JCLM Non-contact IC card locks JCLM, JCLM2 series

Applications Urban hotels, resort hotels, dormitories, training centers, recreation facilities

Card specifications

\<For JCLM, JCLM2 non-contact IC card locks\>
■ **Guest cards**
Rewritable cards (plastic)

\<Hotel Ryumeikan Tokyo\>

■ **Management cards** (plastic) (master cards, maid cards, etc.)

* A gray finish is also available.

These card lock systems improve security, increase the efficiency of key management, and allow for system expansion.

Features of the card lock systems JCLM, JCLM2

■ Features of the JCLM and JCLM2 non-contact IC card systems include the following.

These systems use non-contact IC cards with improved operability and durability.

■ A valid period can be set for the cards in advance.

The card locks contain an IC with clock function that checks the card valid period (use start time to use end time). (The valid period can be set as needed up to 23:59 on December 31, 2079.)

■ Cards can be issued in advance.

Because the valid period can be set for the cards ahead of time, it is possible to issue cards in advance.

■ A variety of cards can be issued to meet a diverse range of usage styles.

● Issue of pay-by-the-hour cards (The valid period can be set in units of 1 minute.)
● Issue of additional guest cards (The same card that was issued for the guest arriving first can be issued for additional members of the party arriving later. The cards each have different serial numbers and a maximum of 99 cards can be issued.)
● Re-issue of lost cards for shared rooms (This is an optional function when there is an on-line connection with the host computer.)
● Multiple rooms can be selected. (Four patterns can be selected for the same card: one room, two rooms, three rooms, and consecutive room numbers starting from one room.)
● Various other cards can be issued for other applications.

* Be sure to inquire before ordering.

■ Rewritable cards that can be reused are also available.

■ Improve safety and security while increasing the efficiency of key management.

Non-contact IC cards can contain an immense amount of information, and safety is protected with an advanced encryption process. If a card is lost while it is still valid, after a new card is issued and used, the lost card is automatically invalidated and cannot be used. This provides safe and fast support for lost cards and for residents moving in and out.
It is also possible to check the card lock use history.

■ Dry-cell batteries are used as the power source. The batteries can be changed easily and the system is equipped with a low battery warning function.

Because dry-cell batteries (four AA alkaline dry-cell batteries) are used for the card lock power supply, no wiring work is required. Batteries can be changed easily by removing the escutcheon cover on the inside of the door. When the batteries are running low, an LED flashes alternately green/red to notify the user when the maid card or other management card is used.

■ Can be expanded with systems for common entrance management, energy savings, and various other purposes.

Can be expanded with after-hours entrance security management and room occupancy check systems, room energy-saving management systems, and elevator management systems.

Non-contact IC card locks

JCLM, JCLM2 series (Automatic locking type) (* JCLM2 is for in-swinging doors only. Special specifications are required for out-swinging doors.)

Applications **Urban hotels, resort hotels, dormitories, research facilities, recreation facilities**
(Precautions: There are different types for different directions (hands). Specify R type or L type according to the door direction (hand)).

● **V-JCLM-ZU 21B(R) (NW)**
(* Splash-proof specifications are also available.)
(Photo shows a V18 cylinder, ZU lever handle, R-hand type,
escutcheon on both sides.)

Appearance on inside with
escutcheon on one side
(NS)
(There is no escutcheon.)

● **V-JCLM2-ORIU 11S(R)**
(* Splash-proof specifications are also available.) (For in-swinging door)
(Photo shows a V18 cylinder, ORIU handle, R-hand type.)
(* JCLM2 has escutcheon on both sides.)

Non-contact IC card locks that can unlock the door just by holding the card over the reader

Features

■ The door can be unlocked easily by holding the card over the reader.
Because it is a non-contact IC card system, durability is higher and there is no concern about reduction due to wear, intrusion of foreign substances, or similar mechanical problems. There is also no risk of magnets damaging the data as there is with magnetic cards, allowing dependable use.

■ These systems use "Mifare" non-contact IC cards.
These non-contact IC card locks use "Mifare" cards that are widely used around the world.

■ The compact lock body (backset 70 mm) is ideal for renovations.

■ Locks automatically when the door is closed.
(Automatic locking type)

■ Equipped with an anti-panic function.
The door can be unlocked and opened from inside the room by turning the handle.

■ Unlock is indicated by a green LED lamp.

■ An easy-to-operate infrared system is used for data input and reading.

■ Equipped with a lockout function that protects customer privacy.
When the thumbturn on the inside of the door is turned and locked, the door is double-locked (locked out) and cannot be unlocked using the maid key.

■ In an emergency, the door can be unlocked using a key.

■ Equipped with a trigger bolt to prevent illegal unlocking.

■ An anti-friction type latch ensures that the door closes securely.

■ Dry-cell batteries are used as the power source. As a result, wiring work is not required.
Dry-cell batteries (four AA alkaline dry-cell batteries) are used for the power supply.

■ Includes an advance battery warning function.
The battery lifetime is around 1.5 years when the lock is used 15 times per day. The battery warning flashes an LED lamp when the maid card or other management card is used.

