



# UPF SERIES DOOR DETECTOR

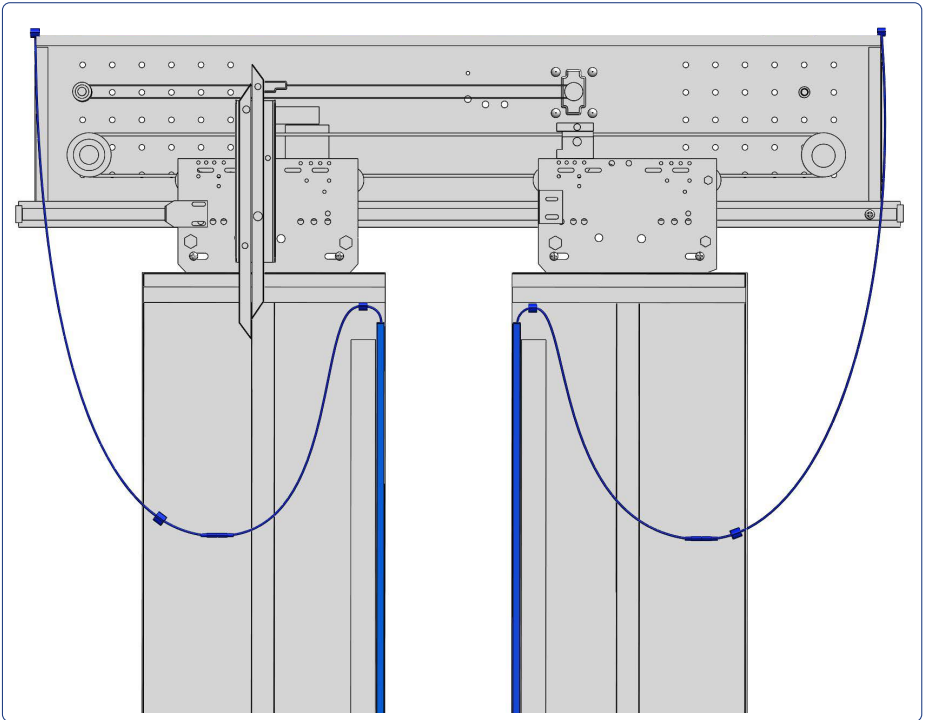
## USER MANUAL

**WECO**

Version UM.UPF



# INSTALLATION INSTRUCTIONS



- 1.** Securely fix the transmitter and receiver to the car/car doors through the fixing holes with the bolts provided, ensuring that the labels are pointing outwards.
- 2.** Ensure that both the receiver and the transmitter are at the same level.
- 3.** Connect the cables from the receiver and the transmitter to the input terminals of the door controller.
- 4.** Ensure that both cables can be easily and smoothly bent. Tightly lock both sides of the intermediate connectors.
- 5.** Switch on the power.  
The yellow LED in the receiver will light up.  
The red LED in the receiver will light up when the light beams are interrupted.



Please ask us about our range of fixings clips and brackets.



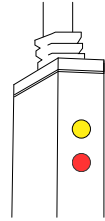
## NOTES AND ADVICE

- Keep the connection cables away from high voltage and/or high current wires.
- Keep the connection cables away from the door motor and door drive.
- Avoid direct sunlight or other infrared ingress to the receiver (RX).
- Prior to power-on, clean the lenses with a soft, damp cloth.
- Do not bend or twist the edges, and do not scratch the lenses.

### PLANNED MAINTENANCE PROCEDURE

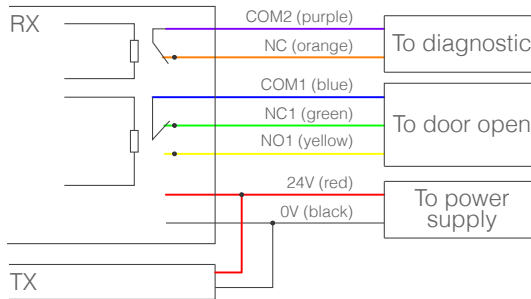
- Ensure that the yellow LED is lit (system functioning), then clean the lense with a soft, damp cloth.
- Check all plug and terminal connections.
- Perform a detection test by inserting an object greater than 50mm between the TX and RX.
- The red LED status indicator will light up to confirm object detection.

Door Detector LEDs



## WIRING

### 1. DIRECT CONNECTION TO DOOR CONTROLLER



### 2. NPN & PNP WIRING

	NO	NC
NPN	Yellow to black Green not connected Blue is output	Green to black Yellow not connected Blue is output
PNP	Yellow to red Green not connected Blue is output	Green to red Yellow not connected Blue is output



## TROUBLESHOOTING

Neither LED in the receiver is lit.



The cable is broken or not connected.

Both the yellow and red LEDs of the door detector are lit without interruption between the RX and TX.



The plastic filter is too dirty.  
Other infrared equipment is nearby.  
The ambient light is stronger than allowed.  
There is a system fault.

The LEDs of the door detector are lit correctly when interrupted, but the car door doesn't open.



Wrong connection with NC/NO contacts.  
The output relay is broken.  
Check the wiring.

## PACKING LIST

### DOOR DETECTOR SET PACKING LIST

ITEMS	QTY
Cables	2 cables
Transmitter	1 piece
Receiver	1 piece
Operation manual	1 copy
Mounting accessories	1 set

### MOUNTING ACCESSORIES LIST

ITEMS	QTY
Cable clip	6 pieces
M3 spring washer	10 pieces
M3x25 bolt	10 pieces
M3 nut	10 pieces
M4 plastic washer	10 pieces
3x100mm cable tie	20 pieces
M4x10 self-drilling screw	8 pieces



## WARNING ADVICE



- This equipment should be installed only by qualified technicians.
- Please closely follow all instructions in this manual.
- Do not drill the PCB.