

# MANUAL

## EXIT BUTTON

### Description

Lumiring's AIR-B No Touch Exit Button is widely used in access control and security applications where on-demand passage opening control is required.

The unit's small size and stylish design extend installation options to narrow door trims or wall panels.

And its easy-to-see light indicator makes it easy to locate the button when the device is installed in poorly lit areas.

AIR-B provides efficient and convenient access control, minimizes false alarms, and ensures safe passage through doorways, making it an essential component in security and access control systems.

AIR-B



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## Introduction

This document provides detailed information on the structure, installation, and connection of the AIR-B proximity exit button.

It also includes instructions for preventing or troubleshooting many common problems.

This guide is for informational purposes only, and in the event of any discrepancies, the actual product takes precedence.

All instructions, software, and functionality are subject to change without prior notice.

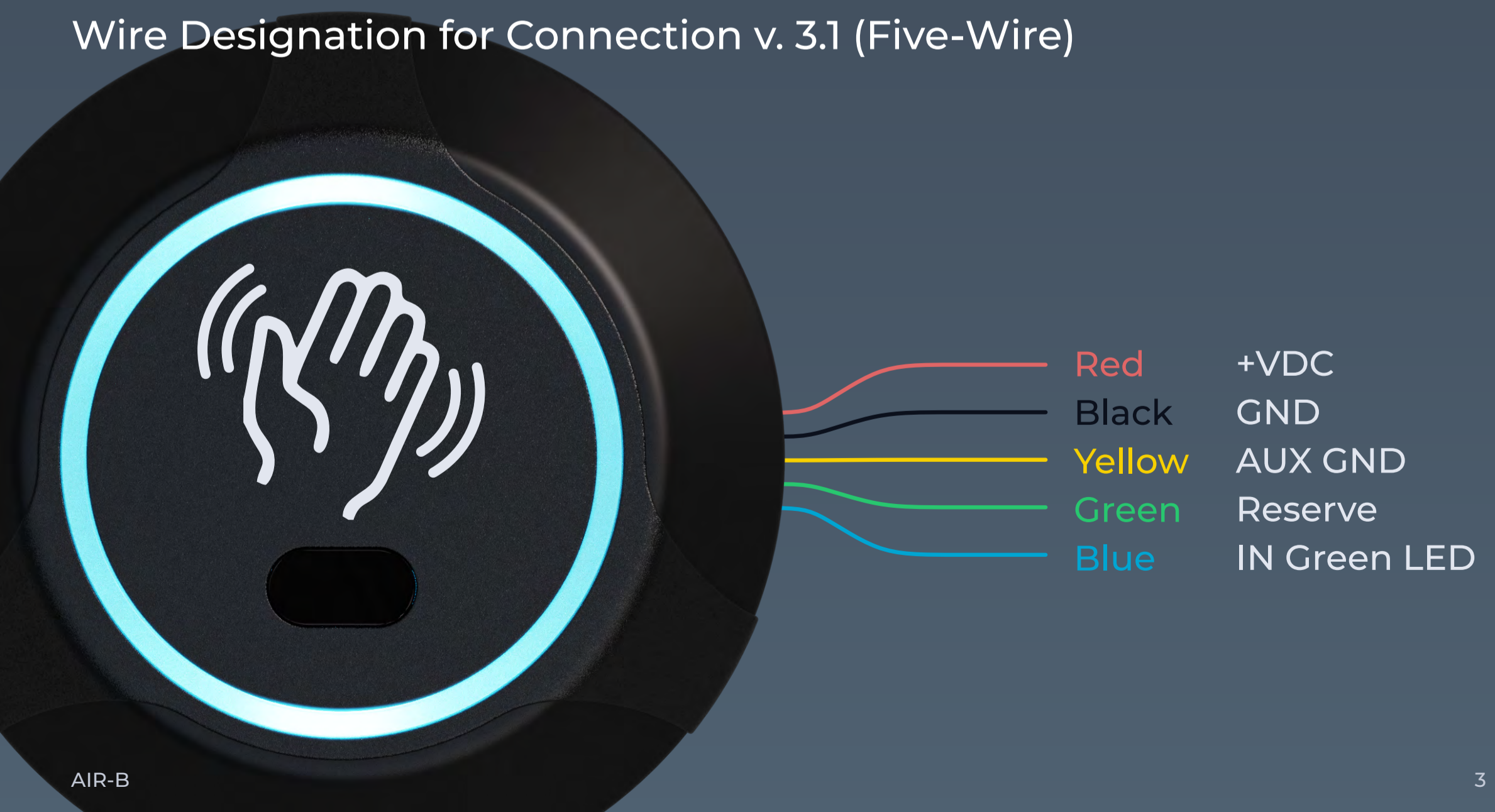
The latest version of the manual and additional documentation can be found on our website or by contacting customer support.