* Be sure to inquire before ordering.

■ Splash-proof specifications are available for JCLM.
(Option) (Not available for JCLM2.)
Splash-proof specifications allow reliable use even when rain contacts the outside of the door (corridor side).

■ No. 2 type thumbturns are available for JCLM.
(Escutcheon on both sides only) (option)
(JCLM2 is only available No.2 type thumbturn.)

Specifications (Door thickness: ## mm or more~less than ## mm)

■ Lock body

Model and escutcheon specifications	● JCLM (NW): Escutcheon on both sides ● JCLM (NS): Escutcheon on one side ● JCLM2: Escutcheon on both sides (for in-swinging doors only)
Backset	70 mm (lock case depth 105 mm)
Door thicknesses (Contact GOAL for more information.) (Note 1)	JCLM: 33~43 / 43~53 mm JCLM (splash-proof specifications): 31.5~41.5 / 41.5~51.5 mm JCLM2 (no splash-proof specifications): 36~43 / 43~53 mm
Gap (door and jamb)	6 mm or less
Cylinder [symbol] (Note 2)	GP [GP], V18 [V], GV [GV], 6 pins [P], 7 pins [Z]
Key systems	Various key systems available (MK, GMK, GGMK, CNK, etc.) (V18, GV: Optional key change system available)
Hand	R type, L type (Refer to table below.)
Lever handles	ZU, PRCU, other types (Refer to P.65, 66 for details.)
Thumbturn	JCLM: Standard type (with luminescent material), No. 2 type (no luminescent material) JCLM2: Standard type (no luminescent material)
Power supply	Four AA alkaline dry-cell batteries (Lifetime is around 1.5 years when used 15 times each day.)

Note 1: Splash-proof specifications are available for JCLM, however the door thickness specifications are different.
2: Production of new master key plans for 6-pin and 7-pin cylinders discontinued as of March 2017.

■ Card reader

Reading method	Non-contact IC cards (Mifare)
Working temperature range	0~40°C (Humidity 85% RH or less. Must be no freezing or condensation.)

■ Corresponding table (JCLM, JCLM2 and door)

Lock handing	Illustration	
	In-swinging door	Out-swinging door
R type	<Left-hinged, in-swinging door> Inside / Outside	<Right-hinged, out-swinging door> Inside / Outside
L type	<Right-hinged, in-swinging door> Inside / Outside	<Left-hinged, out-swinging door> Inside / Outside

* JCLM2 are for in-swinging doors only. Special specifications are required for out-swinging doors.

Card issuing systems and various systems using card locks

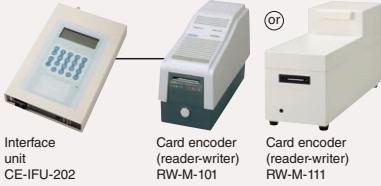## ● Card issuing systems

<Manual issuing type>

- Cards can be issued using just the interface unit. (Non-contact only)

It is not necessary to prepare a PC.

Interface unit CE-IFU-202

- When printing on the card is necessary, this unit is used in combination with a card encoder (reader-writer).
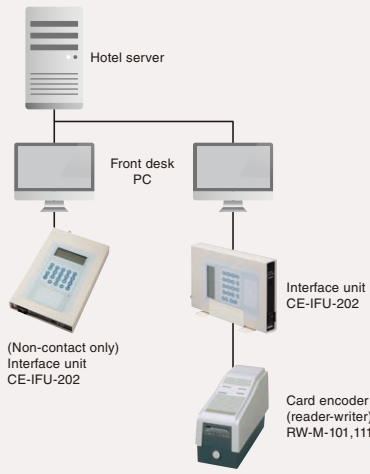
Interface unit CE-IFU-202

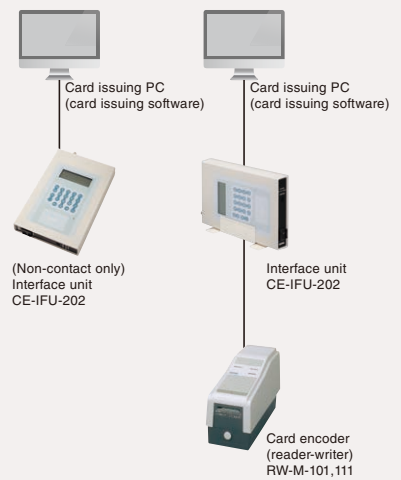Card encoder (reader-writer) RW-M-101

(or)

Card encoder (reader-writer) RW-M-111

<Online type>

Hotel server

Front desk PC

(Non-contact only) Interface unit CE-IFU-202

Interface unit CE-IFU-202

Card encoder (reader-writer) RW-M-101, 111

<Offline type>

Card issuing PC (card issuing software)

Card issuing PC (card issuing software)

(Non-contact only) Interface unit CE-IFU-202

Interface unit CE-IFU-202

Card encoder (reader-writer) RW-M-101, 111

● Various systems using non-contact IC card locks

■ Basic system

<Check-in>   Maid or manager   <Guest room>   <Check-out>

Front

Card lock (JCLM / JCLM2)

Front

A card which reaches the end of its valid period is automatically invalidated.

