The AY-U920BT is a unique UHF-RFID credential reader with Rosslare BLE-ID™ credential read capability (for both iOS and Android). Installers can configure a wide range of operating parameters using our Rosslare BLE-Admin™ app. AY-U920BT brings a new level of convenience and productivity. The UHF read mode is ISO18000-6C (EPC GEN2) compliant. The reader is suitable for outdoor use in a wide range of RFID applications such as access control, transport management, vehicle management, car parking, and production process control, and works with almost every third-party controller. Choose Rosslare for professional “Security that lasts”.

GENERAL DESCRIPTION
By reading both UHF and Bluetooth (BLE), the reader enables system integrators to develop new solutions, such as multi-factor authentication. The AY-U920BT can be configured to read up to 70 credentials within the read range, and to buffer the output to the host controller in Wiegand 26-Bit to 64-Bit or SIA OSDP. The reader comes with an installation bracket kit for pole mounting, a 5-m-long 10-wire cable, and a switching power supply. The RS-485 OSDP wiring allows a maximum cable distance of 1000 m (3280 ft), and the Wiegand wiring allows a maximum cable distance to the host controller of 150 m (492 ft).

MAIN FEATURES
- MD-81 functionality built in
- Wide range of UHF credential form factors available
- UHF read range up to 12 m (39 ft)

PROFESSIONAL GRADE FEATURES
- Supports Bluetooth communication for Rosslare BLE-ID™ smartphone apps for Android and iOS
- Can read up to 10 credentials per second or down to 1 credential per second (programmable)
- IP65 for indoor and outdoor use
- RGB LED used for operational indication

- Supports OSDP reader profile according to v2.1.7 standard from Security Industry Association (SIA)
- Supports mobile Admin app for parameter configuration capability
SPECIFICATIONS

ELECTRICAL SPECIFICATIONS
- Operating Voltage Range: 9 to 15 VDC (2 A)
- Input Current: Standby: 0.2 A max, Read: 1.2 A max
- Credential Reading Distance*: 0.5 to 12 m (1.6 to 39.4 ft) (adjustable)
  * Read range was tested with Rosslare’s LT-UVS-26A-3000 card
- BLE-ID Credential Reading Distance*: Up to 12 m (39.4 ft) (adjustable) – Line of sight.
  * Read range was tested with iPhone7 and Huawei P10
- Transmission Protocol: Wiegand 26-Bit (Custom: Wiegand 34-Bit up to 64-Bit)
- Maximum Cable Distance: 150 m (492 ft) with 18” AWG cable
- Frequency:
  - AY-U920 BT US: 902–928 MHz (America) RFID
  - AY-U920 BT EU: 865–868 MHz (Europe) RFID
  - Bluetooth: 2.402-2.480 GHz
- Hopping: The reader uses frequency hopping.
- Read Sensitivity: Dual polarization read mode
- Cards and Tags: Rosslare’s LT-UVS-26A-3000 and LT-UVH-26A-7000
  - EPC GEN2 (ISO18000-6C) tags
  - BLE-ID soft credentials

ENVIRONMENTAL SPECIFICATIONS
- Operating Temp. Range: -35°C to 60°C (-31°F to 140°F)
- Operating Humidity Range: 0 to 95% (non-condensing)
  Suitable for outdoor use (IP65)

PHYSICAL SPECIFICATIONS
- Dimensions: 36.5 x 36.5 x 3.2 cm (14.4 x 14.4 x 1.3 in.)
- Weight: 2.8 kg (6.2 lb)

SYSTEM COMPONENTS
The AY-U920BT is compatible with standard access controllers.
Packaging Includes AY-U920BT with 5-meter pigtail cable, pole mounting bracket, screw kit, AC/DC 2-amp power supply (gross).

UHF CREDENTIALS
Please refer to the UHF credentials datasheet for additional details about the compatible UHF credentials.

PRODUCT WARRANTY
2-year limited product warranty

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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When installing the UHF credential inside a vehicle, make sure that the vehicle is not RF proof.