The user or installer is responsible for complying with local laws and privacy regulations when collecting personal data during the use of the product.

## Default Device Settings

- Distance 3.93" (10 cm)
- Delay 0.1 sec.
- Aux Out work mode NO (normally open)
- Buzzer On

## Wire Designation for Connection v. 3.1 (Five-Wire)



# Device Specifications

## Device info

- Model AIR-B v.3.1 (five-wire)
- Sensor type Laser
- Distance 3.93"/7.88"/11.81"/19.68" (10/20/30/50 cm)
- Indication 2 color LED
- Buzzer Yes
- Open delay, second 0.1/3/6/9

## Physical connections

- Blue wire (input) Green indication status
- Yellow wire (Aux Out) Open collector

## Electrical characteristics

- Input voltage 12-24 VDC +/- 10 %
- Operation current (MAX) 12 VDC 0.11 A (1.3 W)
- Switching current (MAX) 12 VDC Aux Out 0.2 A (4 W)
- Output short-circuit protection Yes
- Power supply reverse polarity protection Yes

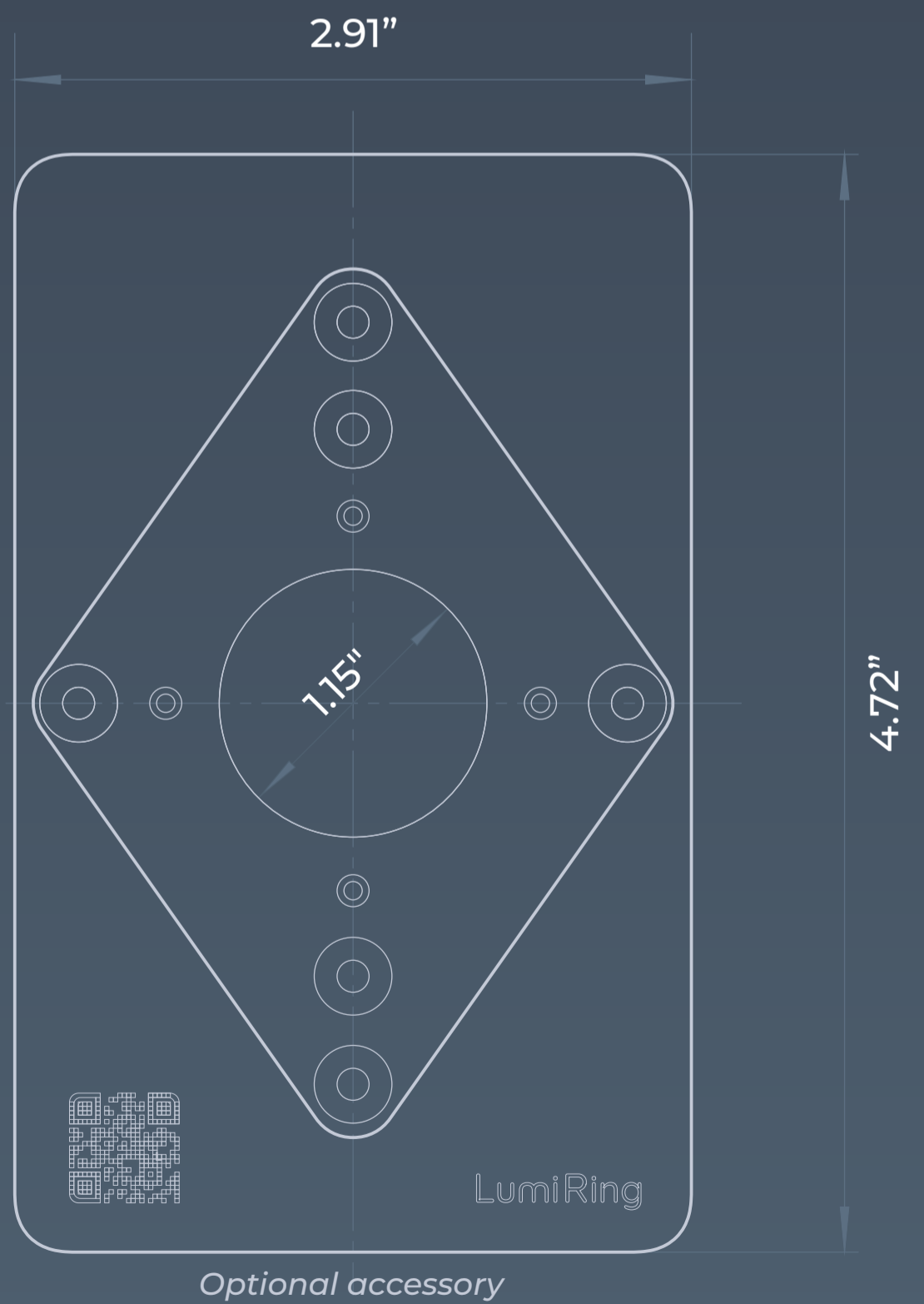
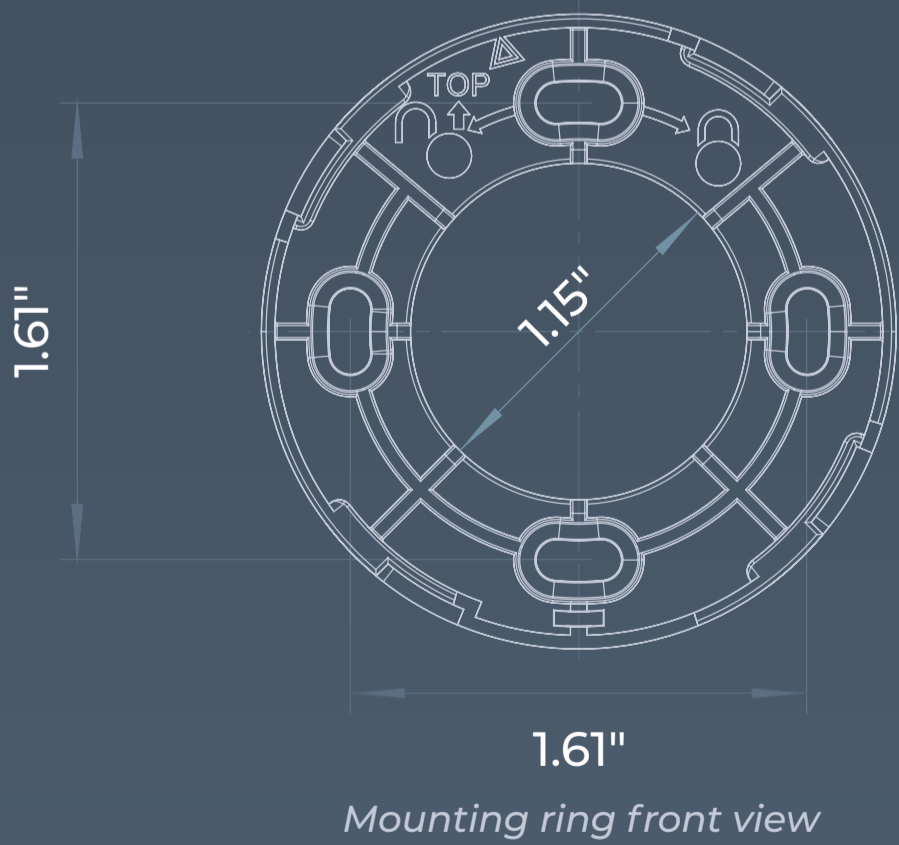
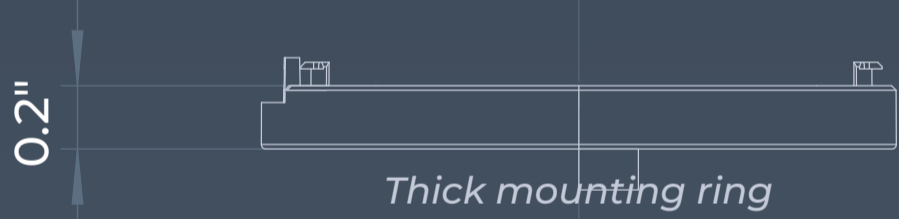
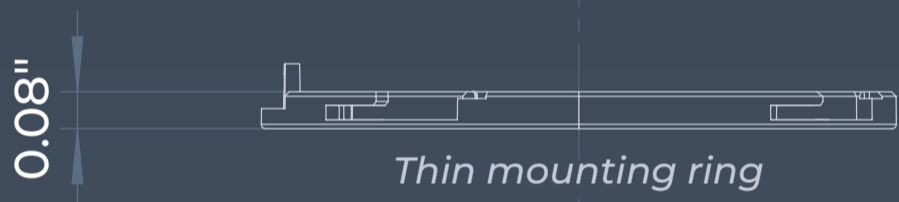
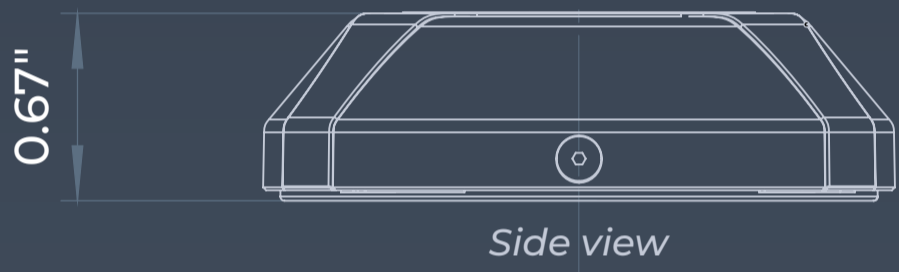
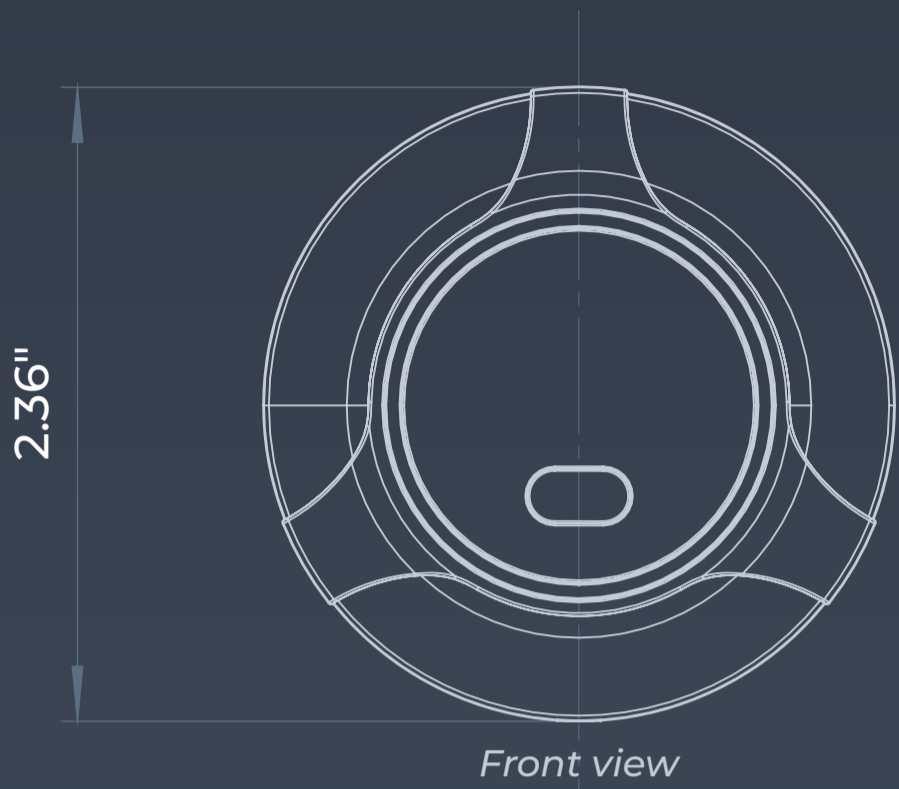
## Environmental requirements