■ After-hours entrance and common entrance management

<Common entrance>   CPEVS φ0.9-2pr (Maximum cable length is 50 m.)

<Room>

φ0.9-3pr   φ0.9-5pr   φ0.9-5pr   100 V AC (with ground)

Electric lock or automatic door

Reverse master card reader (CLS-JCLM-301-CR)

Operation panel RSP-410UH

Electric lock controller RCB-730

Card lock (JCLM / JCLM2)
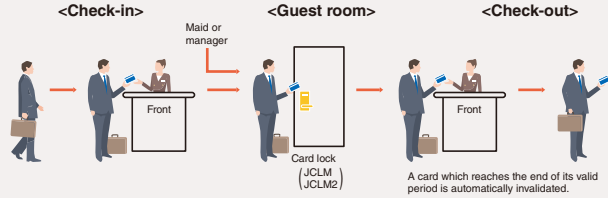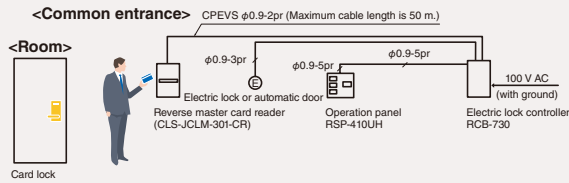
■ Elevator control system

Automatic control can be performed to automatically stop the elevators at a designated floor.

1 2 3 4 • • • • • •
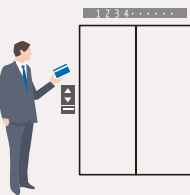
* Other systems such as parking area gate management systems can also be constructed.

■ Energy-saving and room occupancy check system

<Room or door>

- When CSW-503 card switch is used (* Power relay box is not required.)

Card lock (JCLM / JCLM2)

Card switch CSW-503

100 V AC   Lighting (not provided)   Air conditioner (not provided)   Electric outlet (not provided)

<Front desk>

Front desk indicators, room occupancy indicator panel (not provided)
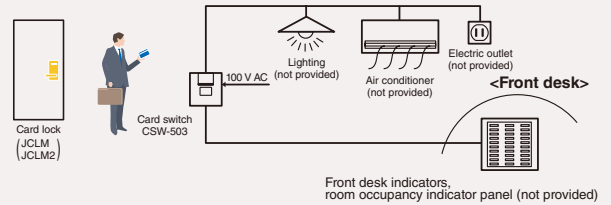
- When CSW-502 card switch is used

Distribution panel (not provided)   Power relay box PRL-710

100 V AC

Card lock (JCLM / JCLM2)

Card switch CSW-502

Lighting (not provided)   Air conditioner (not provided)   Electric outlet (not provided)

<Front desk>

Front desk indicators, room occupancy indicator panel (not provided)
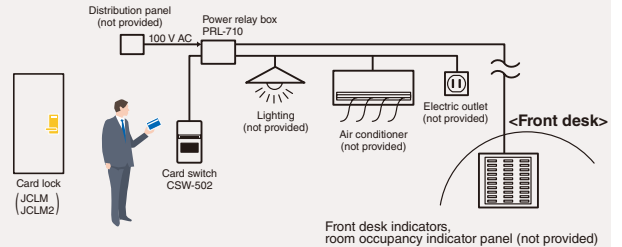
■ Component devices

- **Data input device**
DAT-602
(compatible with **JCLM, JCLM2**)

(An easy-to-operate infrared system for data input and reading)

- **Card switch**
CSW-503

CSW-502

(Power relay box is not required.)   (Power relay box is required.)

(For energy-saving and room occupancy check systems)

- **Reverse master card readers**
CLS-JCLM-301-CR
(type compatible with **JCLM, JCLM2**)

(For after-hours entrance and common entrance management)

JCLM
Non-contact IC card locks
List of JCLM handles and escutcheons

■ **JCLM**   Note: NW has escutcheons on both sides, while NS has an escutcheon on only one side. When ordering, be sure to specify JCLM (NW) or JCLM (NS).
The appearance of the outside escutcheon is the same with both models.

• JCLM-ZU 21B ⚠
(Lever/escutcheon: Dull brass)

• JCLM-PRCU 21B W8
(Lever: Reinforced wood (Mizume cherry) ⚠
Escutcheon: Dull brass)

• JCLM-RNT 21B W13
(Lever: Reinforced wood (birch) ⚠
Escutcheon: Dull brass)

• JCLM-NU 11S
(Lever/escutcheon: Dull stainless steel)
* A bright (12S) finish is also available.

• JCLM-KU 11S
(Lever/escutcheon: Dull stainless steel)
* A bright (12S) finish is also available.

• JCLM-ZU 22B ⚠
(Lever/escutcheon: Bright brass)

• JCLM-PRCU 22B W8
(Lever: Reinforced wood (Mizume cherry) ⚠
Escutcheon: Bright brass)

• JCLM-RNT 22B W13
(Lever: Reinforced wood (birch) ⚠
Escutcheon: Bright brass)

• JCLM-TU 11S
(Lever/escutcheon: Dull stainless steel)
* A bright (12S) finish is also available.

