



# ROBORN

Reimagine the Future

Based in Hong Kong  
Reach out to the World and...



## **Vision:**

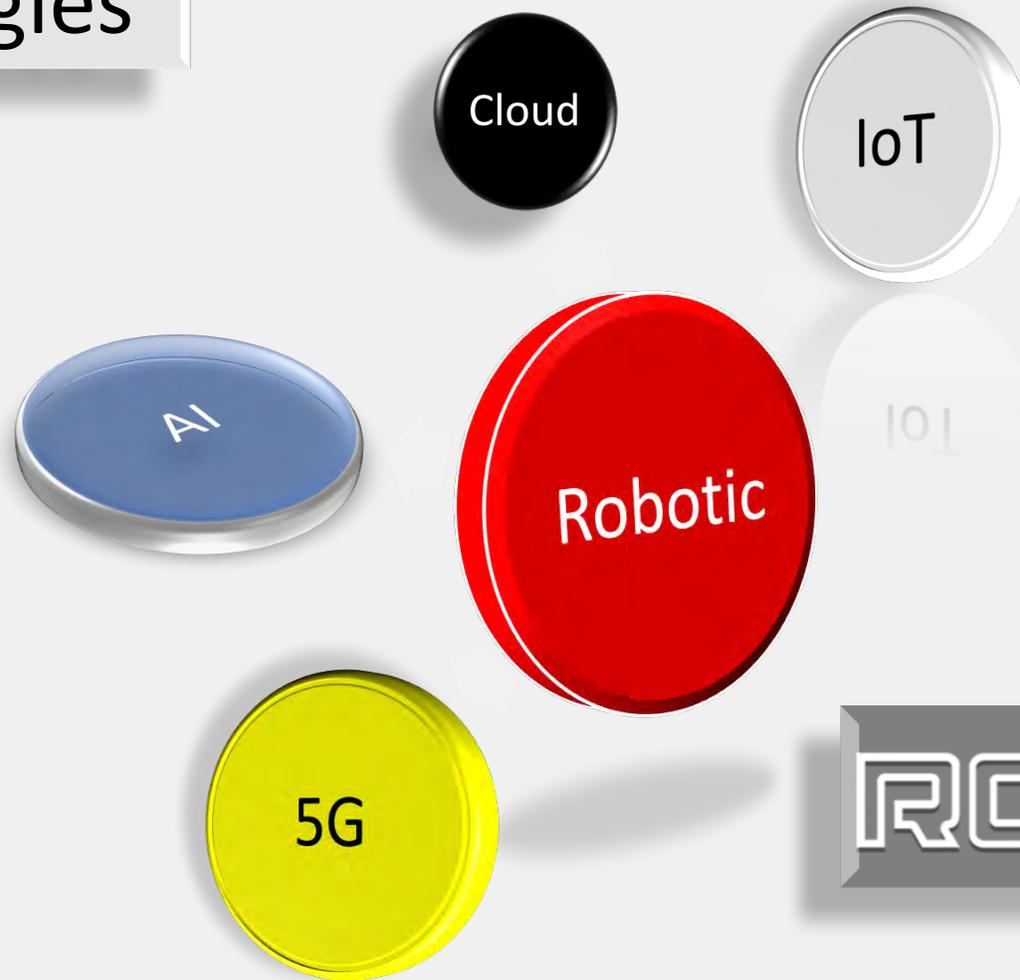
- Be the best tech developer, based in Hong Kong, reach out to the world
- Everyone will have a Roborn Tech movement experience in his/her life

## **Value Proposition: Technization™**

- Integrate technology into an ecology to enable it to be more productive, efficient and sustainable for better human being as a prosperous cycle.



# Core Technologies



**ROBORN**

# Bespoke solutions are available.

## Current applications:

- Surveillance
- Security
- Disinfection
- Body Temperature Measurement
- Livestreaming
- Quality Assurance
- Video Conferencing
- Virtual Tour
- Data Analysis by Video Analytic
- Touchless Button Interface
- STEM Education
- Remote Diagnosis
- Smart Living



Sau Wu  
(Outdoor Disinfection  
Robot/Surveillance)



Semi-Unicorn  
(UVC Disinfection)



Unicorn  
(UVC Disinfection)



Indoor Environmental  
Quality (IEQ) Robot



PEP3000  
(Temperature  
Measurement)



R Cafe



ME (Motion Control Robot)



Freedom 2 (Remote  
Diagnosis)



Future (STEM Education)



Freedom (Virtual Tour/ Video  
Conferencing/Livestreaming)



Stage (Video  
Conferencing/Quality  
Assurance)



kNOW Touch  
(Touchless button  
interface)



Video  
Analytic



# kNOw Touch

## The Touchless Elevator Control System



# kNOw Touch System

A. Sensor Device



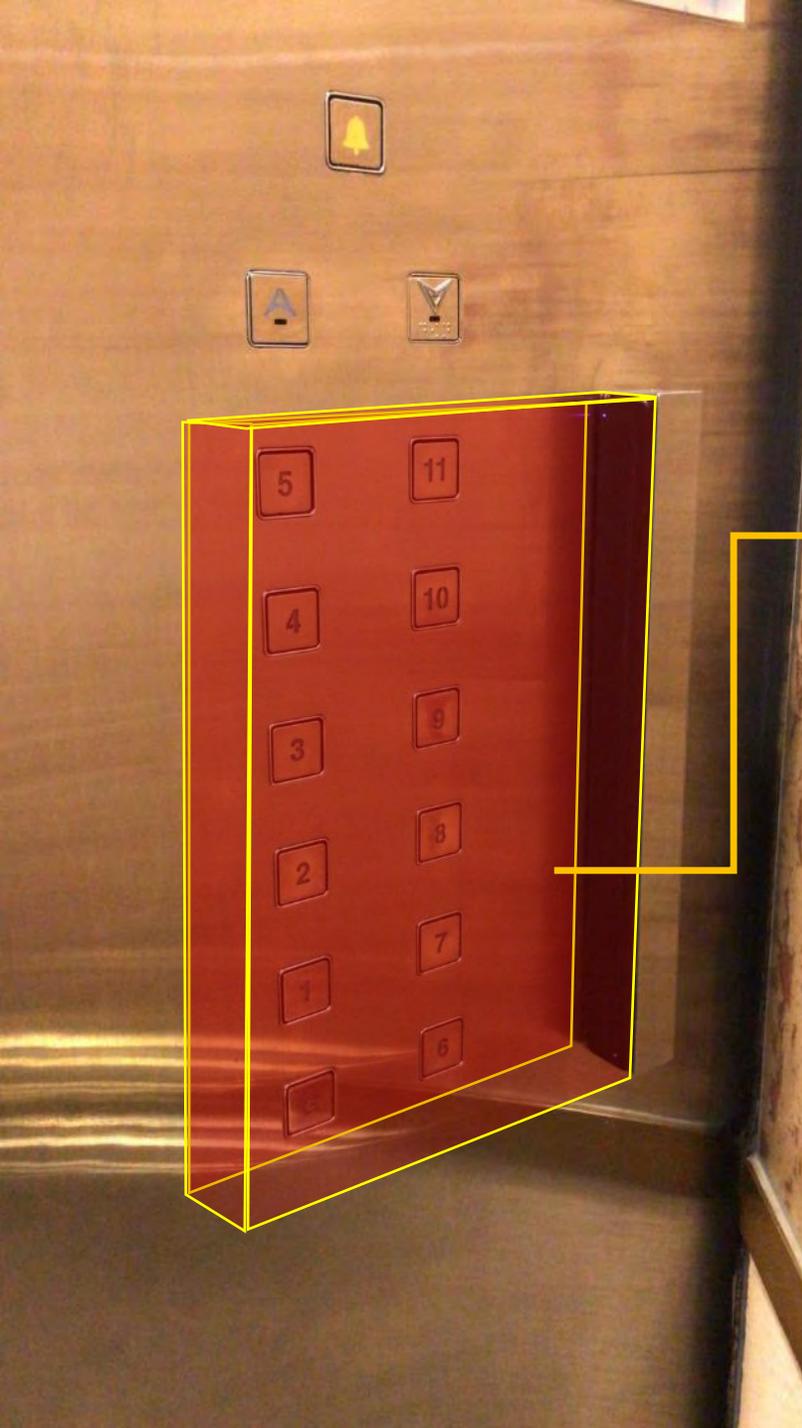
Near the button panel  
installed by Roborn

