

HAR300 Datasheet



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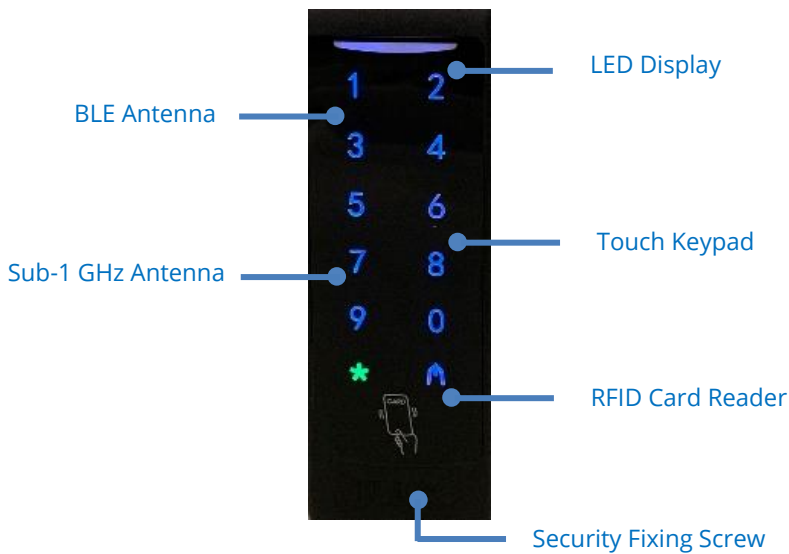
Introduction

The HAR300 is modern access control reader that appeals to the modern environment. It is a feature rich and most installed in common areas/gates/front doors for accommodation sites.

Supports the latest technologies including:

- RFID technology
- Mobile Access
- Connectivity to S1 Gateway
- Keypad

Images



Technical Specifications

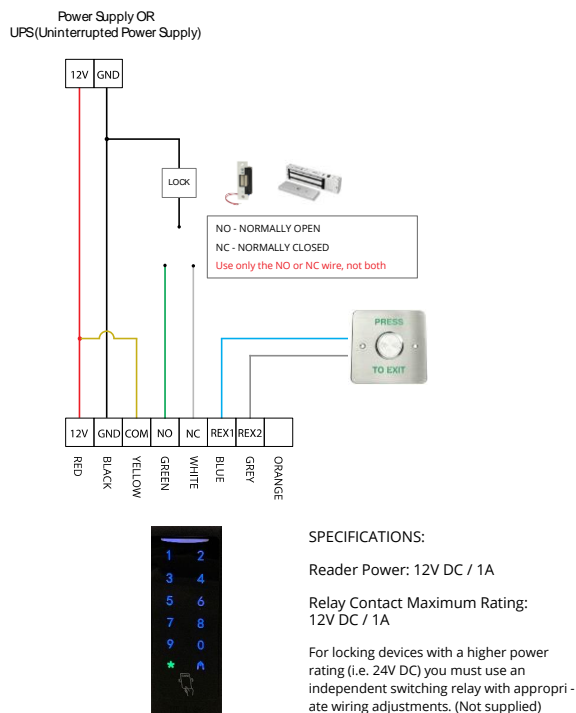
RFID Specifications	13.56MHz Technology ISO 14443A (MIFARE)
Mobile Access	Bluetooth Low Energy (BLE) Smart 4.0
Working Voltage	DC 12V ~ 1A
Peak Current Consumption	100mA
Working Temp	-20 to 60 Degrees Celsius
Working Humidity	20% - 90%
Emergency Power Supply	N/A - If required an additional UPS supply can be wired separately
Card Read Time	<0.8s
User Interface	3 LED display (Green, Red) with buzzer <ul style="list-style-type: none"> ● Invalid Card (Flash once, two beeps) ● Valid Card (Flash once, one beep) ● Keypad LEDs (Permanently solid, can switch off by software programming)
Weather Resistant	Thick lacquer coating on PCBA, silicon seal around top, sides is necessary for outdoors
Relay Output	Dry contact (no voltage) If an electric lock is required, it can be powered from another dedicated power source. This reader is compatible with contact switches for gates/garage doors/lifts etc. Just wire the COM, NC, NO terminals to the required location.
Relay Contact Rating	Maximum: 0.5A 125V AC / 1A 30V DC
Relay Energize Time	6 seconds (not configurable)