• JCLM-DU 11S
(Lever/escutcheon: Dull stainless steel)
* A bright (12S) finish is also available.

• JCLM-ZU 11S
(Lever/escutcheon: Dull stainless steel)

• JCLM-PRCU 11B W8
(Lever: Reinforced wood (Mizume cherry) ⚠
Escutcheon: Dull stainless steel)

• JCLM-RNT 11B W13
(Lever: Reinforced wood (birch) ⚠
Escutcheon: Dull stainless steel)

• JCLM-JUPU 11S
(Lever/escutcheon: Dull stainless steel)
* A bright (12S) finish is also available.

• JCLM-ORIU 11S
(Lever/escutcheon: Dull stainless steel)
* A bright (12S) finish is also available.

• JCLM-ZU 12S
(Lever/escutcheon: Bright stainless steel)

• JCLM-PRCU 12B W8
(Lever: Reinforced wood (Mizume cherry) ⚠
Escutcheon: Bright stainless steel)

• JCLM-RNT 12B W13
(Lever: Reinforced wood (birch) ⚠
Escutcheon: Bright stainless steel)

• JCLM-LWINU(R)11S
(Lever/escutcheon: Dull stainless steel)
* A bright (12S) finish is also available.

• JCLM-COMU(R)11S
(Lever/escutcheon: Dull stainless steel)
* A bright (12S) finish is also available.

⚠ Precautions: Avoid using reinforced wood levers outdoors. Also, be careful not to scratch brass levers or escutcheons. Sufficient daily maintenance is necessary.
(For the maintenance methods, refer to P.3.)

List of handles and escutcheons for JCLM2 series non-contact IC card locks

■ **JCLM2** (* Escutcheons on both the outside and inside. A wide variety of handle designs and escutcheon finishes are available.)

• **JCLM2-ORIU 11S(668)**
(Lever: Dull stainless steel
Escutcheon: Light gray)

• **JCLM2-ORIU 12S(864)**
(Lever: Bright stainless steel
Escutcheon: Off-white)

• **JCLM2-ORIU 11S(369)**
(Lever: Dull stainless steel
Escutcheon: Silver coating)

• **JCLM2-ORIU 12S(8800)**
(Lever: Bright stainless steel
Escutcheon: Black coating)

• **JCLM2-ZU 21B(864)** ⚠
(Lever: Dull brass
Escutcheon: Off-white)

• **JCLM2-ZU 22B(864)** ⚠
(Lever: Bright brass
Escutcheon: Off-white)

• **JCLM2-ZU 21B(269)** ⚠
(Lever: Dull brass
Escutcheon: Gold coating)

• **JCLM2-ZU 21B(8800)** ⚠
(Lever: Dull brass
Escutcheon: Black coating)

JCLM

Non-contact IC card locks JCLM
(automatic locking type)

Escutcheon specifications	Compatible cylinders	Hand	Backset	Door thickness (Contact GOAL for more information.)	Gap (door and jamb)
NS type (escutcheon on one side)	GP [GP] 6 pins [P] V18 [V] 7 pins [Z] GV [GV]	R L	70 mm	33～43 / 43～53 mm (31.5～41.5 / 41.5～51.5 mm for splash-proof type)	6 mm or less
NW type (escutcheon on both sides)					

Door thickness: ## mm or more～less than ## mm

■ Dimensions/Notch (Unit: mm)

● V-JCLM-ZU(R) (NW) (* If "NW" is indicated, there is an escutcheon on both sides.) (* Splash-proof specifications are also available.)
<Illustration shows escutcheon on both sides, V18 cylinder, ZU lever handle, R type (for left-hinged in-swinging door), backset 70 mm. >

Note 1: When there is an escutcheon on both sides, the No. 2 type thumbturn is also available.
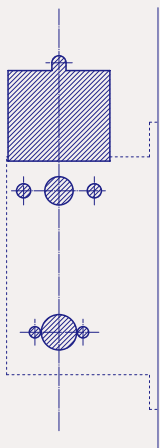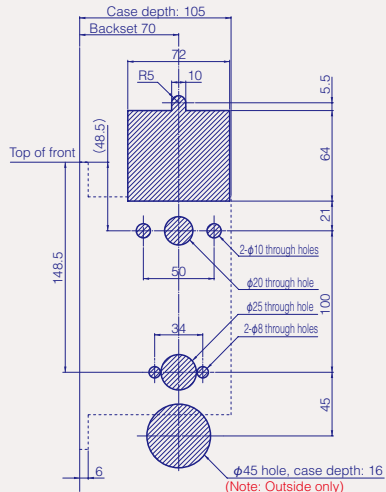
Standard type thumbturn (with luminescent material) (Note 1)

2-M4 countersink (Note 2)

Top of front

Escutcheon mounting screw

2-M4 countersink (for main unit mounting screw)