B. Relay

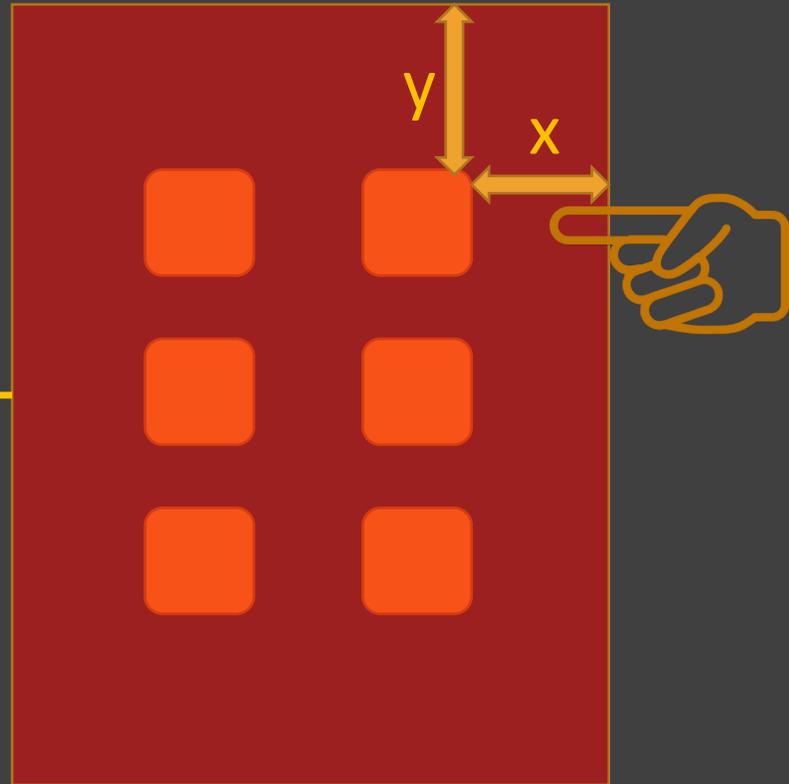


C. Power Supply

Inside the lift car  
installed by lift contractor



kNOw Touch is made of a 2D infrared distance sensor, providing additional electronic signals to the elevator button panel.



The finger position will be detected with the data of x and y coordinates.