- Operating temperature -22°F ~ 158°F (-30°C ~ 70°C)
- Ingress Protection rating IP65

## Physical characteristics

- Housing material ABS plastic UL94 V-0
- Mounting method Wall mount
- Dimensions (diameter, height) 2.36" x 0.67" (60 x 17 mm)  
(mounting ring) 2.36" x 0.86" (60 x 22 mm)
- Weight 1.59 oz (45 g)

# Device Dimensions



## Installation Recommendations

### Installation

When installing the device inside the door frame, consider the width of the frame and the desired activation distance. Proper placement will ensure optimal functionality and ease of use.

### Commutation

It is important to note that the switchable current should not exceed 0.2 Amper when connecting the load directly. If the current exceeds this limit, it is advisable to use a relay to ensure safe operation and protect the components.

### False positives

In the event of sensor contamination or the presence of foreign objects within the sensor's sensitivity range, the device will provide an audible alert and the backlight will flash at a variable frequency. To resolve this, clean the sensor using a damp cloth followed by a dry cloth, or remove any foreign objects that may be obstructing the sensor.

### Additional indication

Optionally, you can connect the status wire for external indication to the controller or reader contact responsible for displaying the green indicator for authorized passage. This feature allows for real-time display of the current passage status, providing additional information and convenience.

### Setup menu

There is a simple and easy-to-use menu for setting the exit button, which is navigated using the Mode and Select buttons.



# Structure of the Setup Menu



# Connection of the Electric Mechanical Lock via Relay

## Connection Diagram



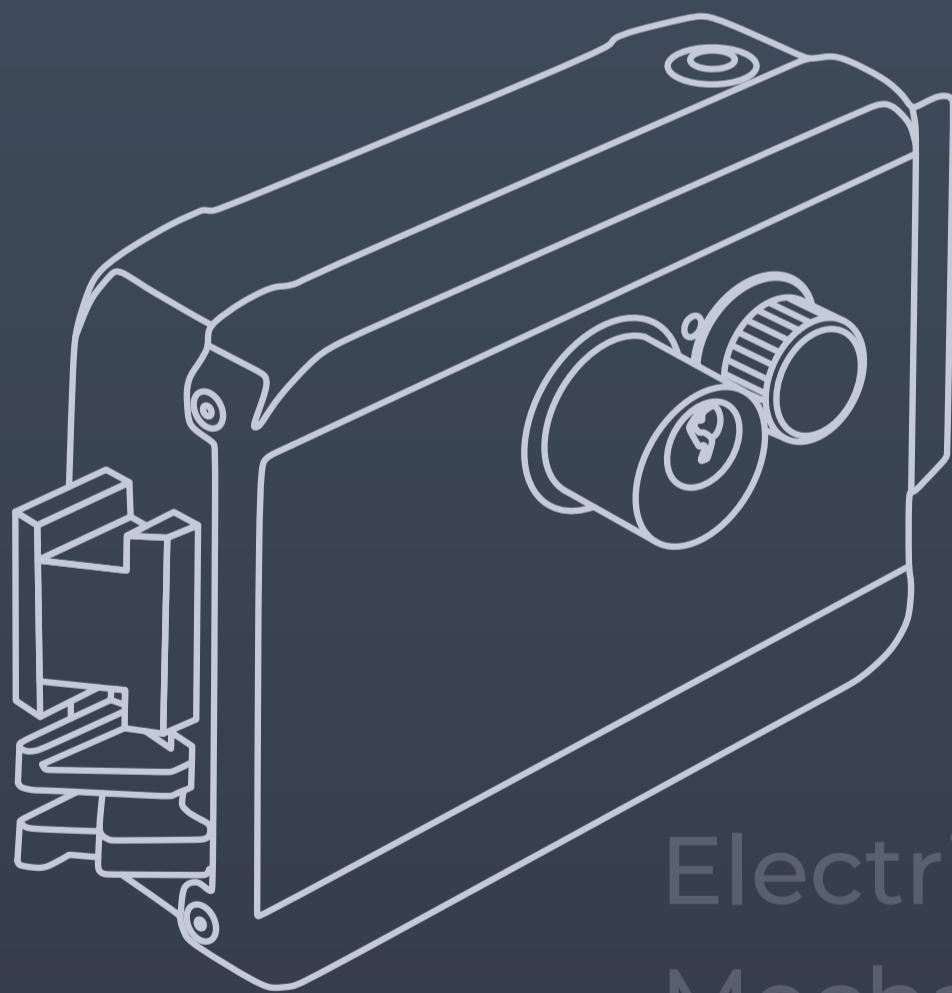
The configured opening delay time must not exceed 3 seconds.