Case depth: 105
Backset 70

LED lamp

Card detector

Emergency cylinder

Door thickness
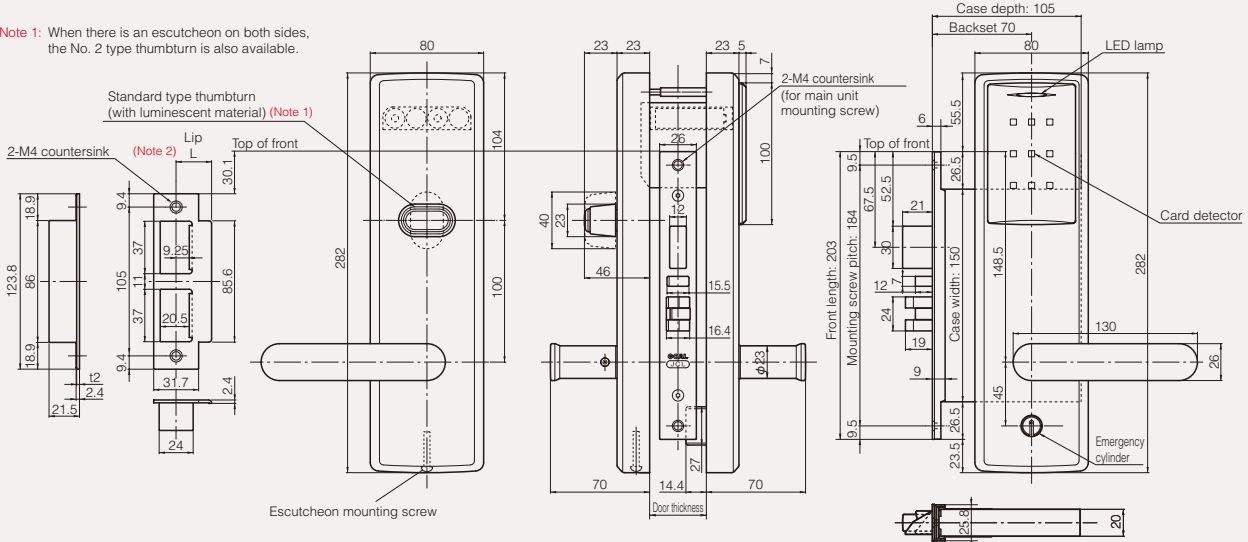
● V-JCLM-ZU(R) (NS) (* If "NS" is indicated, there is an escutcheon on one side.) (* Splash-proof specifications are also available.)
<Illustration shows escutcheon on one side, V18 cylinder, ZU lever handle, R type (for left-hinged in-swinging door), backset 70 mm. >

Thumbturn cover

Cover mounting screw (countersunk screw with hexagonal hole)

2-M4 countersink (Note 2)

Top of front

2-M4 countersink (for main unit mounting screw)

Case depth: 105
Backset 70

LED lamp

Card detector

Emergency cylinder

Door thickness
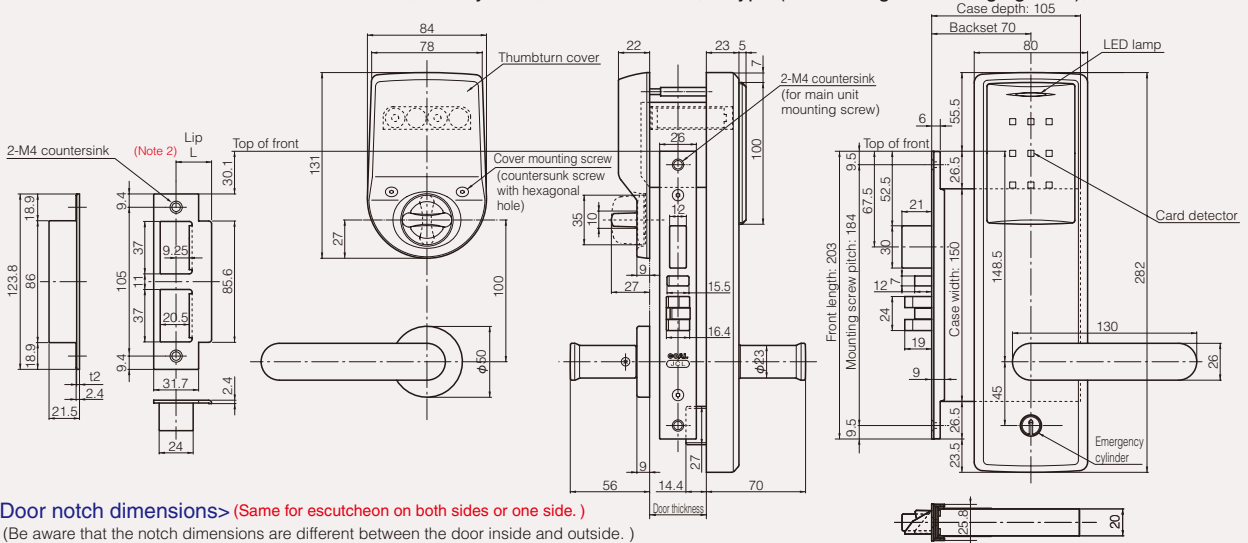
<Door notch dimensions> (Same for escutcheon on both sides or one side.)
(Be aware that the notch dimensions are different between the door inside and outside.)

