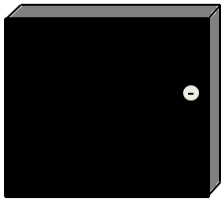
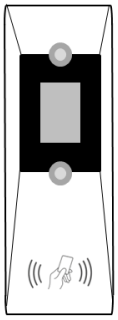
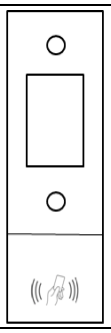
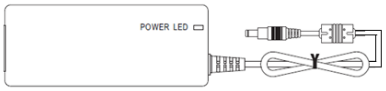
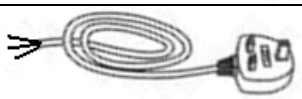
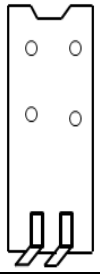
FaceSentry
Appliance Installation Manual

For more information and updated manual, please visit our web site at

http://www.iwt.com.hk

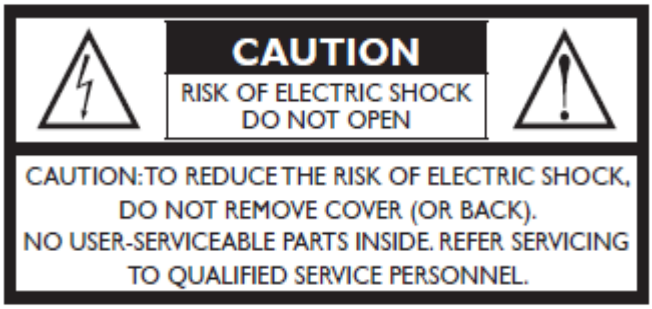
Content List

No.	Items	Quantity	Drawings
1	Controller	1	
2	Panel	1	 3 Series  5 Series
3	Transformer (Panel Use)	1	
4	Power connection Cable - a (Panel)	1	
5	Power Connection Cable - b (Controller)	1	
6	Data Cable	1	
7	Mifare Card	10	
8	Key	2	

9	Base for Flush mount (Optional)	1	
10	Base for Wall mount (Optional)	1	
11	Screw (M3x30)	2	
12	Strain Relief Bushing	1	

Important safety instructions

WARNING
TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE



- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.
- This apparatus shall always be connected to an AC outlet with a protective grounding connection.
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket; therefore the mains plug shall be readily operable.

Explanation of Graphical Symbols

	The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the products enclosure that may be of a sufficient magnitude to constitute a risk of electrical shock to persons.
	The exclamation mark within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

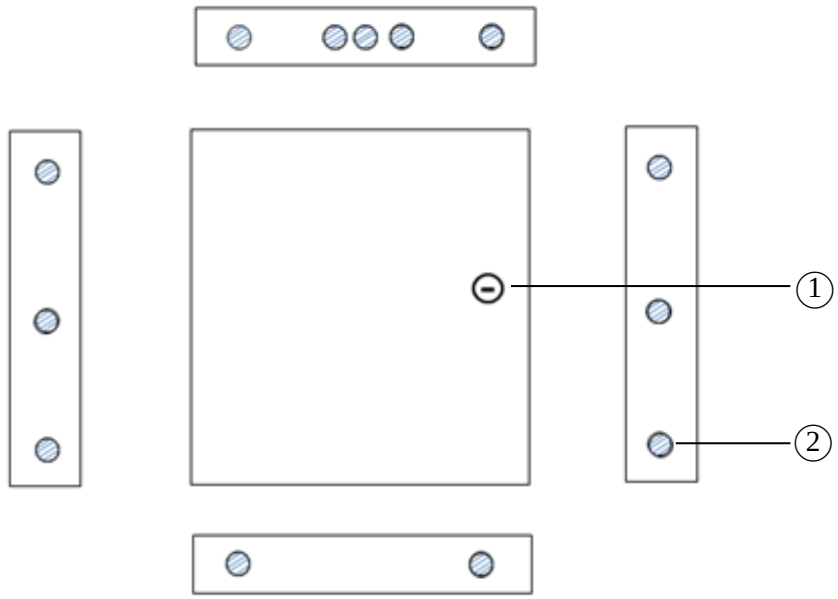
1. Read Instructions	All the Safety and Operating Instructions should be read before the appliance is operated.
2. Retain Instructions	The Safety and Operating Instructions should be retained for future reference.
3. Heed Warnings	All warnings on the appliance and in the Operating Instructions should be adhered to.
4. Follow Instructions	All Operating and Use Instructions should be followed. Only use attachments/accessories specified by the manufacturer.
5. Important	Do not defeat the safety purpose of the polarized or grounding type plug. The third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. Refer all servicing to a qualified service personnel. Servicing is required for any damaged parts such as power-supply cord or plug.
6. Water and Moisture	The appliance should not be used in or near water
7. Ventilation	The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, or similar surface that may block any ventilation openings.
8. Heat	The appliance should be situated away from heat sources such as radiators, heat registers, stoves or other appliances (including amplifiers) that produce heat.
9. Power Sources	The appliance should be connected to a power supply only of the type described in the Operating Instructions or as marked on the appliance and it shall remain readily operable. Mains plug is used as the disconnect device. To be completely disconnected from the power input, the mains plug of the appliance must be disconnected from the mains completely.
10. Power-cord Protection	Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles and the point where they exit from the appliance. The main plug should not be obstructed OR should be easily accessed during intended use.
11. Attachments and Accessories	Use only attachments/accessories specified by the manufacturer.
12. Handling	The appliance should be transported with the cart, stand, tripod, bracket, or table specified by manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/appliance combination to avoid injury from tip-over.
13. Non-use Periods	Unplug this appliance during lightning storms or when unused for long periods of time.
14. Damage Requiring Service	The appliance should be serviced by qualified service personnel when: **a.** The power supply cord or the plug has been damaged; or **b.** Objects have fallen or liquid has been spilled into the appliance; or **c.** The appliance has been exposed to rain; or **d.** The appliance does not appear to operate normally or exhibits a marked change in performance; or **e.** The appliance has been dropped or the enclosure damaged.
15. Servicing	The user shall not attempt to service the appliance beyond that described in the Operating Instructions. All other servicing should be referred to qualified service personnel.

