

# AY-x6255

CSN SELECT Smart Card Readers (Rev. A)



The CSN SELECT AY-x6255 is a family of multi-credential technology contactless smart card (13.56 MHz) readers 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 implementations including ISO14443A/B, ISO15693, and ISO18092, perfect for transitioning from one technology to another. Available in multiple mounting options, 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 and output the CSN as a 26-Bit Wiegand output. 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)
- Multiple mounting options including micro-mullion, mullion, US gangbox and UK/Asia gangbox

- Standard readers output the Wiegand CSN data in Wiegand 26-Bit format, with other Wiegand formats available upon request

## 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 lines available with a firmware update can enable hold line ignore or buffered functionality
- 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

# SPECIFICATIONS

| ELECTRICAL SPECIFICATIONS     |  | AY-K6255   | AY-L6255                                       | AY-M6255  | AY-H6255 |
|-------------------------------|--|--|--|---|----------|
| ■ Operating Voltage Range     | 8 ~ 16 VDC, from a regulated power supply  |  |  |   |          |
| ■ Standby Current @12V        | 55 mA  | 55 mA  | 75 mA  | 75 mA   |          |
| ■ Maximum Current @12V        | 80 mA  | 80 mA  | 110 mA   | 110 mA  |          |
| ■ Read Range*                 | 5 cm (2 in.)   | 7 cm (2.9 in.)   | 9 cm (3.5 in.)                                 | 9 cm (3.5 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)<br>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 |
| ■ Dimensions (H x W x D)      | 80.5 × 40.5 × 14.7 mm<br>(3.2 x 1.6 x 0.6 in.)   | 145.0 × 43.0 × 22.3 mm<br>(5.7 x 1.7 x 0.9 in.)  | 89.5 × 88.5 × 16.9 mm<br>(3.5 x 3.5 x 0.7 in.) | 110.7 × 75.0 x 17.0 mm<br>(4.4 x 3.0 x 0.7 in.) |          |
| ■ Weight                      | 73 g<br>(2.6 oz.)  | 130 g<br>(4.6 oz.)   | 167 g<br>(5.9 oz.)                             | 177 g<br>(6.2 oz.)                              |          |
| SYSTEM COMPONENTS             |  | 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. |  |   |          |
| PRODUCT WARRANTY              |  | 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 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.

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