<Inside>   <Outside>

Case depth: 105
Backset 70

R5

Top of front

2-φ10 through holes
φ20 through hole
φ25 through hole
2-φ8 through holes

φ45 hole, case depth: 16
(Note: Outside only)

Note: For NW (escutcheon on both sides), the door outside notch may be cut all the way through.

(Note 2)
■ Relationship between strike plate lip (L) dimension and door thickness

For single leaf door ⚠		
Door thickness (minimum～less than) mm	Classification	L dimension (mm)
33～38	23L	23
38～43	25L	25
43～48	28L	28
48～53	30L	30

For double leaf door		
Door thickness (minimum～less than) mm	Classification	L dimension (mm)
33～37	18L	18
37～42	20L	20
42～47	23L	23
47～51	25L	25

⚠ Precautions when selecting a strike plate:
The strike plate shown in the table above is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount. Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.

JCLM2

Non-contact IC card locks
JCLM2 (automatic locking type)

Compatible cylinders		Hand	Backset	Door thickness (Contact GOAL for more information.)	Gap (door and jamb)
GP [GP]	6 pins [P]	R	70 mm	36~43 / 43~53 mm	6 mm or less
V18 [V]	7 pins [Z]	L			
GV [GV]					

Door thickness: ## mm or more~less than ## mm

■Dimensions/Notch (Unit: mm)

● V-JCLM2-ORIU(R) (* Only escutcheon on both sides for JCLM2.) (* Splash-proof specifications are not available.)
<Illustration shows V18 cylinder, ORIU lever handle, R type (for left-hinged in-swinging door), backset 70 mm.>

<Door notch dimensions>
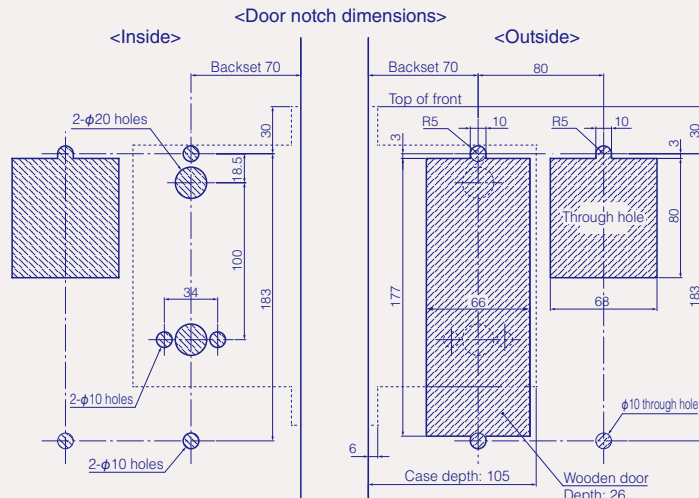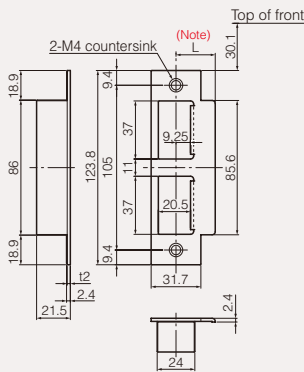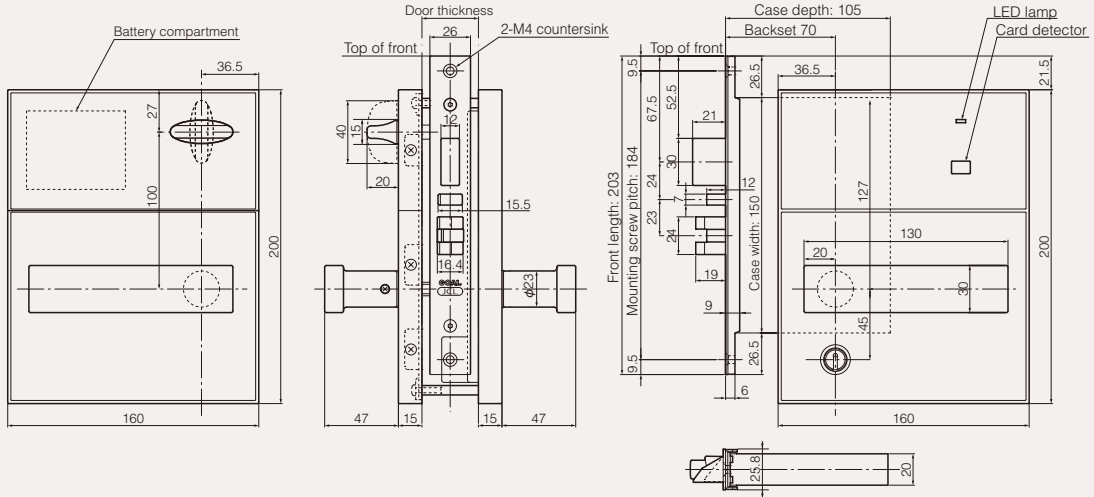
(Note)
■Relationship between strike plate lip (L) dimension and door thickness