# Power supply Installation

Provide 24V to Relay and 5V to kNOw Touch device

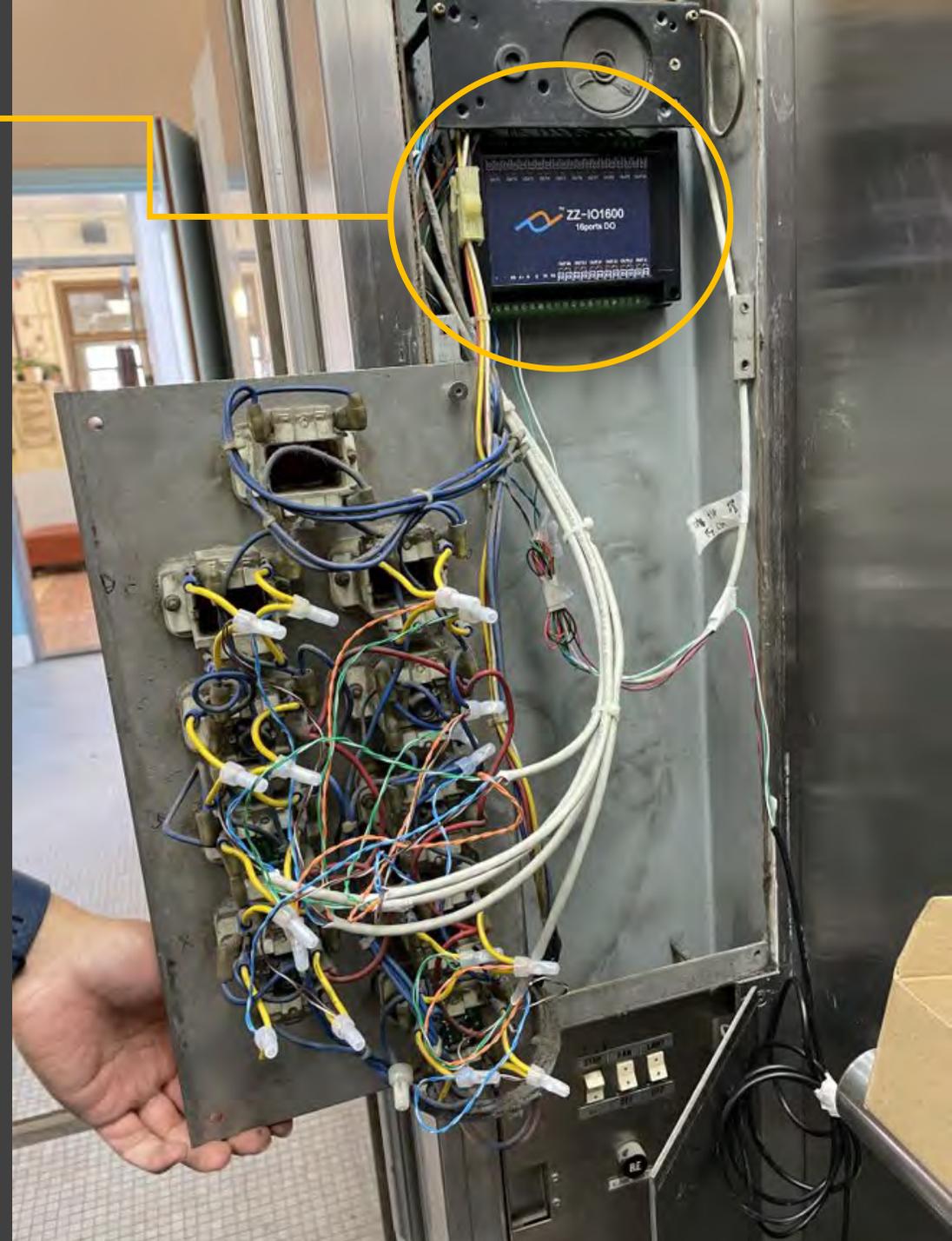


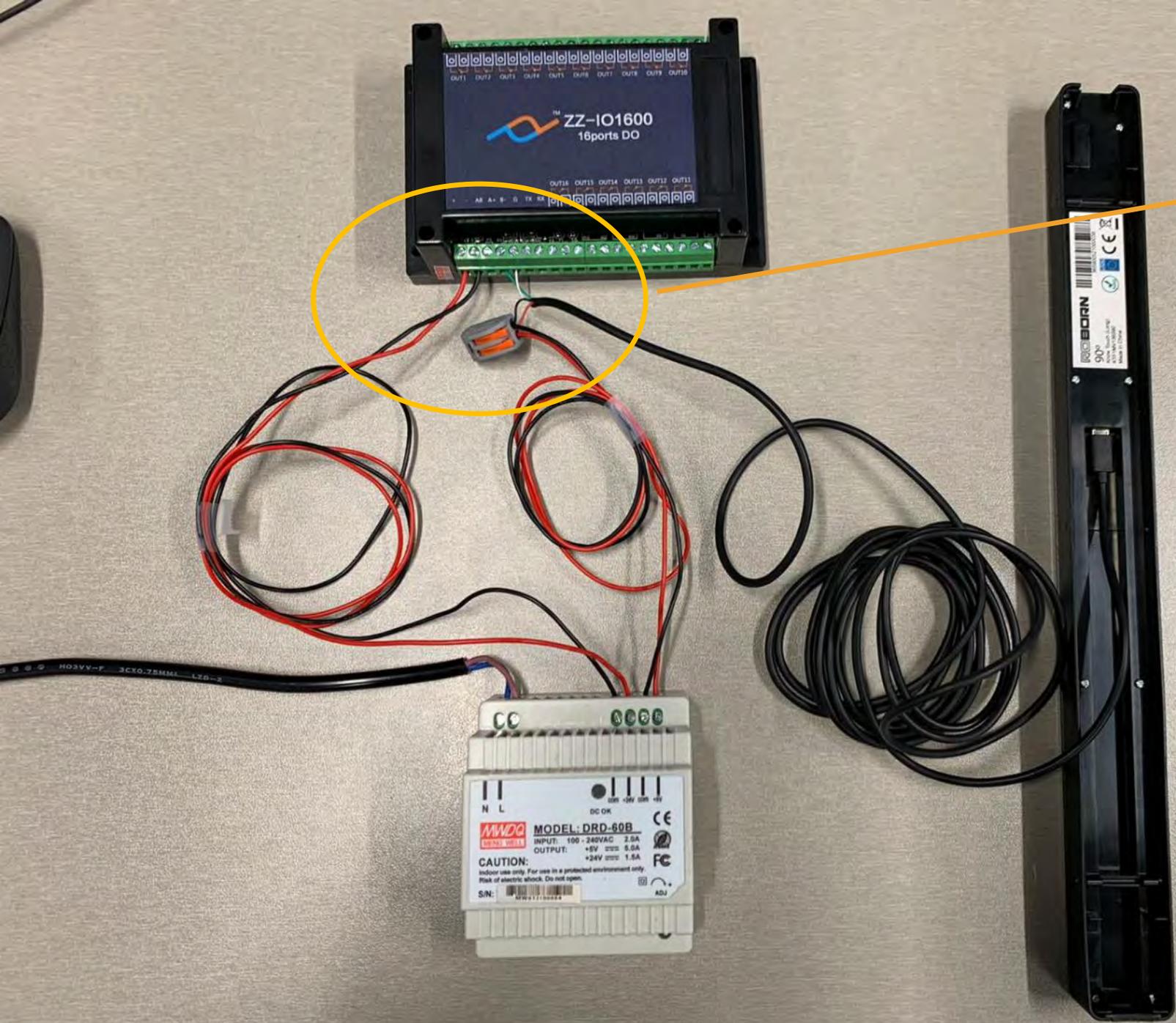
Installed by lift contractor

# Relay Installation

Installed by lift contractor

Trigger the lift button when kNOw Touch device gives it commands





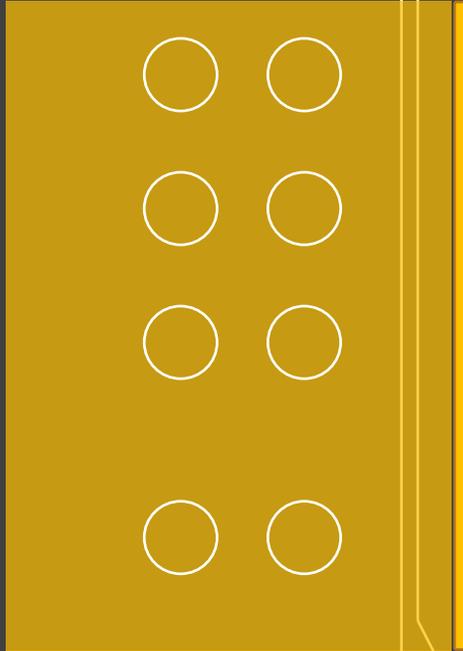
Connect the micro-USB  
to relay power and signal  
input  
RED = +positive  
BLACK = -negative  
Green = A+  
White = B-

# 90 deg (on the wall)

Installed by Roborn

With Adjacent Wall

Detection Plane



On the adjacent wall



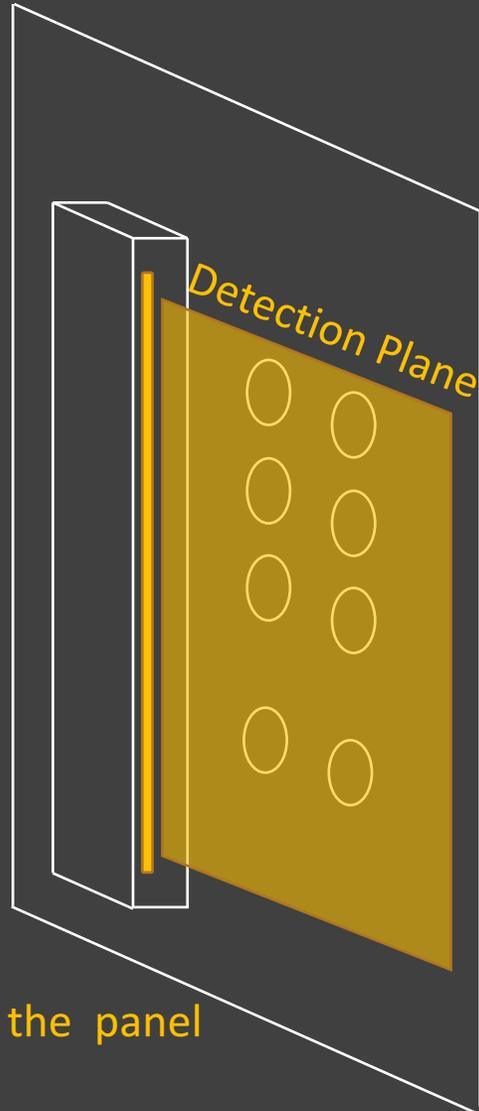
此燈閃亮時，表示已收到求救信息，請耐心等待救援  
WHEN LIGHT BLINKS, IT INDICATES YOUR EMERGENCY CALL HAS ALREADY BEEN RECEIVED. PLEASE BE PATIENT AND WAIT FOR THE RESCUE



