

ILM-300

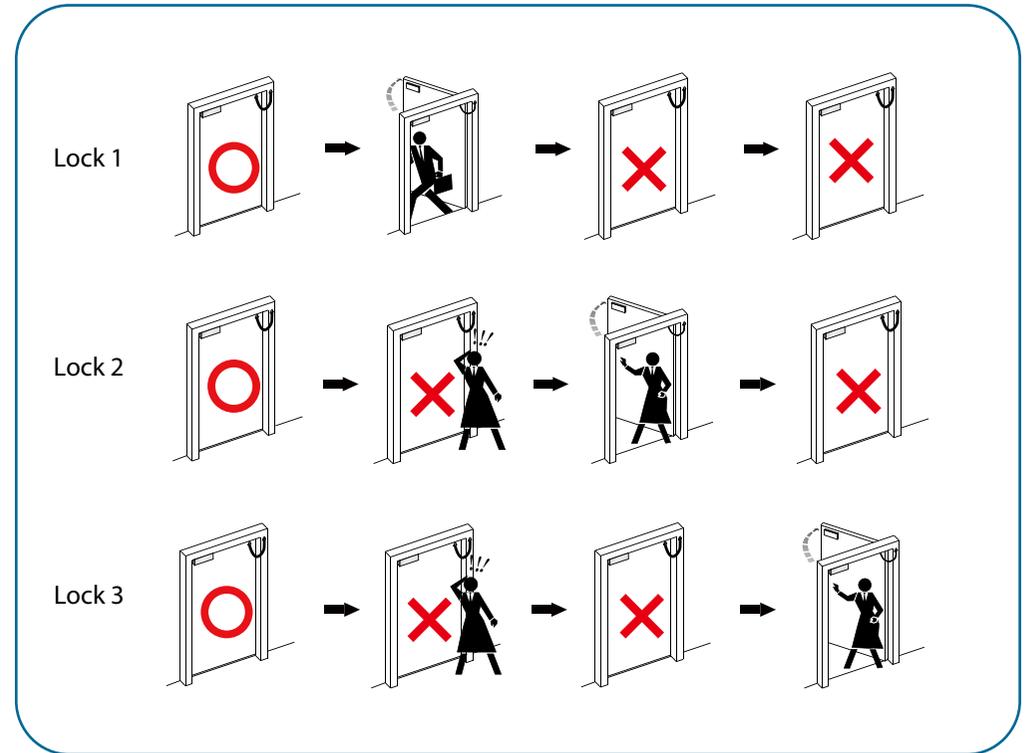
Three-Door Interlocking Relay Module

ILM-300 is an interlocking relay module for a three-door egress control. The module is designed with a jumper to easily select between fail-safe and fail-secure electric locks. The control module integrates three electrified door locks alternately from changeover relays to allow egress from only one of the doors at any given time. ILM-300 can also be used in a two-door setting by shorting the third relay contacts. Wiring multiple ILM-300 modules can also create a solution for environment with more than three doors.