For single leaf door ⚠		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
36~38	23L	23
38~43	25L	25
43~48	28L	28
48~53	30L	30

| For double leaf door		
Door thickness (minimum~less than) mm	Classification	L dimension (mm)
36~37	18L	18
37~42	20L	20
42~47	23L	23
47~51	25L	25

⚠ Precautions when selecting a strike plate:
The strike plate shown in the table above is set as standard according to the door thickness, however in the case of a single leaf door and depending on the conditions of the door and frame, the strike plate may protrude by a large amount. Check the conditions of the door and frame, and select a strike plate with the optimal lip (L) dimension from the table so that the amount of strike plate protrusion is not too large.

Optional devices for card locks JCLM, JCLM2 (¹/₂)
Card encoders, data input devices, card switches
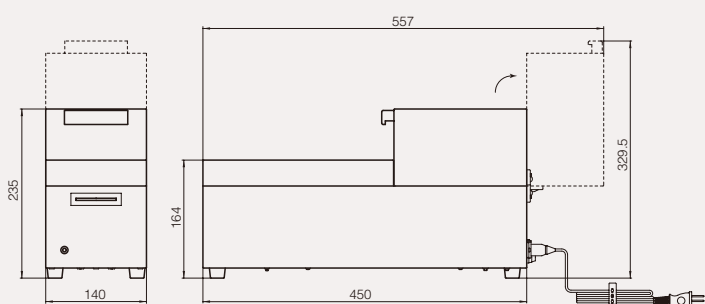
■ **Dimensions/Notch** (Unit: mm)

Card encoder
● **RW-M-101** (for JCLM, JCLM2)
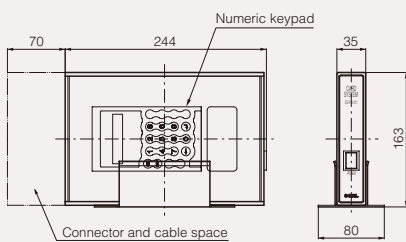(Leuco rewritable MIFARE card reader-writer)
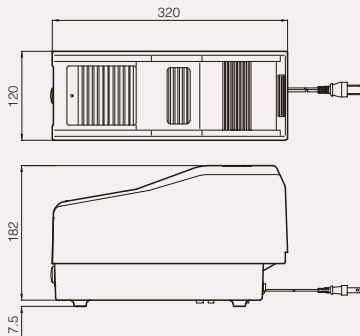
Card encoder
● **RW-M-111** (for JCLM, JCLM2)
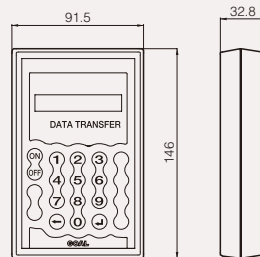(Leuco rewritable MIFARE card reader-writer with dispenser)

Interface unit
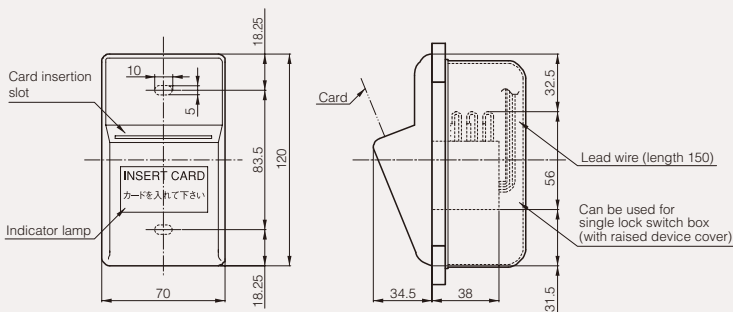● **CE-IFU-202** (for JCLM, JCLM2)
(card encoder)

Numeric keypad

Connector and cable space

Data input device
● **DAT-602** (for JCLM, JCLM2)

DATA TRANSFER

Card switch
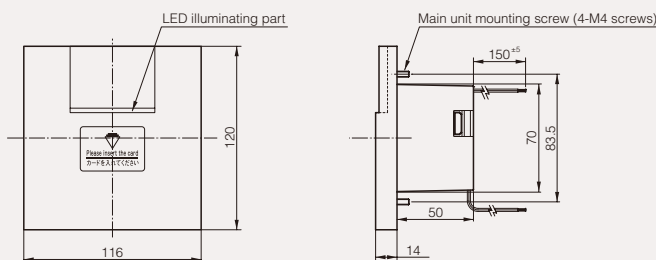● **CSW-502** (for JCLM, JCLM2) (* PRL-710 power relay box is required.)

Card insertion slot
INSERT CARD
カードを入れて下さい
Indicator lamp
Card
Lead wire (length 150)
Can be used for single lock switch box (with raised device cover).

CSW-502 circuit diagram
(Illustration shows the conditions when the card is removed.)