With Adjacent Wall

90 degree kNOw Touch device is mounted on the wall

# 0 deg (on the panel)



No Adjacent Wall

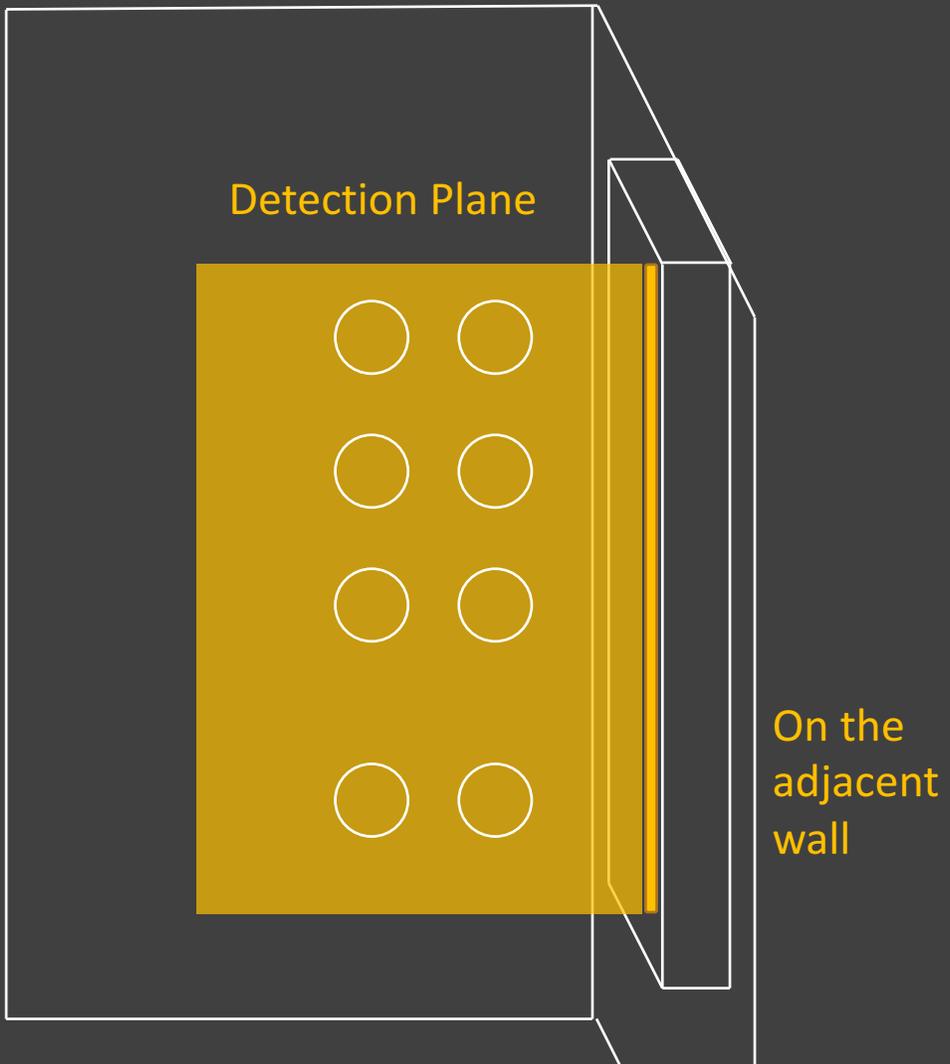
Installed by Roborn

No Adjacent Wall

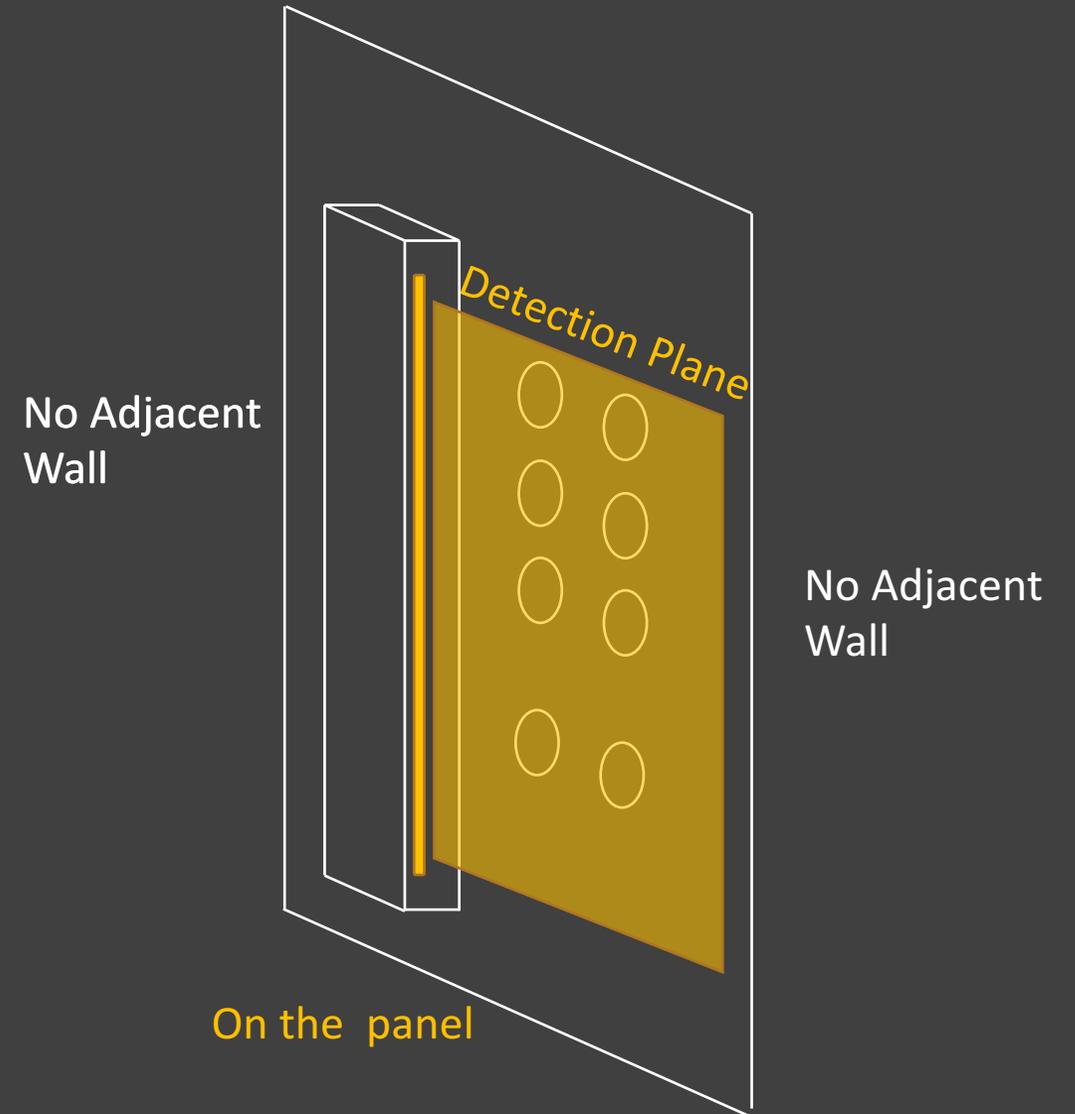
0 degree kNOw Touch device is mounted on the lift button panel



