



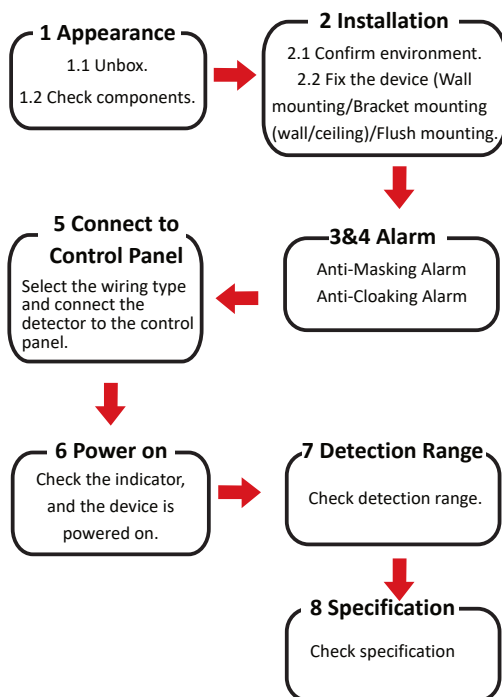
Wired Dual Technology Detector DS-PD701DT18AM Quick Start Guide

EN 50131-1:2006 + A1:2009 + A2:2017 + A3:2020
EN 50131-2-4:2020
Security Grade 3
Environment Class II
UD37742B

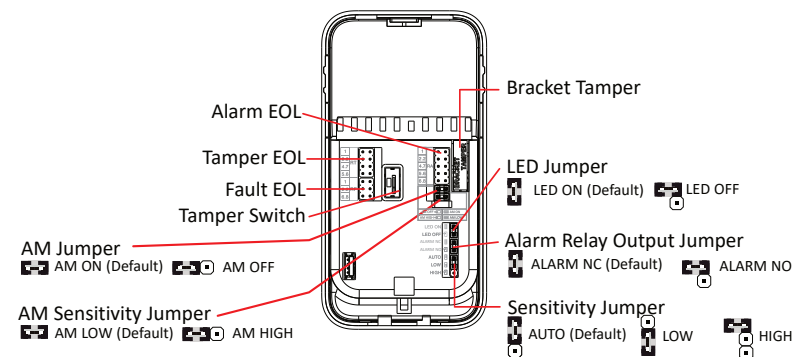
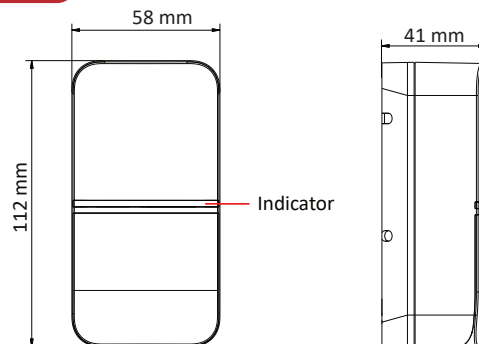
User Manual