Views

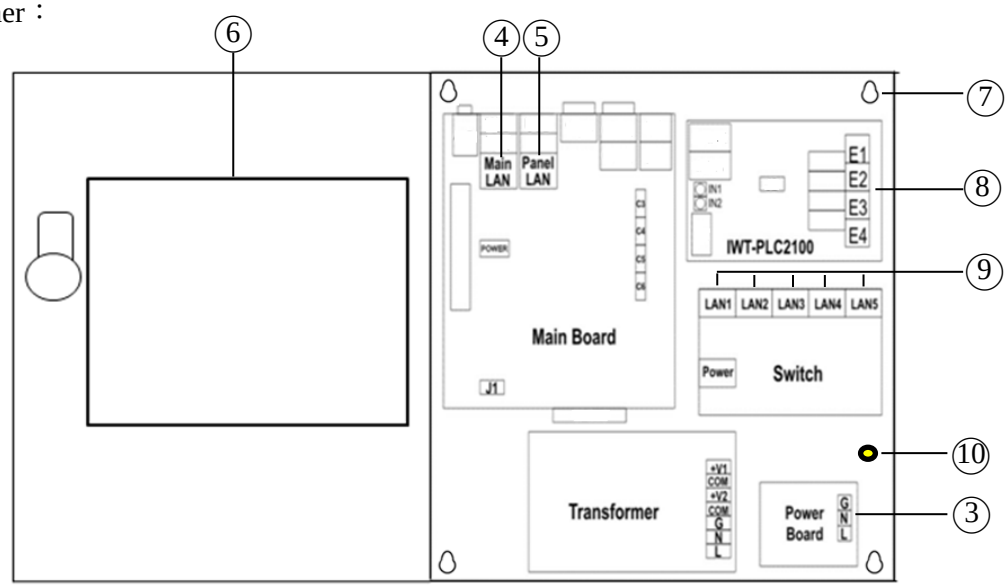
Controller

Outer：

Top, Front & Bottom View



Inner：



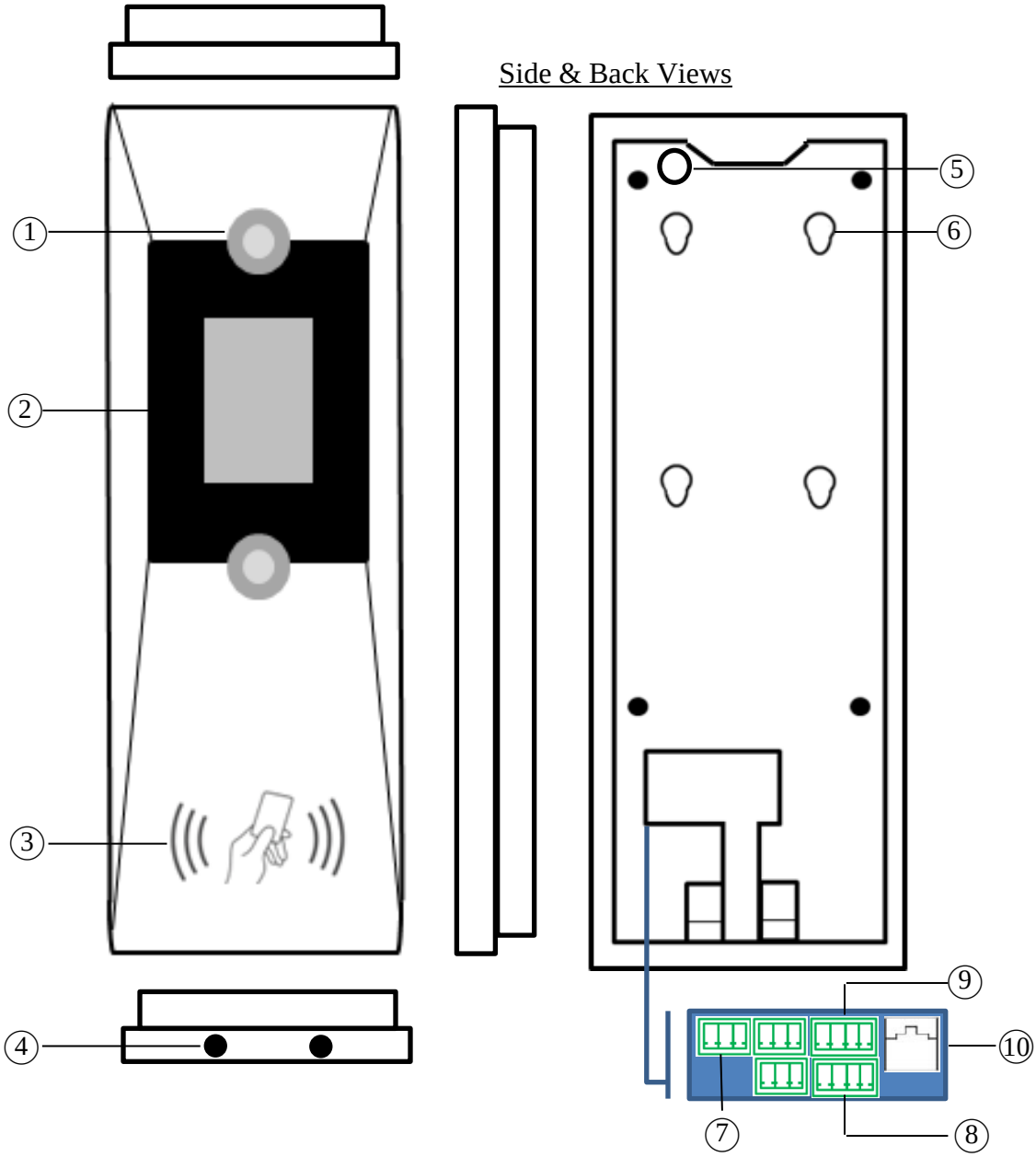
1	Lock	2	Holes for wiring	3	Power Cable Terminals	4	Network Terminals
5	Data cable Terminals	6	Controller Composition	7	Screw Hole (4)	8	Relay Terminals
9	Router (For Dual Panel Controller only)	10	Ground Connector				

Views

Panel

Top, Front & Bottom Views

Side & Back Views

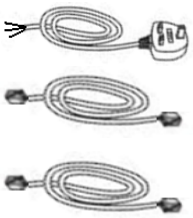


1	Camera (2)	2	Monitor	3	Card Reader	4	Screw hole
5	Anti-theft alarm	6	Holes for mounting	7	Power Plug Terminals	8	Weigand Input
9	Weigand Output	10	Data Cable Terminals	11		12	

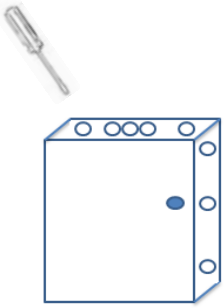
Controller Installation Procedure

(1) Single Panel

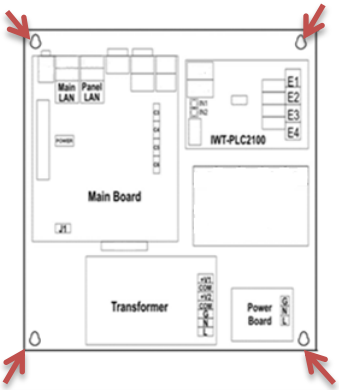
1. Prepare the "Data Cable", RJ45 network cable (Customer provide) and Power Connection Cable - b.



