x6255 is a series of multi-credential technology contactless smart card (13.56 MHz) readers that support access by an NFC compatible Android smartphone app\* for use in access control system solutions. The readers have the flexibility to read the Card Serial Number (CSN) from many smart card RFID standards, perfect for transitioning from one technology to another. UV resistant and with an IP65 rated sleek and modern design, the readers can be used comfortably in any installation environment whether indoors or outdoors.

## GENERAL DESCRIPTION

The standard AY-x6255 readers are configured to read the CSN of the most popular smart cards in the security industry, as well as NFC compatible Android smartphones, and output the CSN in Wiegand format. Four individual control lines provide green LED control, red LED control, and buzzer control inputs, as well as an output for the optical wall tamper detector. Select models are also able to communicate with host controllers that support the Open Standard Device Protocol (OSDP).

## MAIN FEATURES

- Read the CSN from the following smart cards:
  - ISO14443A - MIFARE® Ultralight® Nano / Ultralight EV1/ Ultralight C
    - MIFARE Classic® / Classic EV1
    - MIFARE Plus® S / SE / X / EV1
    - MIFARE DESFire® EV1 / EV2
    - NFC N-TAG / Card Emulation
  - ISO14443B - China National ID
  - ISO15693 - HID® iClass®, PicoPass™, iCode, LEGIC
  - ISO18092 - SONY® FeliCa® (Hong Kong Octopus)
- NFC Android smartphone is supported with the Android App for Host Card Emulation (HCE)

- Multiple mounting options including micro-mullion, mullion, US gangbox and UK/Asia gangbox
- Selectable Wiegand output formats using the CS-HCT Hardware Configuration Tool for the DR-6255 application

## PROFESSIONAL GRADE FEATURES

- Sleek and modern design.
- Addressable OSDP connectivity available with the AY-H6255 and AY-M6255, up to 32 addresses using DIP switches
- Customizable control and status lines available with the CSN SELECT™ Configuration Card Tool for DR-6255
- Tri-colored LED operation
- Optical wall tamper detection
- IP65 rated and made of tough polycarbonate UV-resistant plastic
- Comes with mounting template and installation kit for easy installation

\* Please refer to NFC App datasheet for further information

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# SPECIFICATIONS

ELECTRICAL SPECIFICATIONS	AY-K6255	AY-L6255	AY-M6255	AY-H6255	AY-Q6255
■ Operating Voltage Range	8 ~ 16 VDC, from a regulated power supply				
■ Standby Current @12V	55 mA	55 mA	75 mA	75 mA	100 mA
■ Maximum Current @12V	80 mA	80 mA	110 mA	110 mA	150 mA
■ Read Range*	5 cm (2 in.)	7 cm (2.9 in.)	9 cm (3.5 in.)	9 cm (3.5 in.)	5 cm (2 in.)
■ Tamper Output**	Open collector, active low, max. sink current 16 mA				
■ Control Inputs**	Dry Contact, N.O.				
■ Reader Data Output Formats	CSN Wiegand 26-Bit*** (all models) RS-485 – OSDP for AY-M6255, AY-H6255				
ENVIRONMENTAL SPECIFICATIONS					
■ Operating Environment	Weather-resistant, UV-resistant, meets IP65, epoxy-potted, suitable for indoor and outdoor use				
■ Operating Temperature Range	-35°C to 66°C (-31°F to 150°F)				
■ Operating Humidity Range	0% to 95% (non-condensing)				
PHYSICAL SPECIFICATIONS	AY-K6255	AY-L6255	AY-M6255	AY-H6255	AY-Q6255
■ Dimensions (H x W x D)	80.5 x 40.5 x 14.7 mm (3.2 x 1.6 x 0.6 in.)	145.0 x 43.0 x 22.3 mm (5.7 x 1.7 x 0.9 in.)	89.5 x 88.5 x 16.9 mm (3.5 x 3.5 x 0.7 in.)	110.7 x 75.0 x 17.0 mm (4.4 x 3.0 x 0.7 in.)	120.0 x 76.0 x 21.5 mm (4.7 x 3.0 x 0.9 in.)
■ Weight	73 g (2.6 oz.)	130 g (4.6 oz.)	167 g (5.9 oz.)	177 g (6.2 oz.)	410 g (14.5 oz.)
<b>SYSTEM COMPONENTS</b>	The AY-x6255 readers are compatible with a variety of Rosslare controllers, as well as with many third-party access control systems supporting Wiegand or OSDP interfaces.				
<b>PRODUCT WARRANTY</b>	5-Year Limited Product Warranty				

- \* Measured using a Rosslare MIFARE Classic EV1 (ISO Card). Read range with other credential technologies may vary. Range also depends on electrical environment and proximity to metal.
- \*\* Control lines are factory programmable and can be custom configured upon request.
- \*\*\* Standard readers output the Wiegand CSN data in Wiegand 26-Bit format by default. Other formats such as Clock & Data and Wiegand 32-, 32R-, 34-, 40-, 56-, and 64-Bit can be selected using the CS-HCT Hardware Configuration Tool for the DR-6255 application or locally selected via keypad programming. Custom formats are available upon request.

## ABOUT ROSSLARE SECURITY

Rosslare Security Products manufactures and markets high-quality security products via its worldwide offices and channel partners. Since 1980, Rosslare has offered high-quality systems for enterprise, small business, and residential applications. With Rosslare, you receive the best of all worlds: world-class product engineering and design; professional customer service spanning the globe; and the quality and affordability of a vertically integrated and self-owned manufacturing facility. Our expansive product range features much more than access control solutions and guard patrol management systems; we also offer applications software – such as License Plate Recognition, Time & Attendance, and DVR/alarm integration.

[www.rosslaresecurity.com](http://www.rosslaresecurity.com)

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