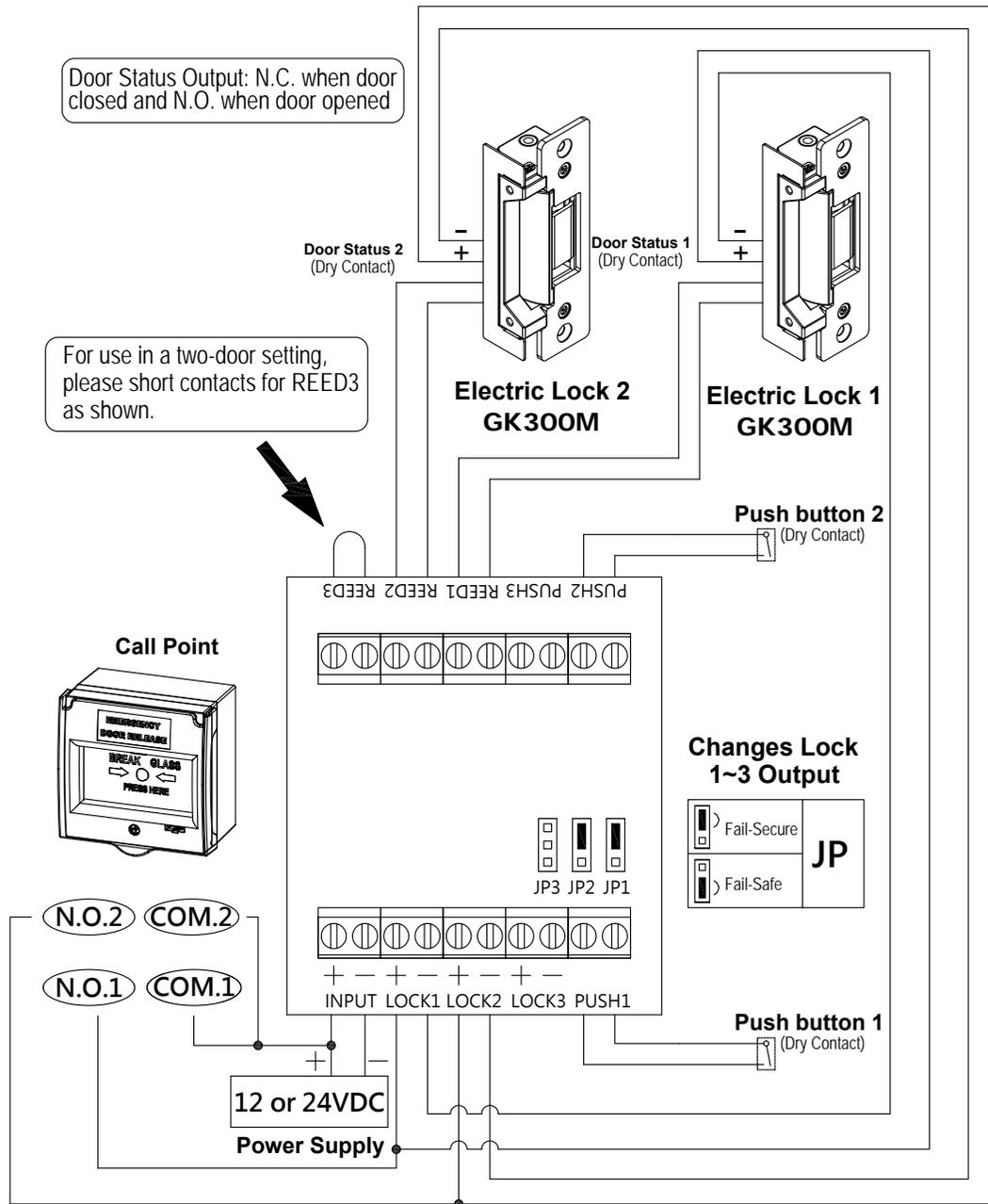
- ◆ Dimension: 73(L) x 63(W) mm (fits inside European single-gang box)
- ◆ Relay Rating: 3A@120VAC, 30VDC
- ◆ Power Input: 12VDC or 24VDC
(must be the same voltage as input for LOCK1, LOCK2 and LOCK3)
- ◆ Operating Temperature: -20~70°C
- ◆ Humidity: 0~95% non-condensing
- ◆ For use with both fail-secure and fail-safe locks and can be configured individually (JP setting)
- ◆ Fail-Secure Locks: Electric dropbolts should be latchbolt type. Electric strikes must be paired with a latch (e.g. LS-2200)
- ◆ Must have exit buttons (to connect with PUSH)
- ◆ Electric locks must have door status output (to connect with REED)
- ◆ May wire with call points in case of emergency

Schematic to Illustrate the Interlocking Mechanism in a Three-Door Setting



1. All three doors (Lock 1, Lock 2 and Lock 3) are all closed and locked.
2. When one of the doors (e.g. Lock 1) is opened, then the other two doors (e.g. Lock 2 and Lock 3) are locked until Door 1/Lock 1 is closed.
3. All doors are closed. Lock 2 is about to be accessed.
4. Lock 2 is opened and unlocked. Lock 1 and Lock 3 cannot be opened/unlocked.
5. All doors are closed. Lock 3 is about to be accessed.
6. Lock 3 is opened and unlocked. Lock 1 and Lock 2 cannot be opened/unlocked.
7. Any one of the door can be opened/unlocked now all three doors are closed/locked.

Fail-secure locks in a two-door setting



Fail-safe locks in a three-door setting