Dimensions

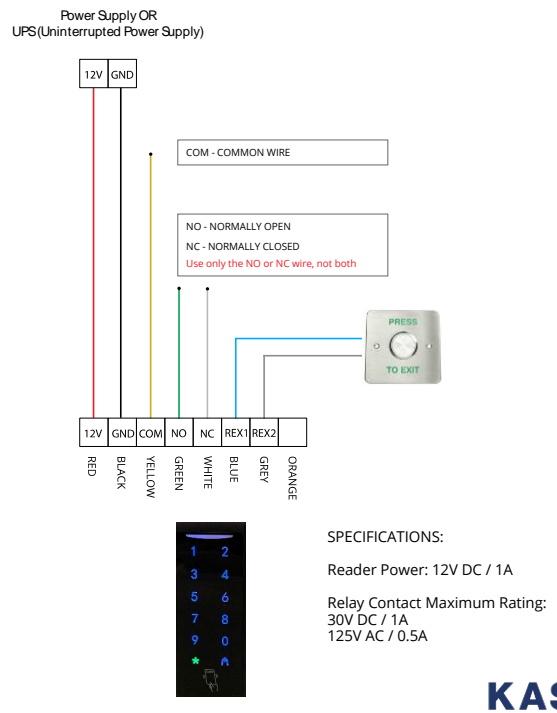
Width x Height x Depth = 40 mm x 115 mm x 25.6 mm

Wiring Diagram

Access Control Reader Wiring Diagram for Locking Devices

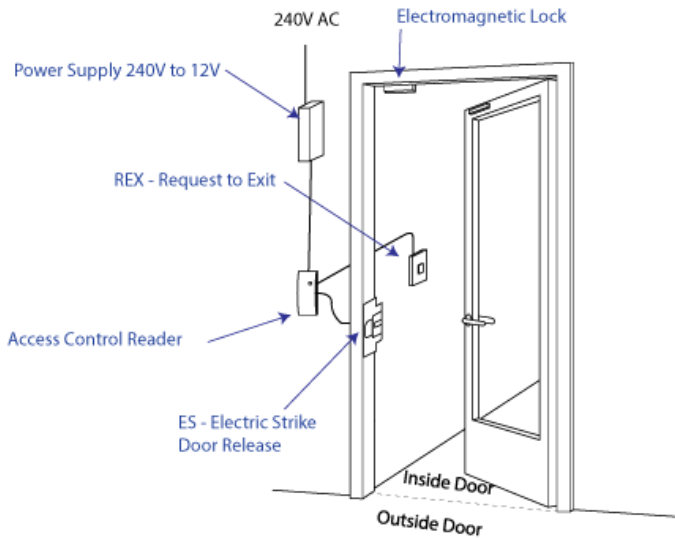


Access Control Reader Wiring Diagram for Electrically Activated Doors or Contact Switch