Make sure that the power supply voltage meets the recommended requirements.



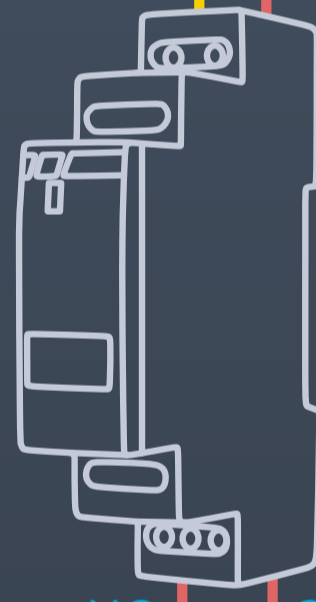
AIR-B



Electric Mechanical Lock



Use Correct Polarity!



Relay



The voltage level of the power supply and the Exit Button AIR-B may differ depending on the cable length and the resistance of the conductor. Use a separate power supply to connect the Exit Button AIR-B if the cable is longer than 165 feet or the voltage at the end of the line is less than 10 volts.

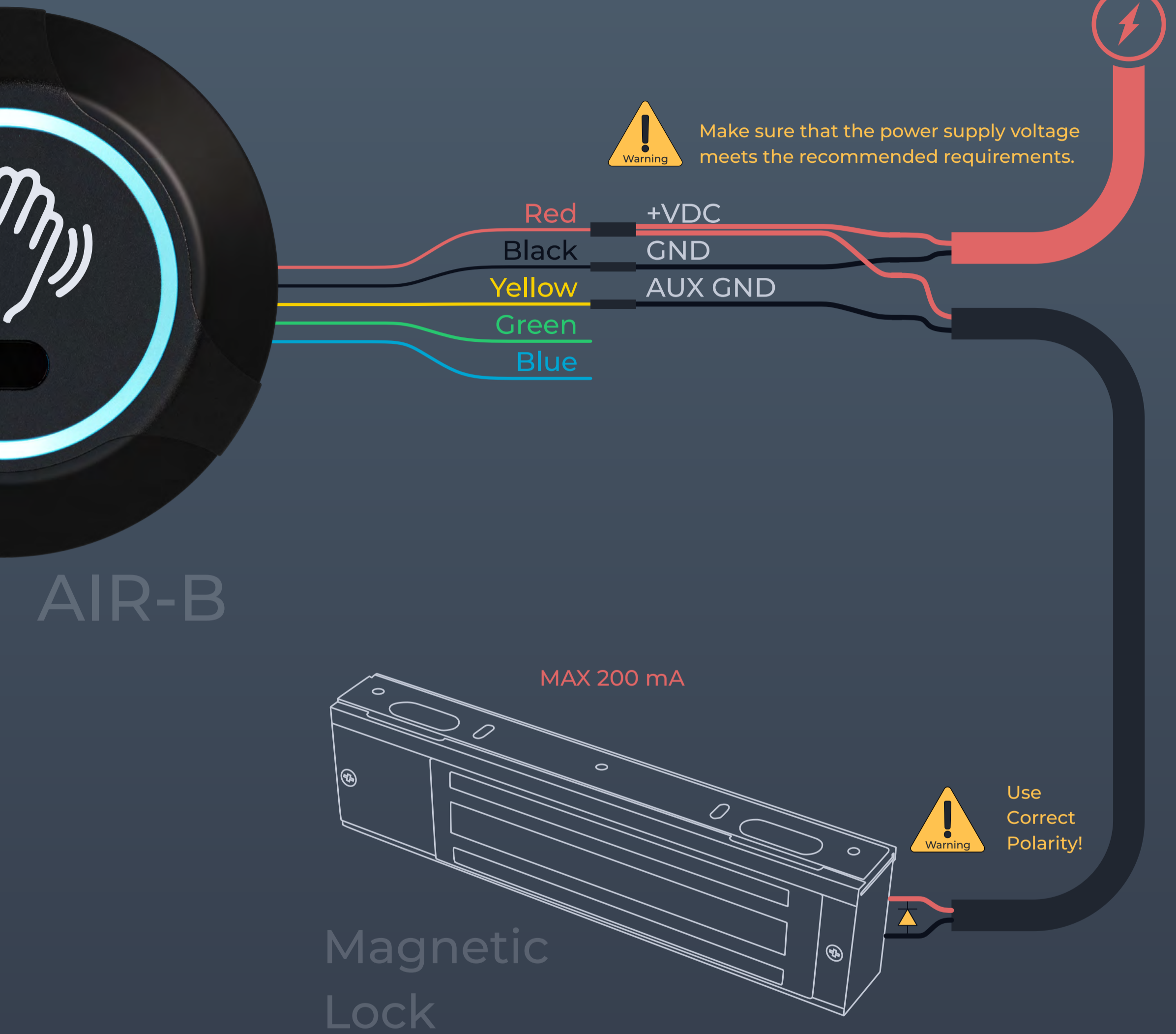
**DO NOT DIRECTLY CONNECT ELECTRIC LOCKS WITH HIGH CURRENT CONSUMPTION!  
USE AN ADDITIONAL RELAY TO CONNECT ELECTRIC LOCKS WITH HIGH CURRENT CONSUMPTION!  
DO NOT USE POWER SUPPLIES WITH DIFFERENT VOLTAGE LEVELS!**

Use a multimeter in the VDC measurement mode to verify that the power supply voltage meets the recommended requirements.



# Direct Connection of the Magnetic Lock

## Connection Diagram



The voltage level of the power supply and the Exit Button AIR-B may differ depending on the cable length and the resistance of the conductor. Use a separate power supply to connect the Exit Button AIR-B if the cable is longer than 165 feet or the voltage at the end of the line is less than 10 volts.

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Use a multimeter in the VDC measurement mode to verify that the power supply voltage meets the recommended requirements.

# Connecting to ICON-Pro

## Connection Diagram



The connection to the "DOOR 2", "DOOR 3" and, "DOOR 4" connector is done in the same way.



PoE

Power Over Ethernet



AIR-B



AIR-R

- Red +VDC
- Black GND
- Yellow REX
- Green Reserved
- Blue G LED

TYPE-C	USB	LAN POE
STATUS	LED	
GND	POWER IN	
+12/24 VDC		
CONTACT 2	DOOR 2	
GND		
REX 2		
+VDC	WIEGAND 2	
GND		
BUZZER		
LED		
D 1		
D 0	DOOR 1	
CONTACT 1		
GND		
REX 1		
+VDC	WIEGAND 1	
GND		
BUZZER		
LED		
D 1		
D 0		