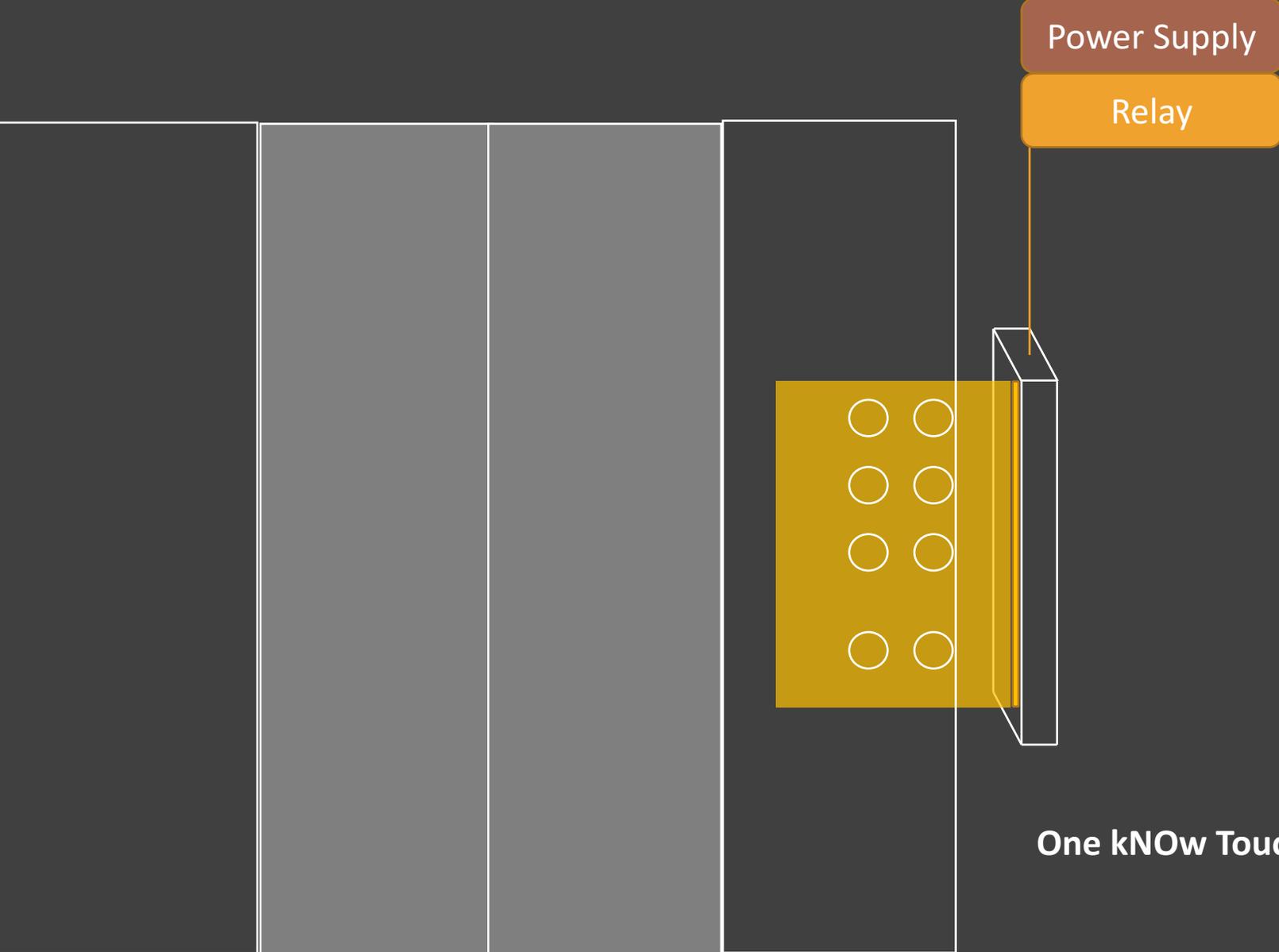
90 deg installation with adjacent wall



0 deg installation without adjacent wall

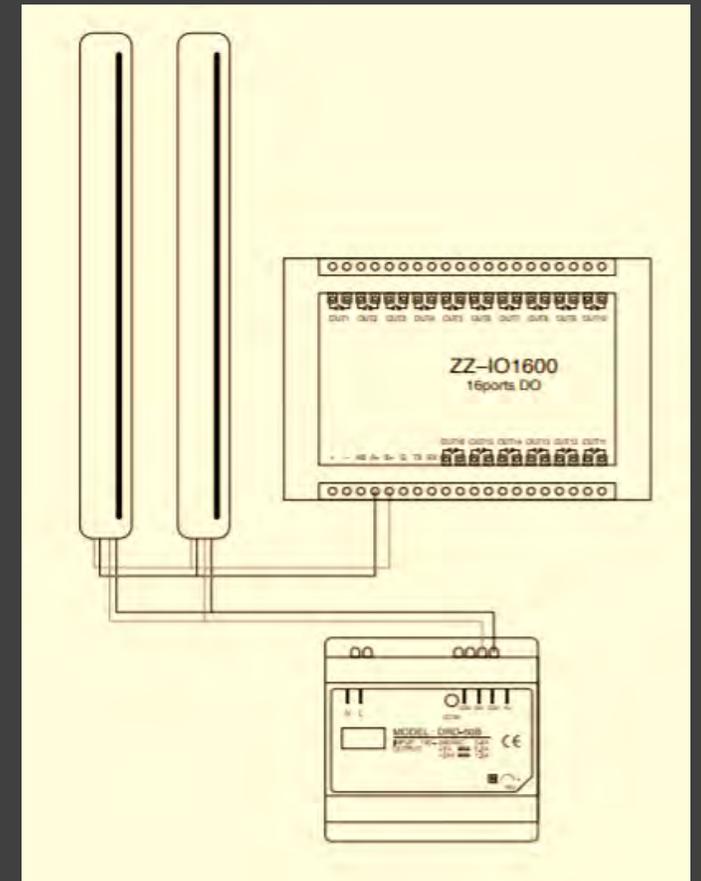
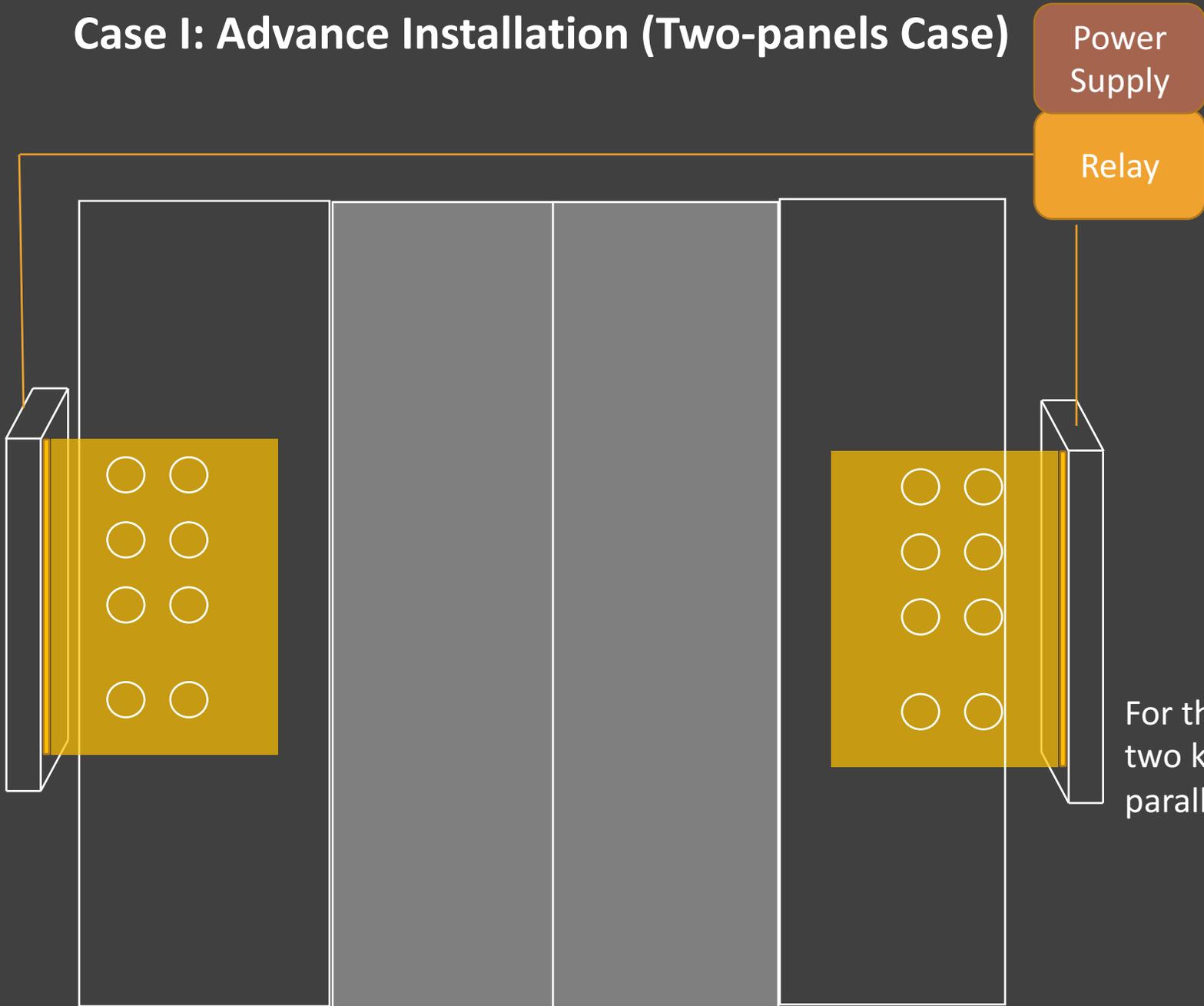