User Manual Flow Chart

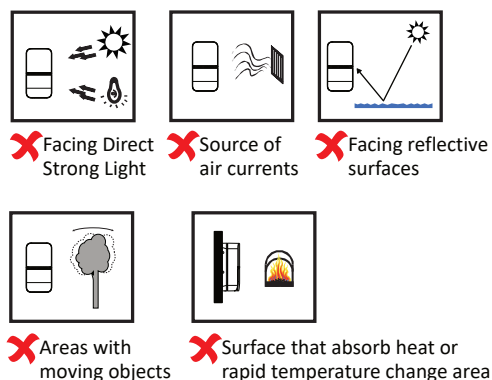


1 Appearance

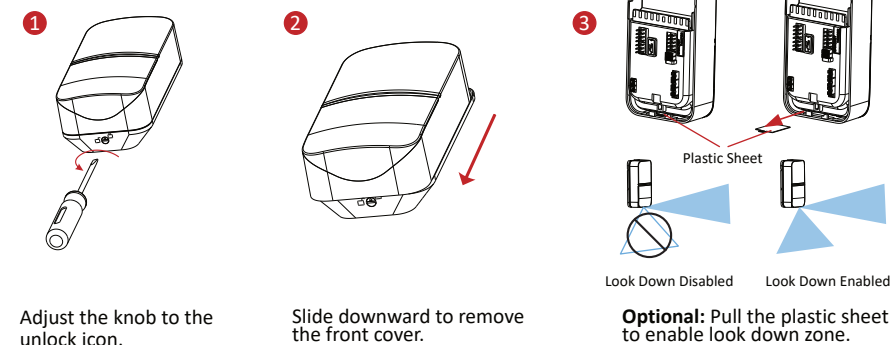


2 Installation

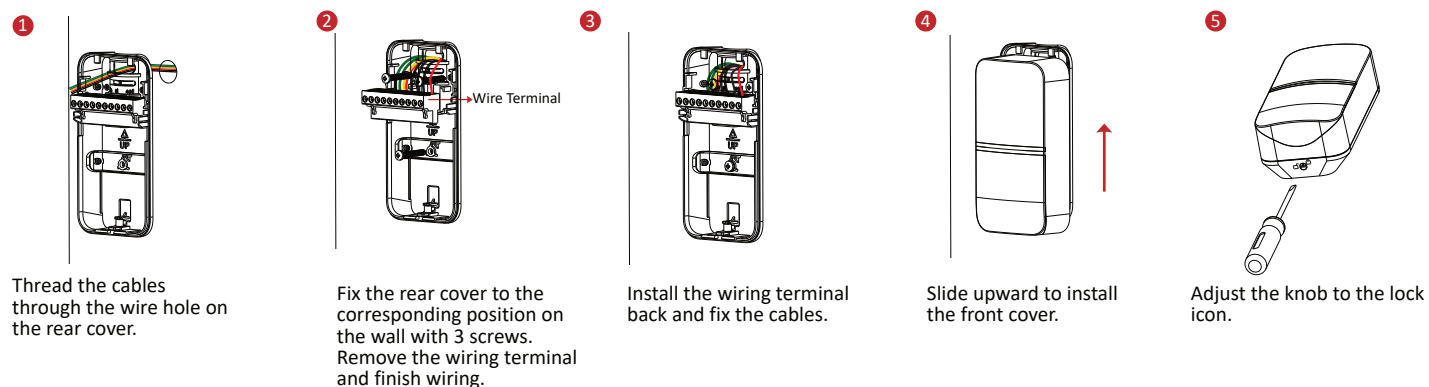
Installation Environment



Before Installation

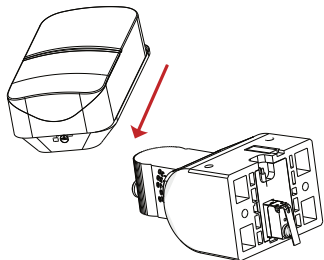


① Wall Mounting



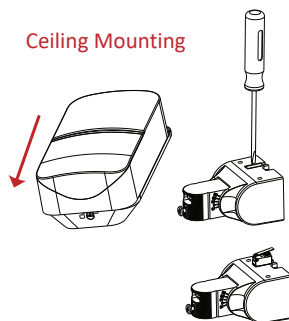
② Bracket Mounting (Wall & Ceiling Mounting)

① Wall Mounting

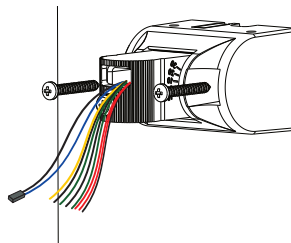


Slide downward to remove the front cover. Install the tamper switch.

Ceiling Mounting

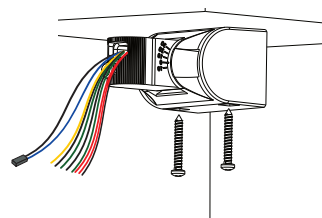


② Wall Mounting



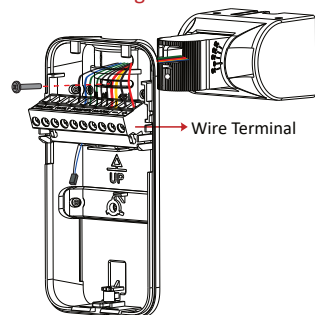
Install the bracket to the wall.

Ceiling Mounting



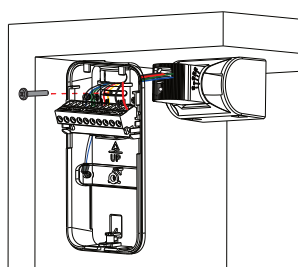
Fix the bracket to the ceiling with 2 screws.