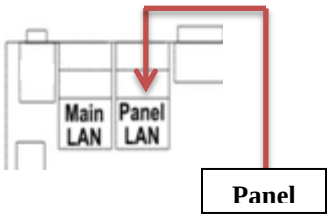
2. Holed the controller according to situation needs.



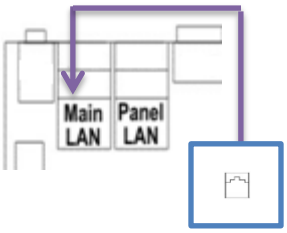
3. Secure the controller by screws.



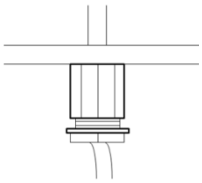
4. Connect Data Cable from panel side (Data terminals) to Controller side (Panel LAN) and passes through the hole which opened on step 2.



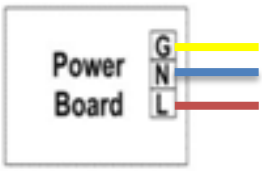
5. Connect RJ45 network cable from controller network terminals (Main LAN side) to network socket.



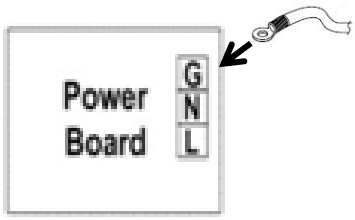
6. **Secure the "Power Connection cable - b "by "Strain Relief Bushing".**



7. Connect "Power Connection cable - b "to Power Board.



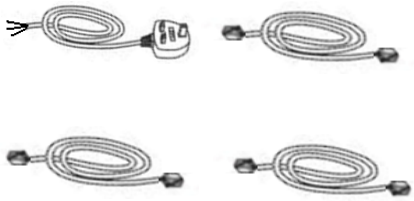
8. Connect ground cable from power board (G) to Ground Connector.



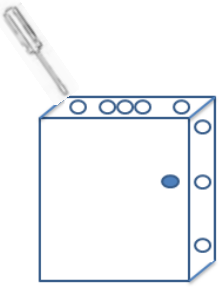
Controller Installation Procedure

(2) Dual Panel

1. Prepare the "Data Cable" x 2, RJ45 network cable (Customer provide) and "Power Connection Cable – b".

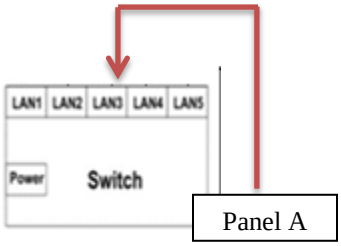


2. Holed the controller according to situation needs.

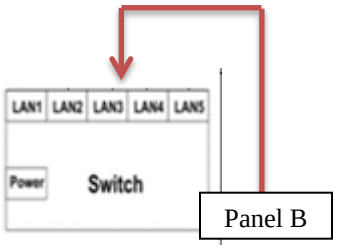


3. Secure the controller by screws.

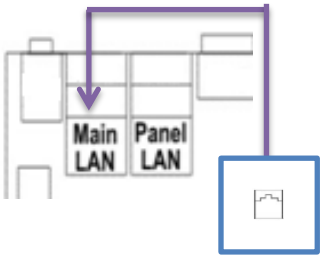
4. Connect Data Cable from panel side (Data terminals) to Controller side (Router terminals either 2-5) and passes through the hole which opened on step 2.



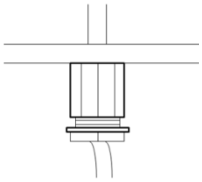
5. Repeat Step 4 on Panel B.



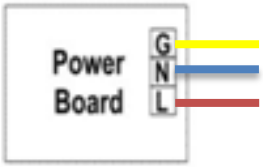
6. Connect RJ45 network cable from controller network terminals (Main LAN side) to network socket.