# Standard Installation (Lift button no more than 16)



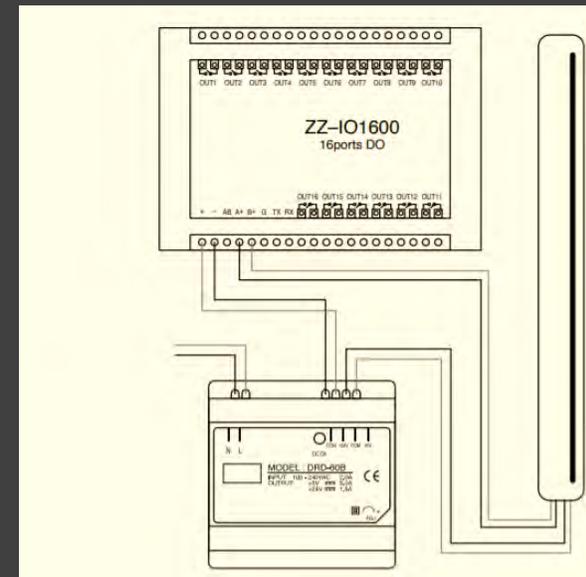
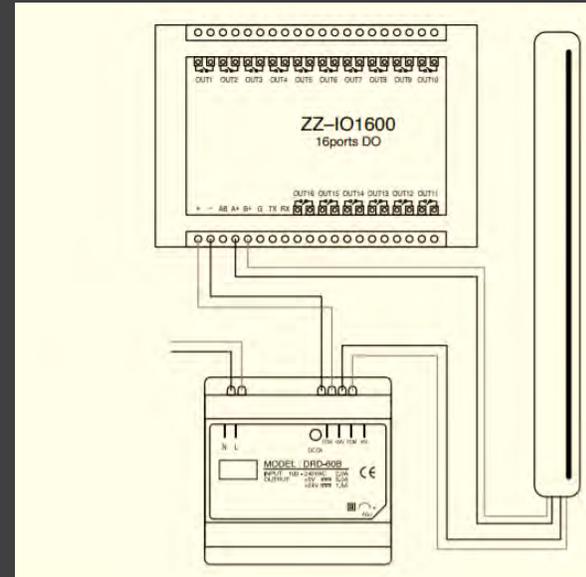
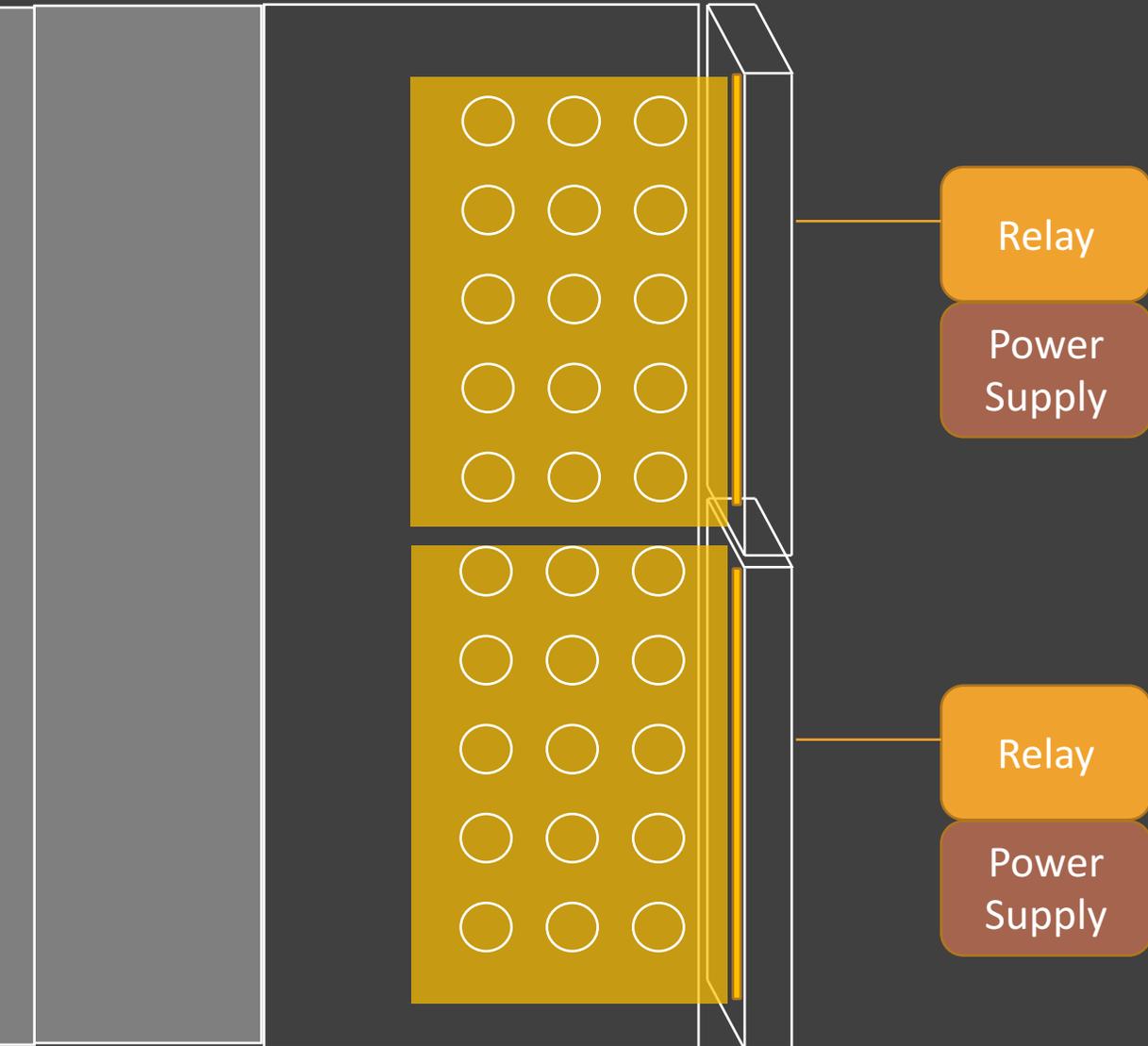
One kNOw Touch device+1 Relay +1 Power Supply