③ Wall Mounting

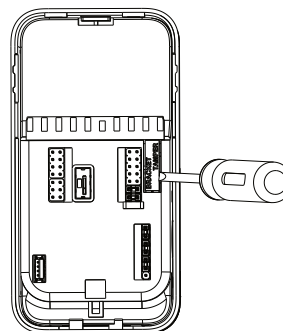


Tilt or remove the wire terminal and finish wiring. Put the wire terminal back, and fix the rear cover to the bracket with one screw.

Ceiling Mounting

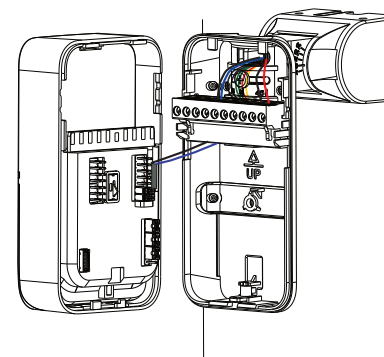


④



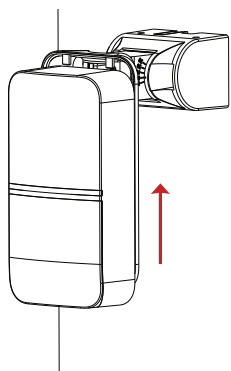
Remove the bracket tamper cover on the front cover.

⑤



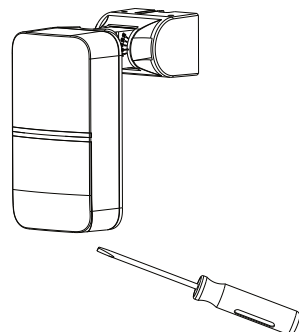
Connect the tamper cable to the front cover, and fix the cable.

⑥



Slide upward to install the front cover.

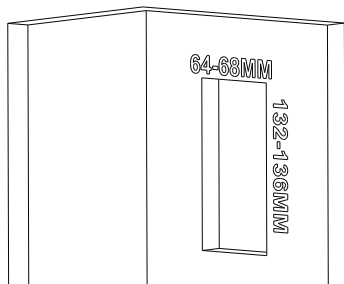
⑦



Adjust the knob to the lock icon.

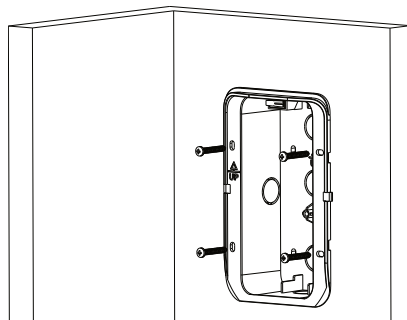
③ Flush Mounting

1



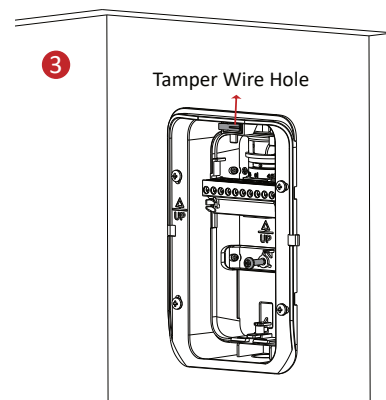
Chisel a hole on the wall (width: 64 to 68 mm, length: 132 to 136 mm, depth: 40 to 42 mm).

2



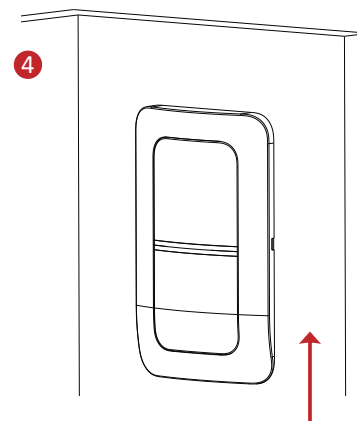
Fix the rear cover to the bracket with 4 screws.

3



Thread the tamper cable through the wire hole, and fix the rear panel to the bracket with one screw.