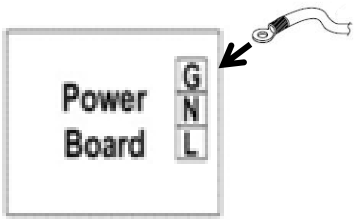
7. Secure the "Power Connection cable - b "by ""Strain Relief Bushing"



8. Connect "Power Connection cable - b "to Power Board.



9. Connect ground cable from Power Board (G) to Ground Connector.



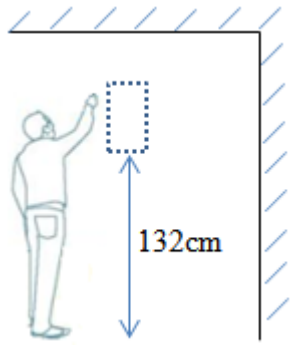
Panel Installation Procedure

FaceSentry mounts on wall by: (A) Flush mounting, (B) Wall mounting

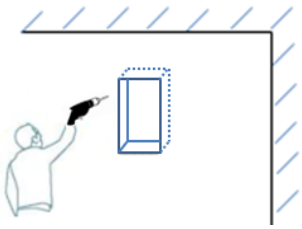
(A) Flush mounting (Please install with "Base for flush mounting")

1. Reserve a suitable position for flush mounting, the panel mounting suggests 132 cm apart from ground.

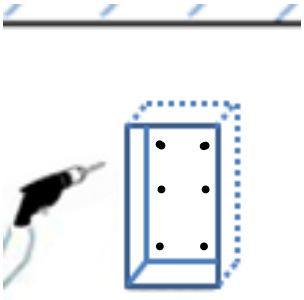
Wall



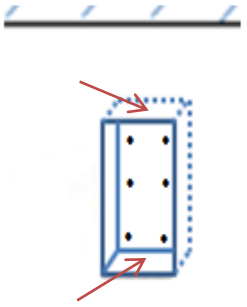
2. Dig enough space to fit the Base (practical dimension on Page14)



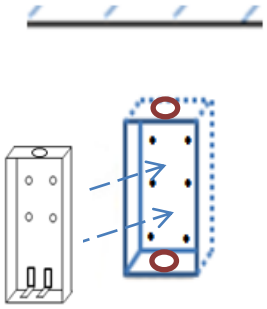
3. Drill the holes for base mounting.



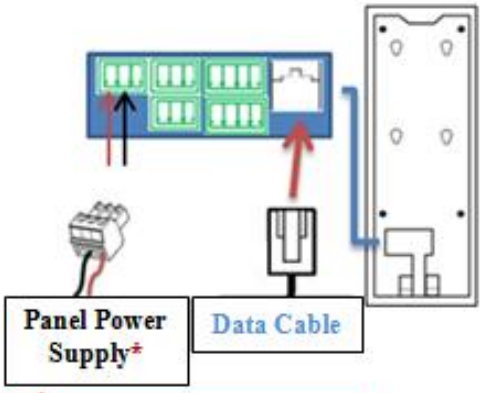
4. Reserve a hole on base for wiring.



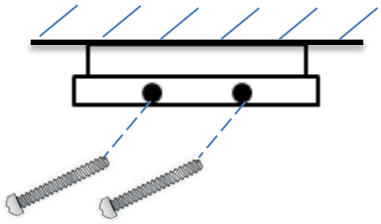
5. Mount the base on wall by screw.



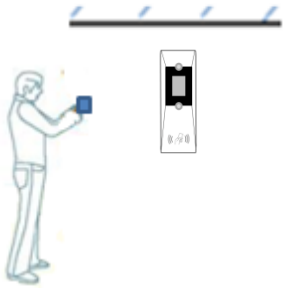
6. Connect Data Cable and Panel power supply cable to panel.

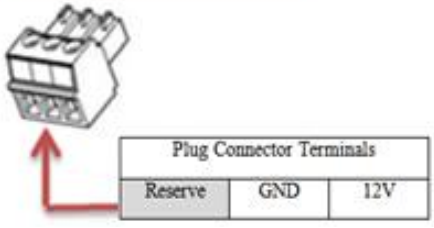


7. Screw the panel on the wall



8. Finish Panel installation.

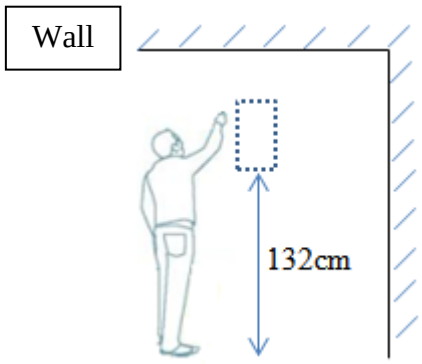




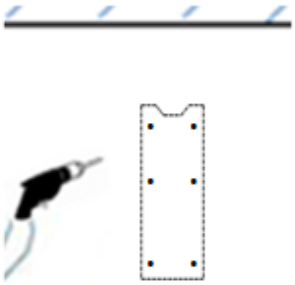
Panel Installation Procedure

(B) Wall mounting (Please install with "Base for Wall mounting")

