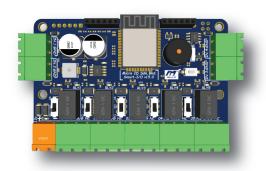# Micro ID Smart Smart Interlocking Module

The Micro ID Interlocking device is designed to support interlock systems for 2, 4, or multiple doors. It operates by ensuring that no more than one door can be opened at any given time, thereby creating an airlock between the inner and outer environments. This functionality is critical in maintaining the integrity of controlled areas, such as clean rooms, laboratories, or secure zones.

The interlocking module can function as a standalone device, offering flexibility in its application. Whether integrated with an existing security system or used independently, the Micro ID Interlocking device enhances safety and environmental control by managing door access efficiently.
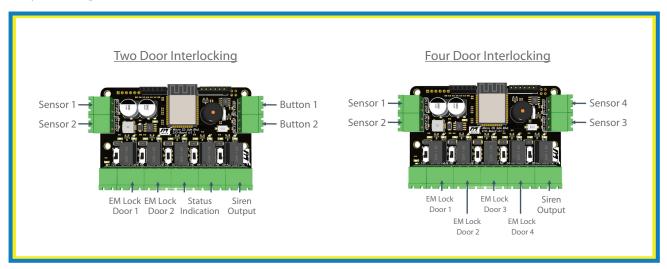
Features

- Fail-Safe and Fail-Secure Options: The device is switchable between fail-safe and fail-secure locks, allowing for customization based on security and safety needs.
- Compatibility: It works seamlessly with third-party access control systems or can operate as a standalone unit, offering flexibility in various setups.
- Scalability: Multiple units can be connected for scenarios requiring the interlocking of more than 4 doors, making it suitable for complex environments.
- Ease of Installation: The device is designed for simple wiring, ensuring quick and straight forward installation.

Specification

Power Input	12VDC	Processor	ESP32
Operation Current	100mA	Lock Relay Voltage	30Vdc max
Input	4 x Free Contact Input	Lock Relay Current	1A max
Output	5 relays output	Dimension	85 x 107 x 12 mm

Layout Diagram

Two Door Interlocking

Sensor 1 — Sensor 2 — Button 1 — Button 2 — EM Lock Door 1 — EM Lock Door 2 — Status Indication — Siren Output

Four Door Interlocking

Sensor 1 — Sensor 2 — Sensor 4 — Sensor 3 — EM Lock Door 1 — EM Lock Door 2 — EM Lock Door 3 — EM Lock Door 4 — Siren Output