4

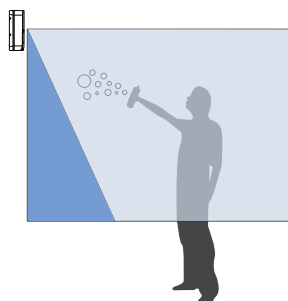
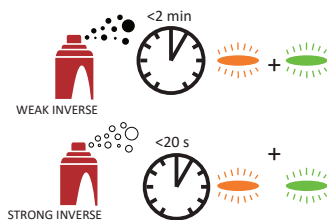


Slide upward to install the front cover.

3 Anti-Masking Alarm

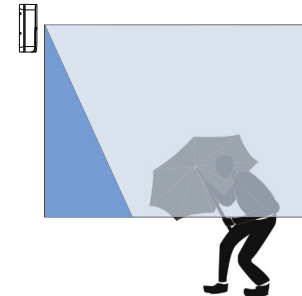
Anti-masking function is complying with EN50131-2-4 grade3 within AM-Hi sensitivity.

Mounting position of the detector shall be 0.5m away from lamp of forklift and fluorescent lamp to avoid masking false alarm.



4 Anti-Cloaking Alarm

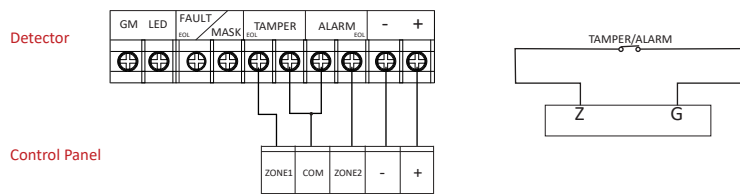
Anti-cloaking and Anti-crawling is complying with High sensitivity.



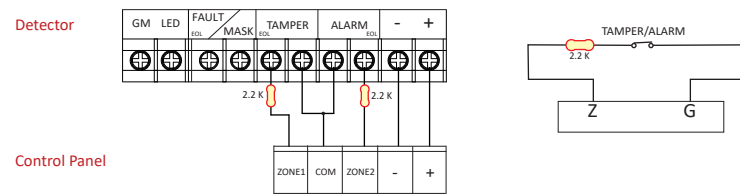
5 Connect to Control Panel

Note: The resistor needs to be connected to the end of detector.

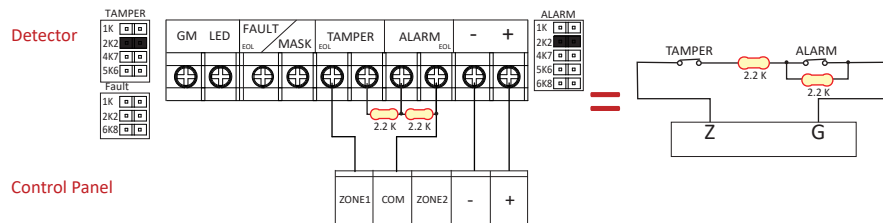
1 None Resistor Wiring



2 Single EOL Wiring

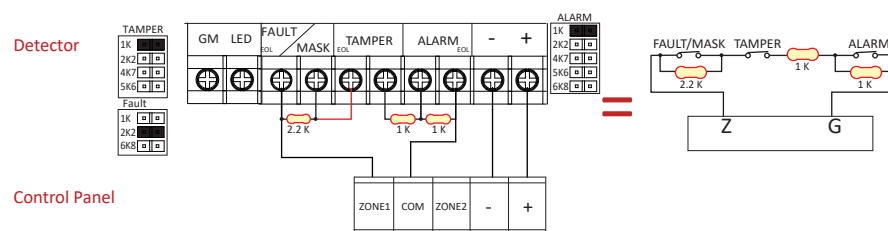


3 Double EOL Wiring

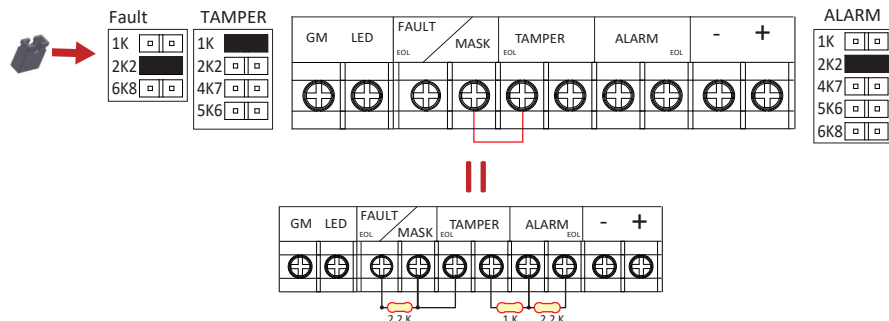


4 Triple EOL Wiring

Note: There is no red cable in the detector, which needs wiring by yourself.