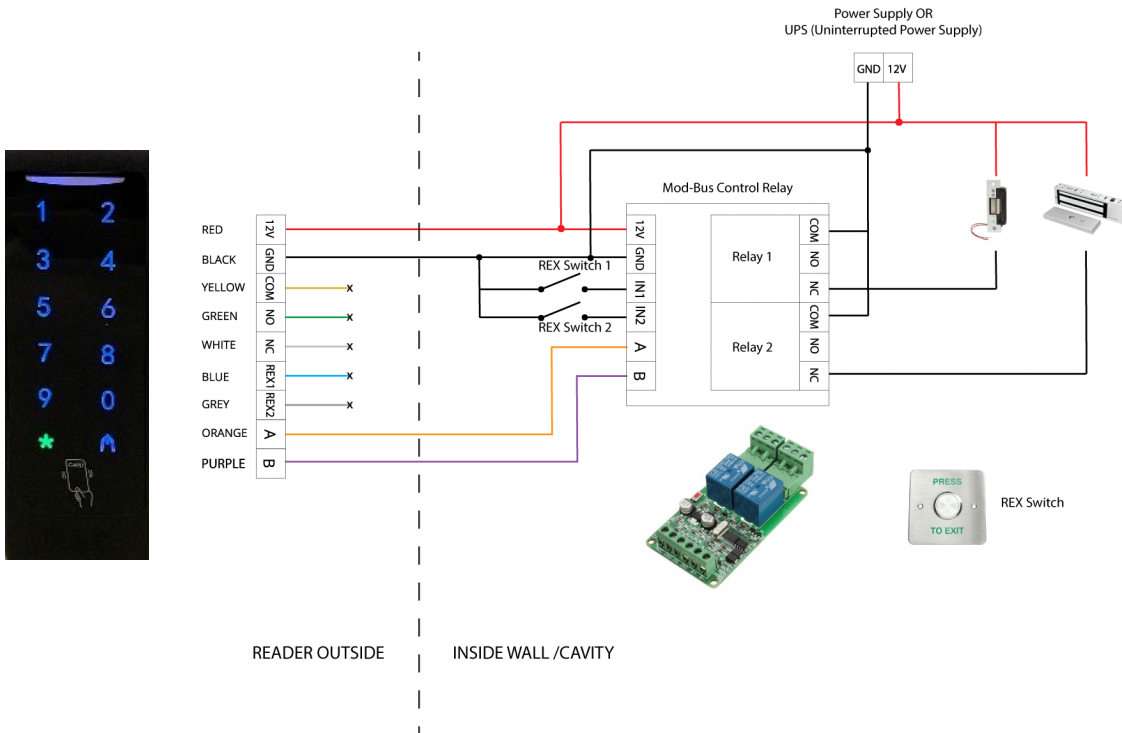
Installation

- Cat-5 or Cat-6 cables is a suitable wire type for the ACR Power (Red, Black), REX switch (Grey, Blue), and NO, COM, NC wires (Yellow, White, Green) if using the relay as a dry contact or to switch a low powered electric strike (12V DC ~ 1A).
- If using a high power electric strike or high powered electromagnetic lock, wire a figure 8 cable (or equivalent) between the power supply and the electric strike or electromagnetic lock.
- Max length for a Cat-5 cable between the Power Supply and ACR reader unit: **50 m**
- Standard ACR and Bluetooth ACR is not waterproof and requires a cover and/or silicon after installation for water protection.
- 240V AC to 12V DC Power supply is **not** supplied with this product.



Extender Reader + Relay Control Module Usage

- The HAR300 can be used as an extender reader and control module.
- The Control Module can only be purchased from KAS. KAS flash a special encrypted firmware into the control module for data protection.
- No Setup Required – Plug and Play operation. Power cycle the entire system if the reader is not communicating to the Control Relay. Upon Power Cycle the correct communicate will be established.
- Note: Please terminate all cables where indicated on below diagram.
- ORANGE and PURPLE cables are RS-485 data cables.
- If the BLUE and GREY wires are shorted, the signal will not be sent to the Mod-Bus Relay to open the door. Only a card, pin code, Bluetooth key, gateway can send the signal to open the door.
- Mod-Bus Relay 1 and Relay 2 will fire at the same time.



Gateway Connectivity

- The HAR300 can receive online/internet control if a Gateway is activated in close proximity.
- The Gateway and HAR300 will automatically discover and establish an online connection.

Obstruction Clearance Zone	<ul style="list-style-type: none"> • Ensure no walls or beams are not obstructing the gateway. • i.e Install the Gateway in the centre of the hallway and as far away from walls as possible
Working Range	<ul style="list-style-type: none"> • Approximately 25m-30m. Depending on obstructions and local interferences