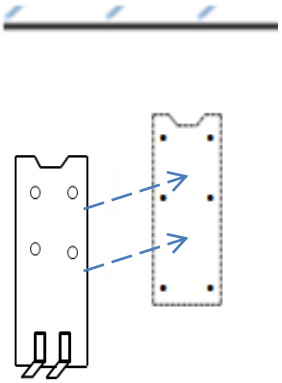
1. Reserve a suitable position for flush mounting, the panel mounting suggests 132 cm apart from ground.



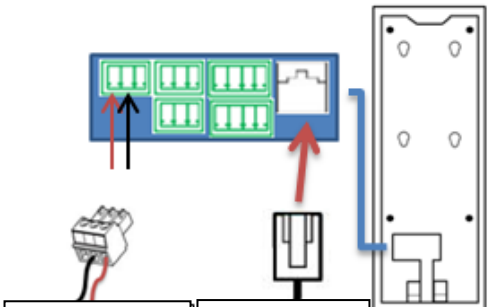
2. Drill the holes for base mounting.



3. Secure the base on the wall by screw.



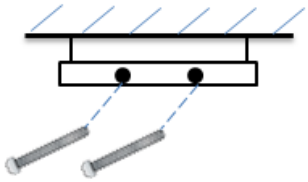
4. Connect Data Cable and Panel power supply cable to panel.



* Power Supply Plug

Plug Connector Terminals		
Reserve	GND	12V

5. Screw the panel on the wall



6. Finish Panel installation.

Recommended Operating Conditions

Controller

Parameter	Conditions
Input Voltage	100-120V, AC 2.8A 220-240V, AC 1.6A
Frequency Range	50/60Hz
Overload	110 ~ 150% rated output power
	Protection type : Hiccup mode, recovers automatically after fault condition is removed
Over Voltage	CH1: 5.75 ~ 6.75V
	Protection type : Hiccup mode, recovers automatically after fault condition is removed
Operation Temperature	0 ~ 60℃ (32 ~ 140℉)
Storage Temperature	-40 ~ 75℃ (-40 ~ 167℉)
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing

Panel

Parameter	Min	Typical	Max	Unit	Remark
DC Main Power Supply Voltage	11.5	12	12.4	V	(*1)
DC Main Power Supply Current(*2)	0.2	2	3	A	
DC Main Power Supply Current(*3)	0.2	0.5	1	A	
RTC Backup Battery Voltage	1.8	3.2	3.3	V	
Storage Temperature	-20	/	60	℃	
Operation Temperature	-10	25	50	℃	

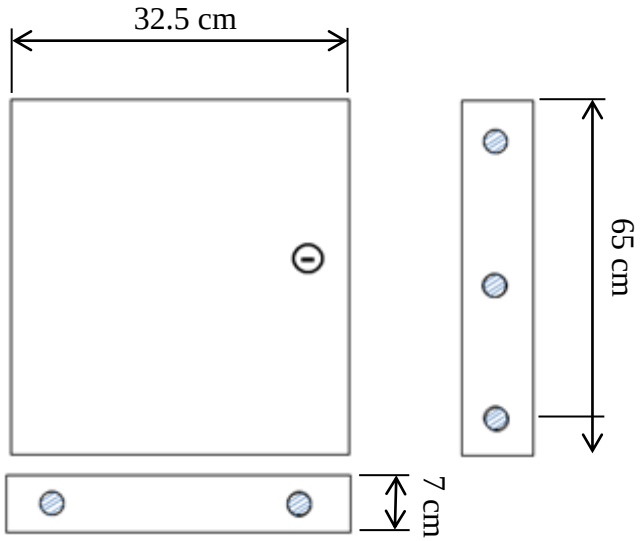
(*1) Onboard over-voltage protection scheme protects fill light, Wiegand power output against high-voltage faults. The lockout threshold varies from 12.4V to 12.8V as the temperature varies.
(*2) In situation that with fill light and Wiegand card reader.
(*3) In situation that without fill light and Wiegand card reader.