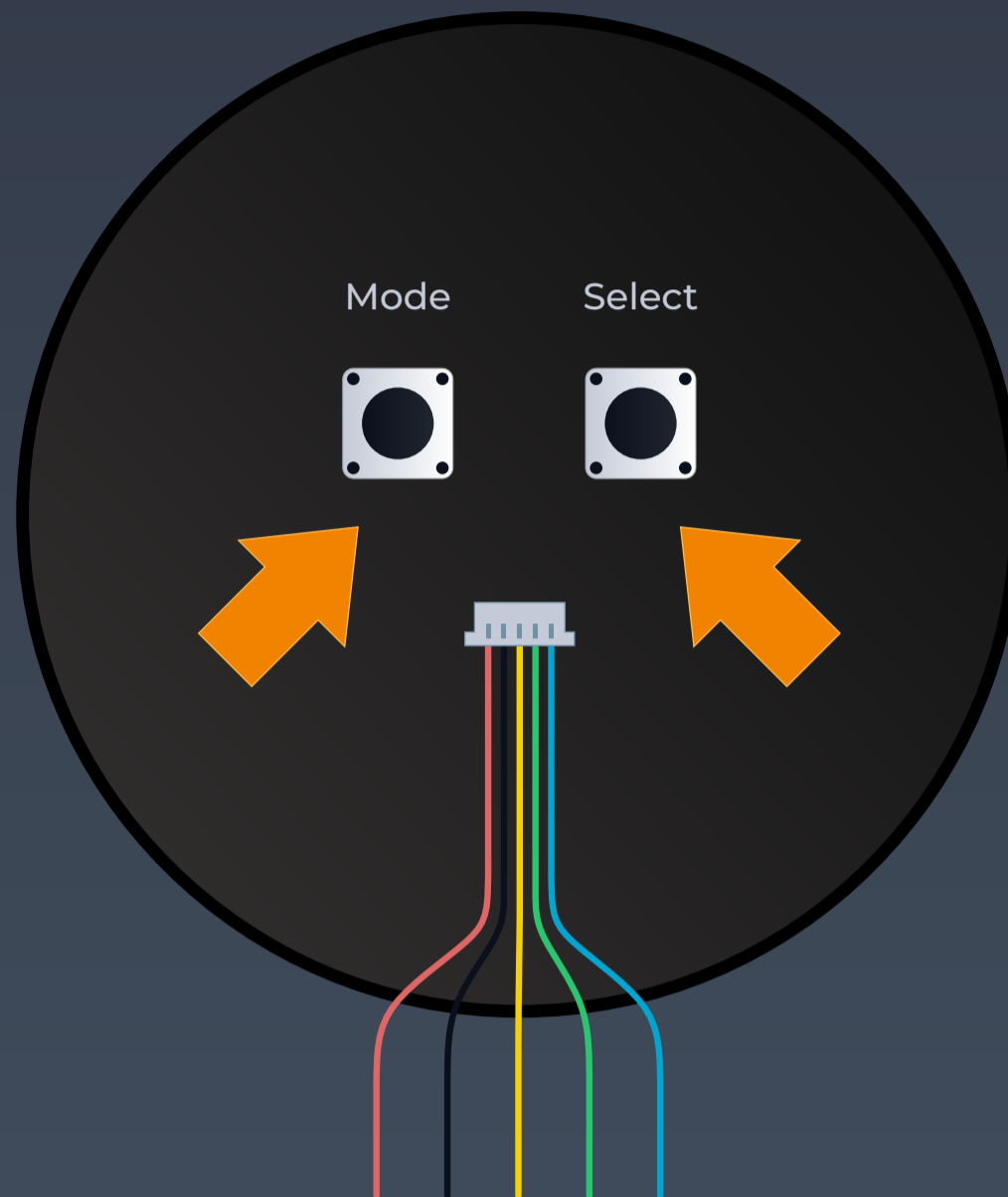


ICON-PRO NETWORK ACCESS CONTROLLER

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## Hardware Reset Using the Buttons

**Press and hold the Mode and Select buttons simultaneously.**



### Hardware reset

1. Make sure that the device is connected to a power source.
2. Press and hold the "Mode" and "Select" buttons simultaneously.
3. Wait for the device to emit one short beep and a long beep for 5 seconds.
4. Release the buttons immediately after the beep ends.
5. Disconnect the unit from the power source and reconnect it.
6. The hardware reset is complete. The device is ready for operation.



For Notes