Fault:1K, 2K2, 6K8

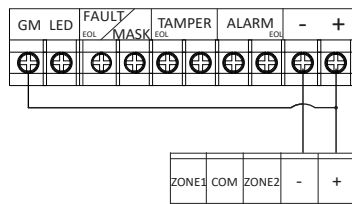


	Normal	Intrusion	Fault	Mask
Alarm Relay	Closed	Open	Closed	Open
Fault Relay	Closed	Closed	Open	Open

	Normal	Intrusion	Fault	Mask
Alarm Relay	Open	Closed	Open	Closed
Fault Relay	Closed	Closed	Open	Open

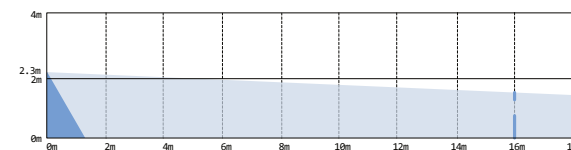
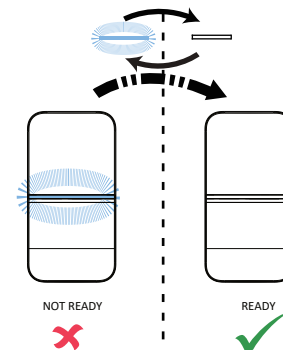
LED Jumper	LED Input	LED Operation
OFF	High (9 to 16 V)	Enabled
OFF	Low (0 V)	Disabled
ON	Low (0 V) or high(9 to 16 V)	Disabled

The detector supports PIR operation only when it is in GM mode, the default is microwave disabled, LED off, and AM status is according to configuration (if AM is on, the LED for AM alarm is on). When PIR is triggered, the microwave will be active and operation as normal. If PIR is not triggered within one minute, the microwave will disable again.



1. After powering on, the detector enters walk test mode for 10 minutes.
2. When LED is disabled, use hand close to the surface of the detector, blocking 1 s and removing 1 s consecutively for 5 times, the detector will enter walk test mode for 3 minutes, and the red light flashes for 3 s.

Detector Status	LED Operation
Powering Up	Blue flashing
Alarm	Blue
PIR Activated	Green
Microwave Activated	Red
Masked	Green and orange flashing alternately
Fault	Orange flashing



8 Specification

Detection method	Passive infrared, microwave
Detection range	18m
Detection angle	90°
Detection zones	20
Detectable speed	0.2 to 2.5m/s
Sensitivity	High/Auto/Low
White light filter	6500lux
Microwave frequency	24GHz [24.15~24.25GHz]
Digital temperature compensation	Support
Creep zone protection	Support
Digital processing	Support
Sealed optics	Support
Tamper protection	Support
Anti-masking(AM)	Support
Anti-cloaking	Support
Anti-crawling	Support
Alarm relay output	Normally closed; Normally open; 150mA, 100 VDC, 8 0ohms resistance max.
Fault relay output	Normally Closed;150mA, 60 VDC, 20 Ohms resistance max.
Tamper switch	NC with cover installed, 100mA, 30 VDC
LED indicator	Green(PIR), Red(Microwave), Blue(Alarm),Fault(Orange),Mask(Green+Orange) Power Up(Blue flashing)
Transmission method	Wired
Power supply	9 to 16 VDC
Typical voltage	12 VDC
Power consumption	Maximum current: 16mA@12 VDC Quiescent current: 11mA@12 VDC
Operation temperature	-10 °C to 55 °C (14 °F to 131 °F)
Storage temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Operation humidity	10% to 90%
Dimension(W x H x D)	58 mm x 112 mm x 41 mm
Weight	120g
Mounting height	2 m to 2.7 m
Mounting method	Wall; Flush mount
Application scenario	Indoor
Bracket	Optional wall & ceiling accessory

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