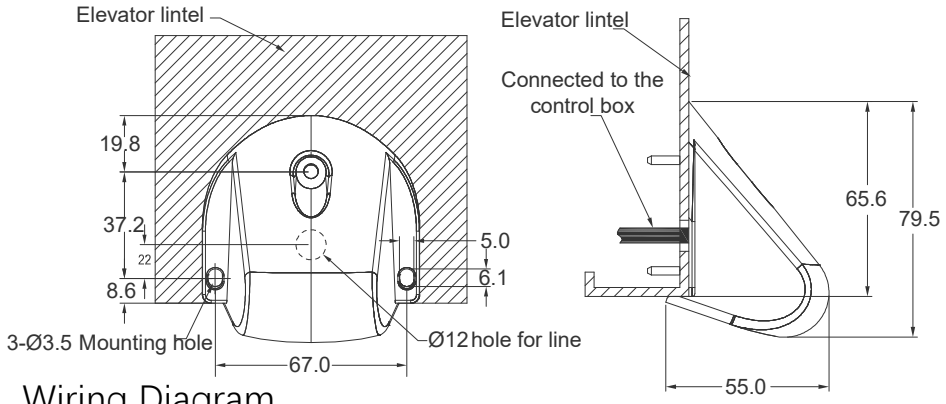
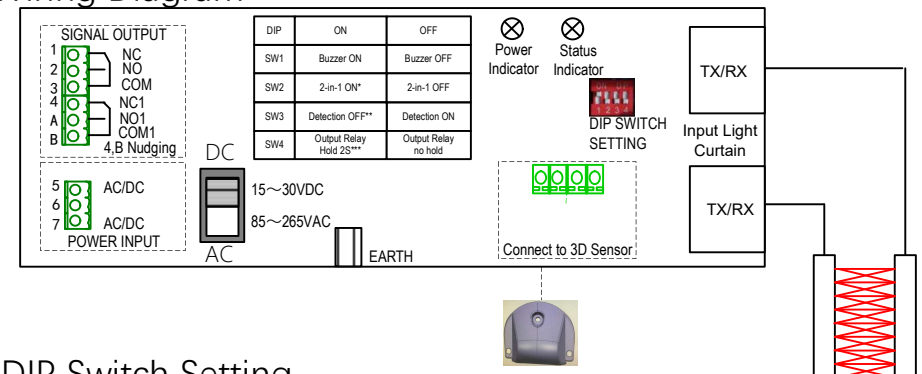
3D Sensor Installation Dimension



Wiring Diagram



DIP Switch Setting

DIP	ON	OFF
SW1	Buzzer On	Buzzer Off
SW2	3D Function On	3D Function Off
SW3	DOR Off when nudging	DOR On when nudging
SW4	DOR hold 2S	DOR hold off

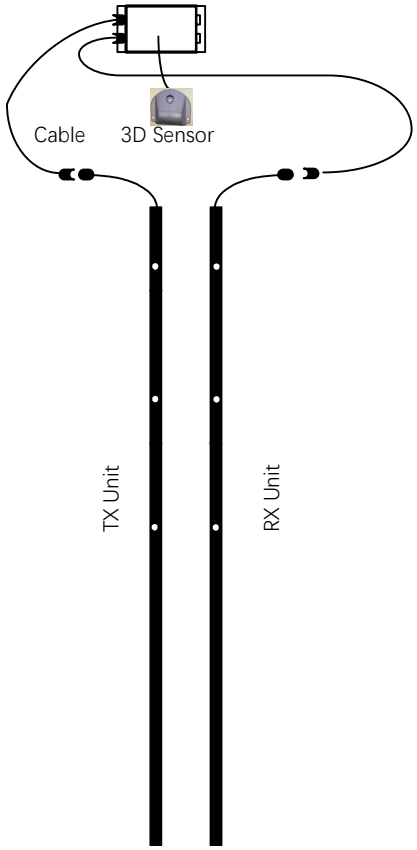
* DOR refers Detection Output Relay

Packing List

	Item	QTY		Item	QTY
1	Cable	2	5	Unser's manua	1
2	TX Unit	1	6	Accessories	1
3	RX Unit	1	7	3D Sensor	1
4	Control Box	1	8	3D Sensor Cable	1

Please check all the items according to the packinglist before installation

WECO987P+3D-265 User's Manual



System Connection

Specifications

- Cross beam scan protection is always on
- Solid, easy to install
- With LED indicator light
- Dynamic Installation only
- 2D light curtain with 3D Sensor
- Comply with 2019 ASME 17.1

Important Notice

Please read this manual carefully before installation and keep it for future reference.

2D Installation Instruction

1.Turn off the main power of elevator, put warning sign to clearly mark the elevator is out of service.

2.Fix TX and RX on the car door, ensure that there is no angular deviation in the horizontal and vertical directions as fig 1.

