

AY-H6255BT

CSN SMART™ Smart Card Readers
with NFC-ID and BLE-ID Transparent mode (Rev A)

CSN
SMART

* Preliminary



The CSN SMART™ AY-H6255BT is an innovative reader that lets cardholders use smartphone apps as credentials in access control systems by BLE-ID and NFC-ID compatible apps. The unit features three technologies: a built-in CSN smart card (13.56 MHz) reader, an NFC-ID reader, and a Bluetooth BLE-ID reader node that supports BLE-ID transmitted by both Android and iOS smartphone apps.

GENERAL DESCRIPTION

The innovative AY-H6255BT reader is fully featured with professional features such as configuration card programming, programmable output formats and OSDP bus command support. It can read the CSN of the most popular 13.56 MHz smart cards in the security industry, and has NFC-ID compatibility (up to 7-cm read range) with Android smart phones having HCE (Host Card Emulation) App. It is also a Bluetooth BLE-ID reader (up to 12-m read range) that is able to connect and receive a BLE-ID from BLE devices and smartphone apps. Wiring is done by a 5-meter, 10-lead pigtail, which consists of four individual control lines for green LED control, yellow LED control, and buzzer control inputs. The unit is potted and enclosed in a UV-resistant IP65 enclosure that is protected by an optical wall tamper sensor.

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)
- Reads NFC-ID
- Compatible with the Rosslare's Android App – Host Card Emulation (HCE) NFC-ID
- Selectable output formats (Wiegand 26-Bit to 64-Bit) and LED and buzzer controls using configuration cards
- OSDP – SIA Open Standard Device Protocol V 2.1.6 (DIP switch for up to 32 addresses)
- Internal Bluetooth BLE mini-host can connect to smartphone BLE-ID to Wiegand services

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

■ Operating Voltage Range	8 ~ 16 VDC, from a regulated power supply
■ Current Consumption @12V DC	Standby Current: 110 mA, Maximum Current: 185 mA
■ Bluetooth BLE Read Range	From 1 m (3 ft) to 10 m (32.5 ft) line of sight
■ RFID and NFC Read Range*	5 cm to 10 m (3.5 in.) Depending on NFC Device
■ 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, AY-H6255BT

ENVIRONMENTAL SPECIFICATIONS

■ Operating Environment	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

■ Dimensions (H x W x D)	110.7 × 75.0 × 17.0 mm (4.4 x 3.0 x 0.7 in.)
■ Weight	177 g (6.2 oz.)

SYSTEM COMPONENTS

The AY-H6255BT reader is compatible with a variety of Rosslare controllers, as well as with many third-party access control systems supporting Wiegand or OSDP interfaces.

PRODUCT WARRANTY

3-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-CCT Card Configuration Tool 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.

www.rosslaresecurity.com

MIFARE, Ultralight, Classic, Plus, DESFire and iCode are registered trademarks of NXP B. V.
iClass is a registered trademark of HID
FeliCa is a registered trademark of Sony
All data contained herein subject to change without notice

5505-0318101-00
Copyright © Rosslare



ROSSLARE
SECURITY PRODUCTS
Experience the Difference