# Case I: Advance Installation (Two-panels Case)



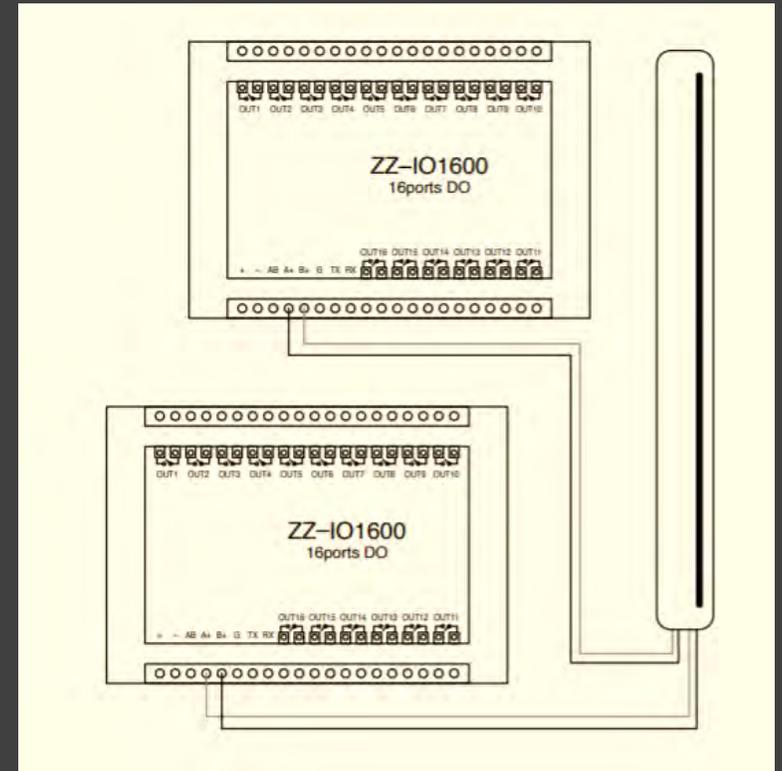
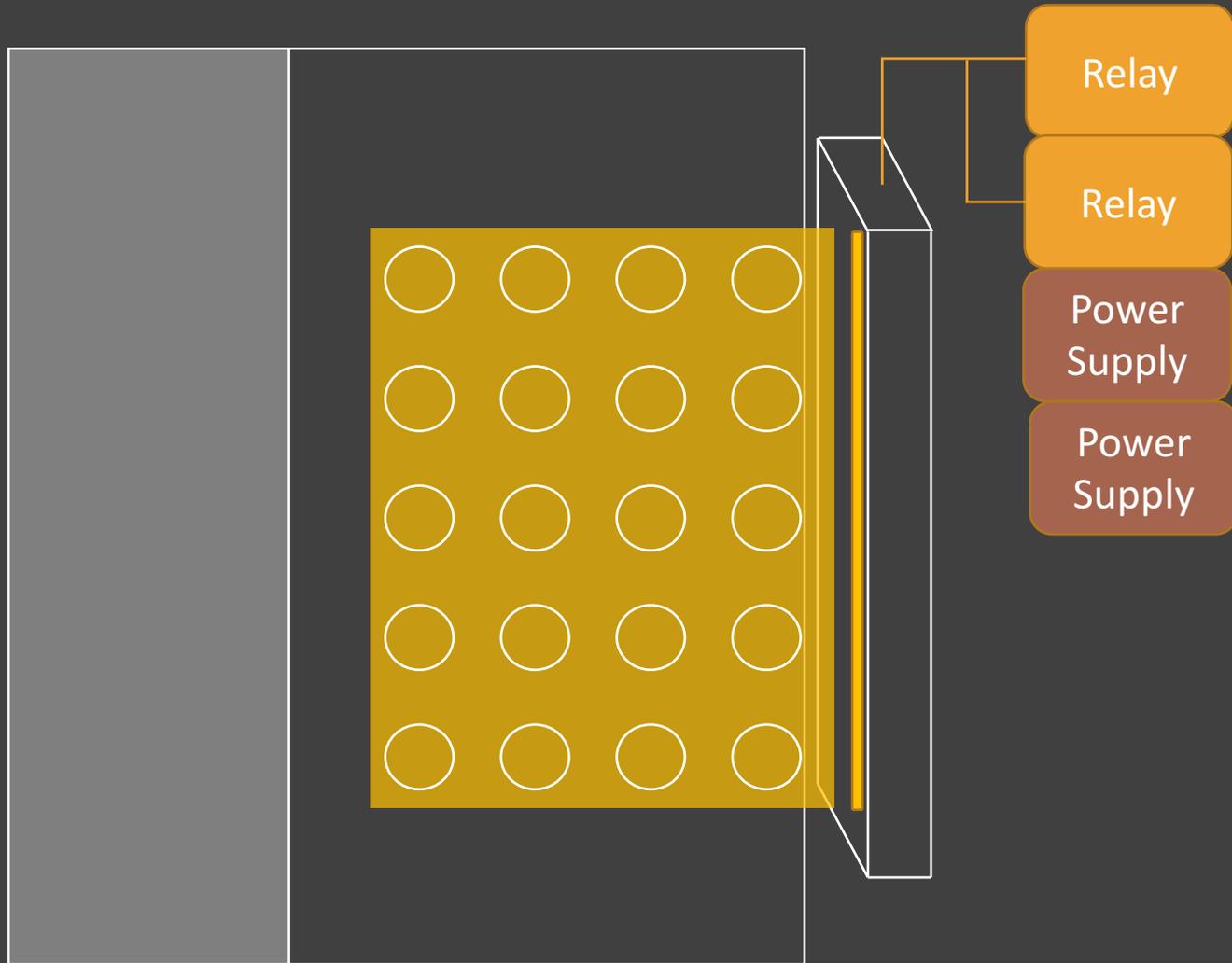
For the case with two-panels lift, two kNOw Touch devices can be connected parallelly to same relay.