Lamp (24 V DC)
Resistor
Card removed
Card inserted
Microswitch
Red
Blue
Lead wire
Brown
Yellow
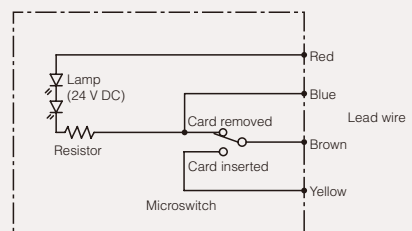
When occupied: Brown-yellow short circuit
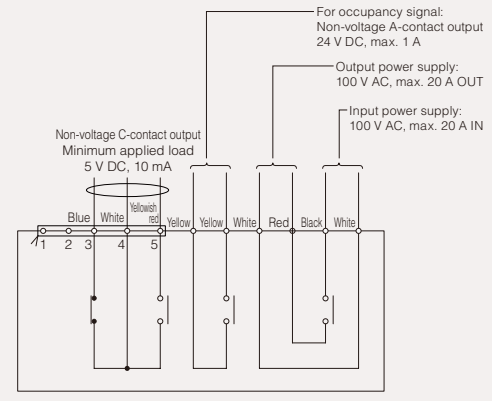When not occupied: Brown-blue short circuit

Card switch
● **CSW-503** (for JCLM, JCLM2) (* Power relay box is not required.)
(* A non-voltage C-contact wiring connector (option) is also available.)

LED illuminating part
Please insert the card
カードを入れて下さい
Main unit mounting screw (4-M4 screws)

CSW-503 circuit diagram
(Illustration shows the conditions when the card is removed.)

For occupancy signal:
Non-voltage A-contact output 24 V DC, max. 1 A
Output power supply:
100 V AC, max. 20 A OUT
Input power supply:
100 V AC, max. 20 A IN

Non-voltage C-contact output
Minimum applied load 5 V DC, 10 mA

Blue   White   Yellowish red   Yellow   Yellow   White   Red   Black   White
1   2   3   4   5
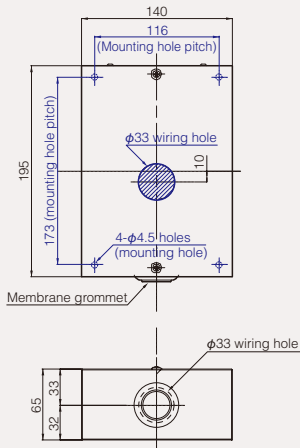
JCLM JCLM2 Optional devices for card locks JCLM, JCLM2 (2/2)
Power relay boxes, reverse master card readers, controllers, others

■**Dimensions/Notch** (Unit: mm)

Power relay box
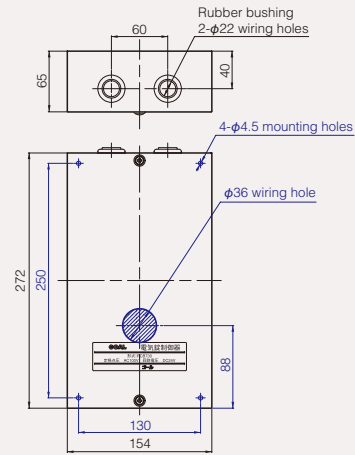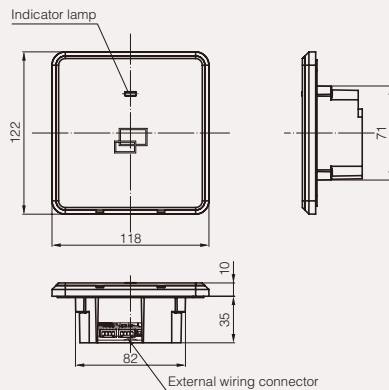● **PRL-710**
(* Used with a CSW-502 card switch. Not required for CSW-503.)

Controller
● **RCB-730** (* For electric lock control)

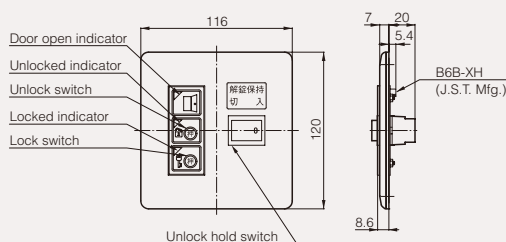Reverse master card reader (* For control of automatic door or electric lock)
● **CLS-JCLM-301-CR** (for JCLM, JCLM2)

Operation panel (* For electric lock operation)
● **RSP-410UH** (with unlock hold function) (for CLS-JCLM-301-CR)
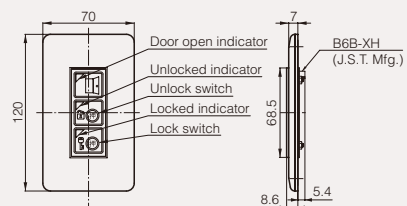(* A wiring connector is provided with the product.)

Operation panel (* For electric lock operation)
● **RSP-410U** (for CLS-JCLM-301-CR)
(* A wiring connector is provided with the product.)