Elevator Security Solution

Reassuring Building Security
Beginning with Elevators

Configuration and Specifications

Solution for residence, office and hotel

◆ Non-Service Temporary Release for Car Call (NSCR-C)
◆ Secret Call Service (SCS-B) / MelEye (WP-W) / Non-Service to Specific Floors (NS-CB)

Local agent for the arrangement and wiring.* If a card reader is provided at the elevator hall, an emergency release please refer to the MelEye brochure.
No special security device is required. For system configuration and specification of MelEye,

Interface panel (if provided)

Applicable product scale

Item Maximum
Installation
Size 300 × 300 × 100
Floors with security gates (per group)
8 gates
Security gates (per floor in a group)
2 /floors
Card readers (per group)
255 units
Access controllers
127 units
Stops (per group)
64 stops
Elevator groups (per interface panel)

Building manager’s office
Hoistway/Machinery space

(See Signal input.)

Access controller
Access controller
Access controller
Junction box
Junction box
Junction box

[1] [2] [3] [4]

Device Supplier

Mitsubishi Electric

Cable type

Cable type and communication protocol

- Cables between junction box in hoistway and junction box on car top [3]: Two twisted-pair shielded cables for signals.
- Cables between access controller and control panel [2] and cables between junction box on car top and card reader [4]: General conductors for signals (The number of conductors depends on that of contacts.)
- Cables between access controller and junction box [1]: Two twisted-pair shielded cables for signals, and four general conductors for power supply.
- Cables between access controller and junction box [1] & [2], and cables between junction box on car top and card reader [4]: Case B: An interface panel is not provided.
- Cables between junction box in hoistway and car assignment indicator [3]: Minimum two twisted-pair cables (to be shielded) for communication protocol.
- Cables between access controller and junction box [1] & [2]: Minimum two twisted-pair cables (to be shielded), to pass through the interface panel.
- Cables between access controller and interface panel [1]: Ethernet (100BASE-TX), Communication protocol: UDP/IP.

Wiring from access controller to junction box in hoistway (Main signal transmission)

- Case A: One contact per floor to release the restriction individually
- Case B: One contact per floor to release the restriction individually

For hotel

- A terminal block is required for each security gate.

For office

- No additional cable is required.

For residence

- Two twisted-pair shielded cables for signals

Wiring for other devices

Communication protocol: RS485


Specifications are subject to change without notice.

The vertical gateway to your building, elevators play an important role in ensuring building security.

**RESIDENCE**
Feeling safe and having privacy greatly affect the asset value of a residence.

**OFFICE**
In office buildings, where large numbers of people come and go, security is the most important condition for corporate activities.

**HOTEL**
For hotel guests, security is indeed the greatest form of hospitality.

Creating more secure, more convenient elevator systems as a key feature in building management systems.
Elevators play an important role in building security owing to their role of being the entrance to other floors.
The advanced security solution proposes linking Mitsubishi Electric elevators with the building security system, thereby enabling elevator access control, improved traffic efficiency, hands-free automatic operation and other convenient features. This total security system offers superior scalability, flexibility and convenience. In addition to greatly increasing security and safety, the system also provides customer satisfaction and improves a building’s asset value.

Mitsubishi Electric elevator security systems link the access control system and group control system together for more efficient operation. Smooth and efficient operation is maintained even when a security function is being executed, realizing minimal waiting time.

Mitsubishi Electric elevator security does this!
Mitsubishi Electric proposes security solutions that best match the building purpose through elevator.

**OFFICE**
Supporting business people on the go with reliable security and smooth traffic.

Solution: DOAS* integrated with security gate
Integration of elevator and security gate systems provides robust safeguard and creates seamless traffic flow.

Security gates screen out suspicious persons and block unauthorized access to the elevator hall.

- When a card is verified at a gate, an optimum elevator car is automatically dispatched to the passenger to take them to the pre-registered floor without button operation.
- Our elevator group control system reduces congestion during peak hours through optimum car allocation that minimizes waiting time and traveling time.

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**HOTEL**
A high sense of reassurance and convenience improve guest satisfaction.

Solution: Authentication inside elevator car
Elevator use is limited to hotel guests with a room key. The elevator automatically escorts the guest to the floor which is pre-set in the room key.

Once guests scan their room key in the elevator car, the system automatically escorts them to their guest room floor without requiring any button operation. Access to restricted floors can also be controlled by the room key.

A non-stop operation exclusive to certain guests such as VIP may be added as an optional feature.

**RESIDENCE**
A reassuring and stress-free home environment enhances building value.

Solution: Elevator access control from main entrance and dwelling rooms
Verifying elevator users by using intercoms eliminates the risk of intrusion and operation of elevator buttons.

- Authentication with a suite key at the main entrance restricts elevator access to residents only.
- After authentication, an elevator is immediately dispatched to the lobby floor to save passenger waiting time.

These security solutions are merely a few examples. Mitsubishi Electric can customize products to meet a building purpose and customer requests including more details, please contact our local agents.
Configuration and Specifications

Solution for residence, office and hotel

Integration with building’s security system

System configuration

- Interface panel (if required)
- Group control panel /Control panel
- Access controller
- Junction box
- Card reader
- Security gate
- Elevator hall
- Elevator car
- Intercom with card reader

Specifications

- Applicable product scale

<table>
<thead>
<tr>
<th>Item</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elevator groups (per interface panel)</td>
<td>4 groups</td>
</tr>
<tr>
<td>Stops (per group)</td>
<td>64 stops</td>
</tr>
<tr>
<td>Access controllers</td>
<td>255 units</td>
</tr>
<tr>
<td>Card readers (per group)</td>
<td>127 units</td>
</tr>
<tr>
<td>Security gates (per floor in a group)</td>
<td>8 gates</td>
</tr>
<tr>
<td>Floors with security gates (per group)</td>
<td>2 floors</td>
</tr>
</tbody>
</table>

- Interface panel (if provided)

<table>
<thead>
<tr>
<th>Size</th>
<th>300 × 300 × 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation</td>
<td>The panel is fixed on a wall. Secure the working space of 700mm (including the panel depth) on the front side and a clearance of 50mm on the right side of the panel. Also, secure the space for wiring.</td>
</tr>
</tbody>
</table>

Cable type and communication protocol

- Wiring from access controller to junction box in hoistway (Main signal transmission)
  - Case A: An interface panel is provided. (See Specifications below)
  - Case B: An interface panel is not provided. (See Specifications below)

- Wiring for other devices
  - For residence: No additional cable is required.
  - For office: Minimum two twisted-pair cables (to be shielded); (Coordination with power supply cable is required.)
  - For hotel: Two twisted-pair shielded cables for signals and four general conductors for power supply

Other solutions

Non-Service Temporary Release for Car Call (NSCR-C)

- Access controller (See Signal input.)
- Group control panel
- Junction box
- Elevator car

Secret Call Service (SCS-B) / MelEye (WP-W) / Non-Service to Specified Floors (NS-CB)

No special security device is required. For system configuration and specification of MelEye, please refer to the MelEye brochure.

Close collaboration with the security system supplier is required for system integration between elevator and building security. For more information, please consult our local agents.

Mitsubishi Electric

Visit our website at:
http://www.Mitsubishi Electric.com/elevator/

Eco Changes is the Mitsubishi Electric Group’s environmental statement, and expresses the Group’s stance on environmental management.

Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

Safety Tips: Be sure to read the instruction manual fully before using this product.