# Case II: Advance Installation (More-than-16-buttons Case A)

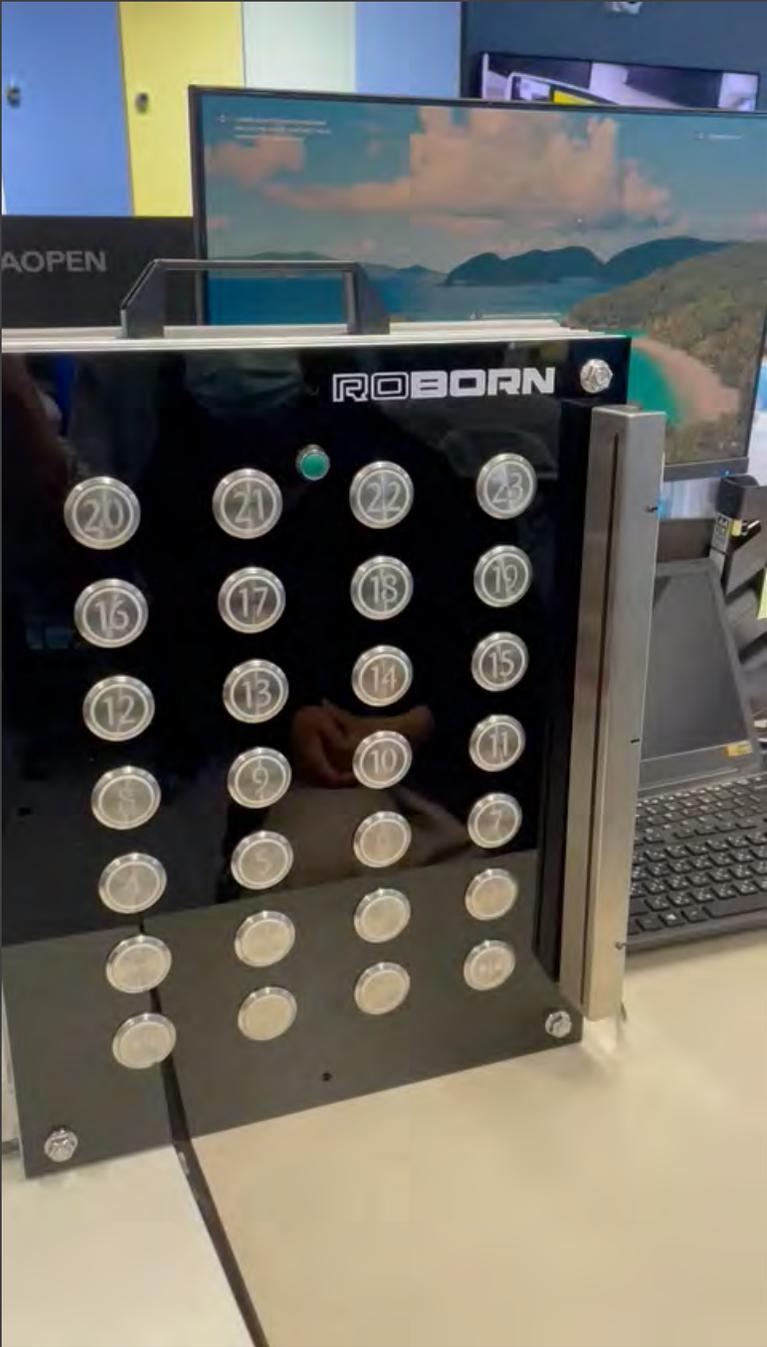


For the case II more-than-16-buttons, two kNOw Touch devices can be connected to two relays separately.

# Case III Advance Installation (More-than-16-buttons Case B)



kNOw Touch usage demo clip



# Mounting and Installation by screws

0 deg (on the panel)



90 deg (on the wall)



# kNOw Touch

## Job Reference

Pacific Place

Hong Kong International Airport

Hong Kong Government Complex

Electrical and Mechanical Services Department

Correctional Services Department

Tsuen Wan Nina Tower

Watsons Center

Windsor House

Lee Kau Yan Memorial School

Hong Kong Cultural Centre

South China Athletic Association

Park Central

The Belcher's

Tai Po Hui Market and Cooked Food Centre

Tseung Kwan O Park Central

Global Trade Centre

Asia Expo

Hong Kong Housing Authority Headquarters

Housing Authority Department -

Lung Cheung Office Building

Skyline Tower Car Park

Queen Elizabeth Hospital (Block T)

Cheung Sha Wan Government Offices

West Kowloon Health Centre

The Legislative Council Complex

One Midtown

Taikoo Place

Hong Kong Air Cargo Terminals Limited

Dragon Centre

Wing Kwong Pentecostal Holiness Church

etc.

kNOw Touch Job Reference

Public Sector



Hong Kong International Airport  
香港國際機場



Hong Kong Science Park  
香港科學園



Electrical and Mechanical Services  
Department Headquarters  
機電工程署總部大樓



Hong Kong Housing Authority  
Headquarters  
香港房屋委員會總部



South China Athletic Association  
南華會



Queen Elizabeth Hospital (Block T)  
伊利沙伯醫院日間醫療中心新翼

kNOw Touch Job Reference

Private Sector



International Commerce Centre (ICC)  
環球貿易廣場



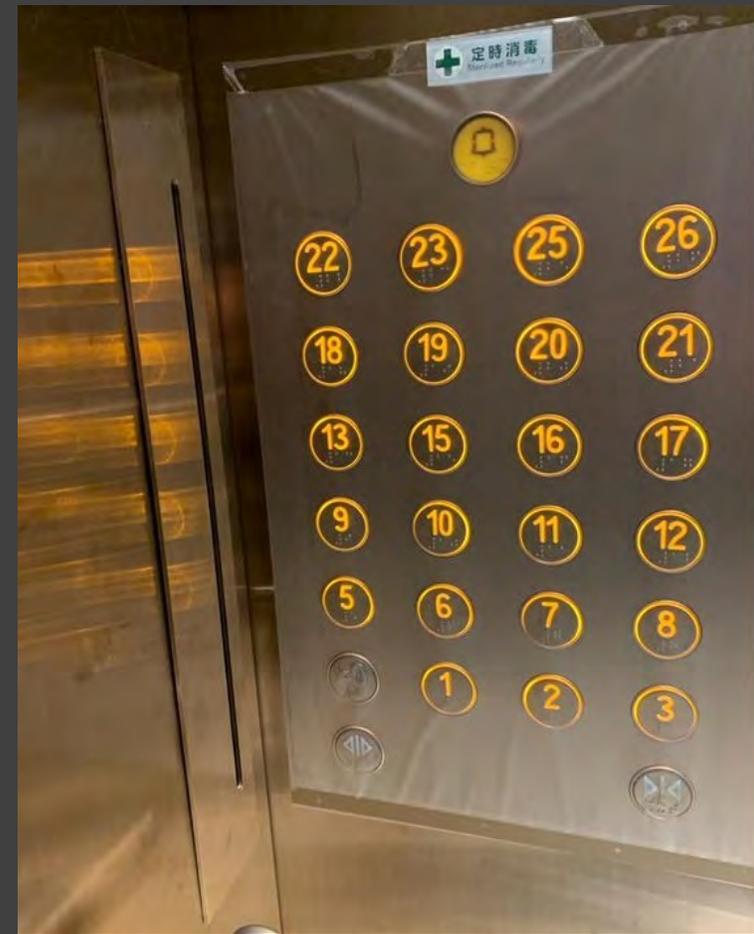
Telford Plaza  
德福廣場



Pacific Place  
太古廣場



Global Trade Centre  
宏貿中心



# Taikoo Place 太古坊





COFCO Tower  
中糧大廈

One Midtown  
荃灣海盛路11號





Watson Centre  
屈臣氏中心



Infotech Centre  
訊科中心

# kNOw Touch Job Reference

Residential Building and Schools



Tseung Kwan O Park Central  
將軍澳中心



Hang Chun Court  
幸俊苑



Shui Chuen O Estate  
水泉澳邨



香港神託會培敦中學  
Stewards Pooi Tun Secondary School

台灣某國小附設幼稚園  
An Elementary School-kindergarten in Taiwan

# kNOw Touch Installation Procedures (Hong Kong Region)

1

- Contact Roborn and lift contractor

2

- Please consult with lift contractors and evaluate the feasibility of installation.

3

- Roborn will schedule site visit

4

- Decision of Installation by client.

5

- Proceed the installation

# Thank you



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