Fig 1

3.Connect the door detector with cables, close and open the doors manually to make sure cables tightened correctly as fig 2. Do NOT cut and rewire the cables。When there is a tank chain, tie the light curtain cable and the tank chain with cable ties(Fig. 3). The connecting cable is provided with a shielded wire. Do not cut and reconnect without permission!

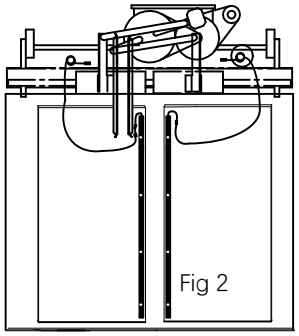
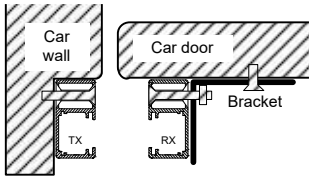


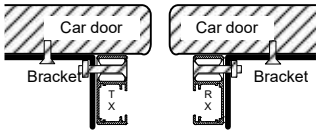
Fig 2

4.Power-on test after final checking,When the light curtain is not blocked, the yellow LED in RX is on. When the light curtain is blocked, both yellow and red LEDs in RX are on.

Side openning door



Central openning door



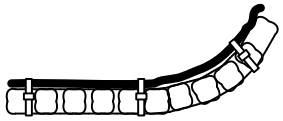
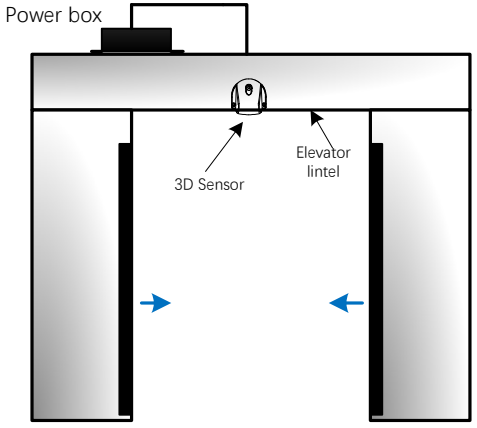


Fig 3

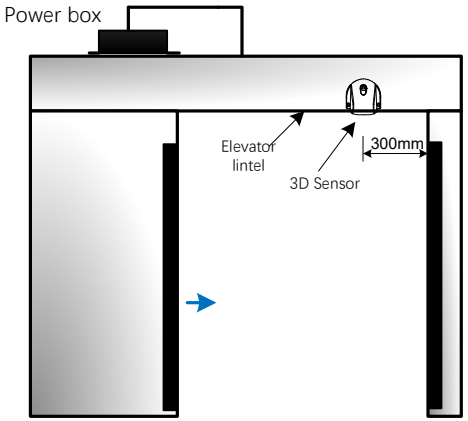
3D Sensor Installation

Fix 3D Sensor on Elevator lintel

Central openning door



Side openning door



Specifications of 2D

Detecting Range	0 - 4000mm
Working Condition	-20℃-65℃, 100,000LUX
Pairs of Diodes	40pairs
Scanning Beams	194beams
Tolerance	Up/down:±15mm,Back/forth:±3mm,angle±5°
Response Time	≦100ms
Signal Output	Relay Output
Yellow LED in RX	Power Indicator
Red LED in RX	On:Blocked or faulty OFF:Normal
Working Voltage	85 ~ 265VAC or 15 ~ 30VDC (Set by Dip Switch)

Specifications of 3D

Installation Height	1900mm ~ 2200mm
Frequency	24.125GHz
Minimum Detecting Range (from Elevator Door Hall)	200 ~ 500mm
Maximum Detecting Door Opening Width	Central openning:1750mm,Side openning:1200mm
Tolerance	Up/down:±15mm,Back/forth:±3mm,angle±5°
Working Condition	-20℃-65℃, 100,000LUX
Minimum Detecting Speed	20cm/s
Detecting Mode	Moving Objects

Function

1. System performs self-checking all the time. If self-check is failure, the Red LED in the Control Box flashes every 0.5 sec, nudging relay is activated.

2. Causes of self-checking failure:

(a)TX or RX not connected.
(b)RX output signal cut off or short circuit.
(c)3D sensor not connected (When 3D function is selected).

3. Normal operations for stopping detecting permitted by system:

(a)3D sensor is invalid within 450mm of door distance before the car door final closed.
(b)After 20 seconds from the first moving object detected and there are objects detected continuously, but no object is detected by 2D,3D sensor is invalid. Then the red LED on the power box flashes at the frequency of 1second on and 1.5 seconds off.

4. 3D Timer setting period (20S),Timer reset trigger condition:

(a)3D objects detecting signal disappear.
(b)Objects detected by 2D.
(c)When door distance is 20mm before the car door final closed.

5.low-speed door closing (nudging) output and triggering buzzer

(a)After 20 seconds from the first moving object detected and there are objects detected continuously, but no object is detected by 2D.
(b)Objects continuously detected in the core protection area for more than 20 seconds.
(c)System self-checking function failure.