Malfunction / Maintenance

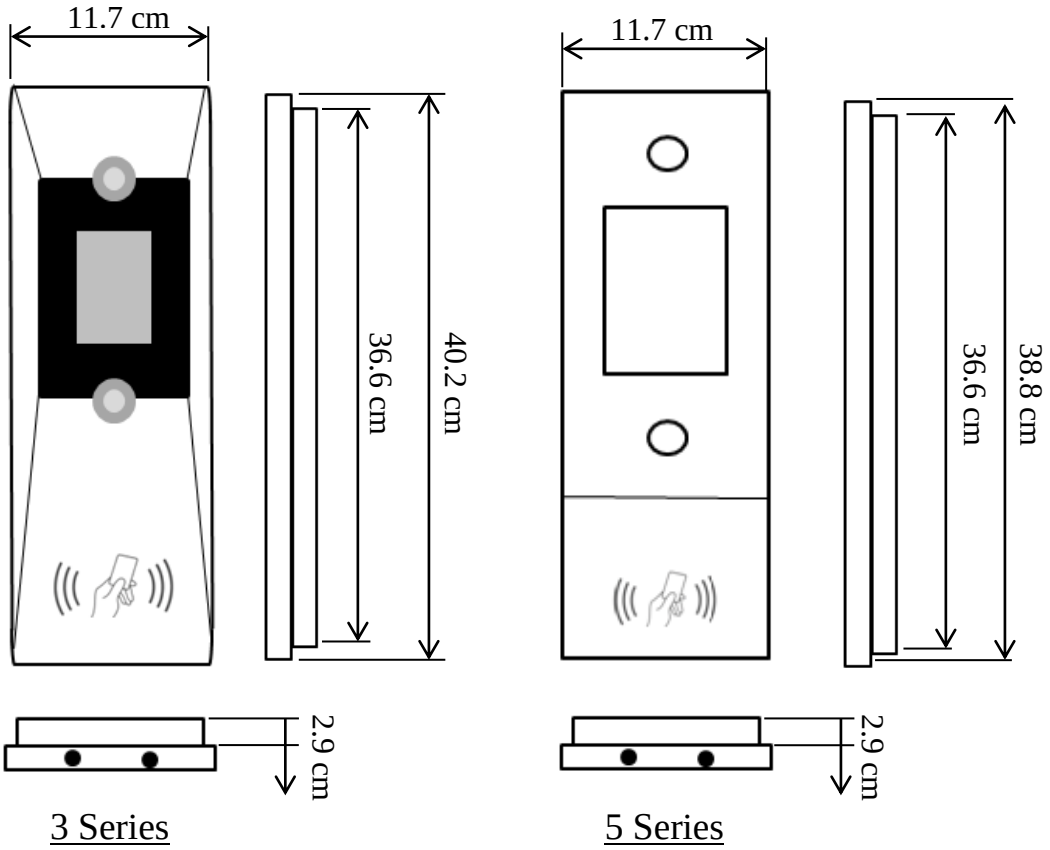
Problems	Checklists	Solution
No operation after power on (Panel or Controller)	- The power plug is properly inserted to main supply? - Power plug in the correct terminals?	- Fully put the power plug to the terminals
	- Checked above but no operation and no power light.	- Send back to your supplier for repair
No time message display after start-up	- The Data cable is properly inserted on controller and panel? - The controller already start-up?	- Unplug and plug the power supply from panel.
No operation on camera	- Swipe user card, any photo captured on access log?	- Unplug and plug the power supply from panel.

Dimensions A

Controller:

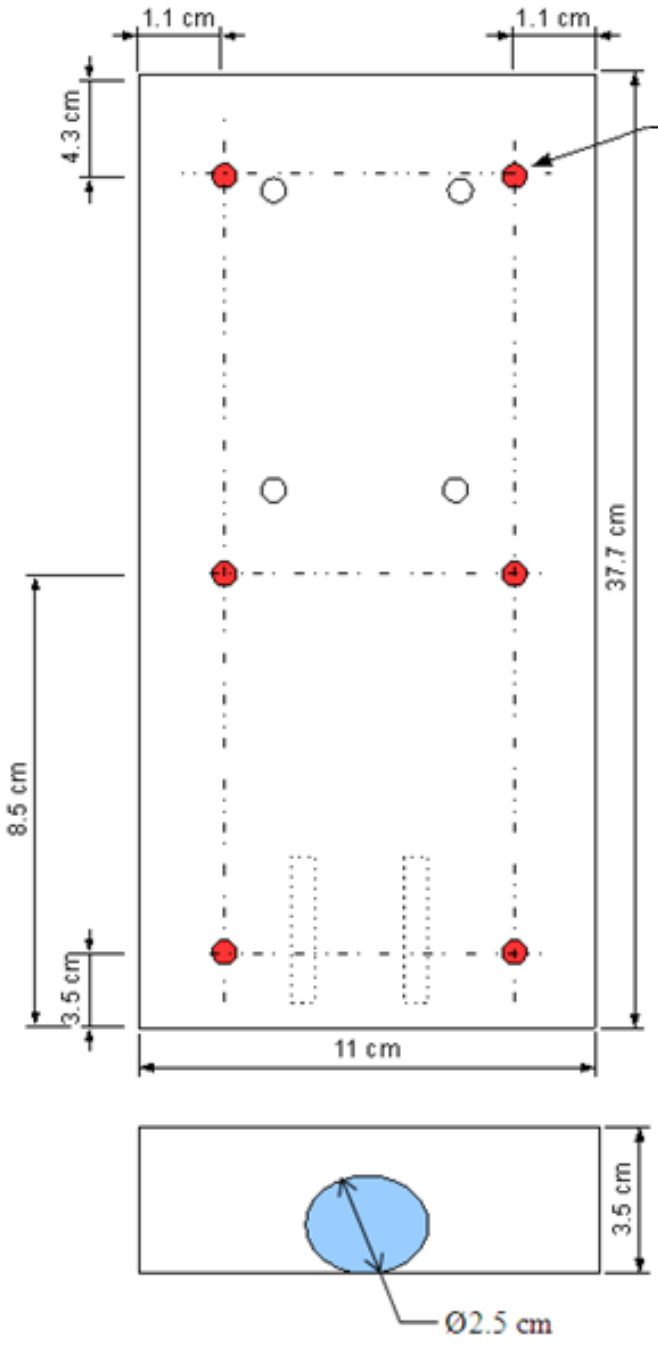


Panel:

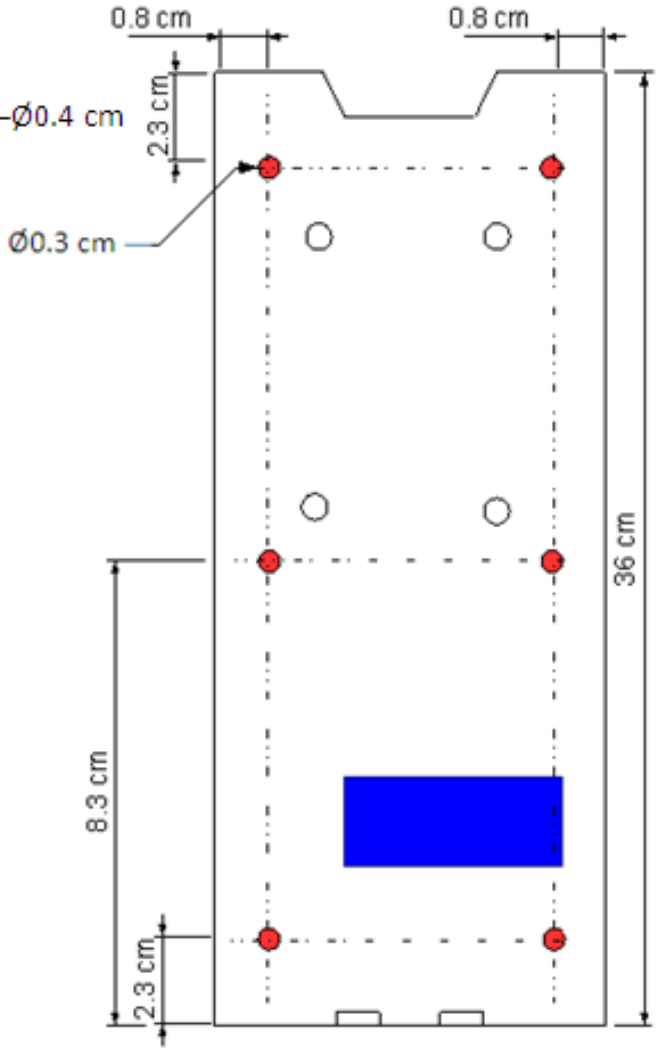


Dimensions B

Base for Flush Mount



Base for Wall mount



FCC Warning:

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- -- Reorient or relocate the receiving antenna.
- -- Increase the separation between the equipment and receiver.
- -- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -- Consult the dealer or an experienced radio/TV technician for help.