



# DOOR DETECTOR SIL 2 - WELIG WITH POWER SUPPLY (WEBOX)

## USER MANUAL

**WECO**

Version UM.SIL2.PWS.WEBOX



## PACKING LIST



Please check if anything is missing from the packing list.  
Contents may differ slightly according to the customers' specific requirements.

WEBOX controller	1 Piece
Cables	2 Cables
Transmitter	1 Piece
Receiver	1 Piece
Operation manual	1 Copy
Mounting accessories	1 Set

# INSTALLATION INSTRUCTIONS



The WELIG series is designed for static installation only, on lifting platforms that do not have a cabin door.

1. Securely fix the profiles to the lifting platform walls ensuring passengers can enter/exit the car without disturbing the profile's positioning.
2. Ensure that the Sender (TX) and Receiver (RX) are at the same level and are in line with each other.
3. Securely fix the SIL 2 controller on the platform, ensuring that the controller is grounded.
4. Connect the TX and RX cables, ensuring a smooth, easy and protected pathway for the cables.
5. Connect 12-24 VDC to terminal - and + in the SIL 2 controller. Voltage selection is not required, as the controller will automatically adjust.
6. Connect terminals 1 and 2 in the SIL 2 controller to the platform's safety chain. Relays are rated for 4A 250V.
7. Turn on the power. The green LED in the SIL 2 controller should light continuously if there is no obstruction between the profiles. The green LED in the RX should be on.



The SIL 2 is a **safety device**, which requires initial testing at the commissioning stage and regular further testing as part of any planned maintenance program.



## NOTES AND ADVICE

- Keep connection cables away from high voltage and/or high current wires.
- 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 green LED is lit constantly (system powered up and functioning) in both the WEBOX and the RX profile.
- Check all plug and terminal connections as well as the output to the safety chain.
- Perform the test procedures outlined below.

## TEST PROCEDURE - Stationary Platform

1. Check that the green LED in the WEBOX and the RX profile is on.
2. Place an obstruction between the profiles, typically an arm or a leg.
  - 3.1 The safety relays will switch immediately. This is visible through the transparent cover of the contacts.
  - 3.2 The green status LED will immediately start to blink and after 5s the buzzer will activate, as long as the obstruction is detected.

## TEST PROCEDURE - In Motion

1. Check that the green LED in the WEBOX and the RX profile is on.
2. Place an obstruction between the profiles (a toolbox or similar).
  - 3.1 The safety relays will immediately switch, forcing the platform to stop.
  - 3.2 When an obstacle is detected, the green status LED in the SIL 2 controller will begin to blink and, after 5 seconds, the buzzer will activate.



## WARNING



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



# TROUBLESHOOTING

WEBOX and WELIG are powered ON and the green LED is not lit in the RX.



The cable is broken or not connected correctly.

The green LED in the RX profile is blinking, even though there is no obstruction between the profiles.



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

WEBOX and WELIG are powered ON and there is an obstacle between the profiles but the safety relays do not activate.



If the green LED is flashing, then the device is defective and the platform must be shut off.  
If the green LED does not flash, check all connections and recommission the device.

The green LED in the power supply is not lit.

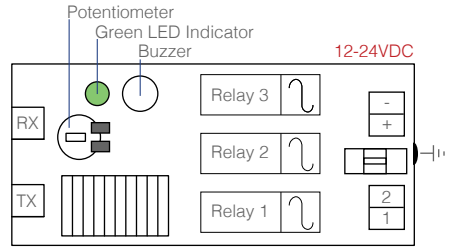


The power supply wires are broken or incorrectly connected.  
The terminal connection is too loose.  
The power supply is broken and needs to be replaced.

## POWER SUPPLY

WEBOX

MODEL NO.	03.G5.WEBOX
'+'	12-24VDC
'-'	0VDC
CONNECTION 1 & 2	OUTPUT



## LED INDICATOR

	ON	Constantly lit when there is no obstruction between the profiles
	BLINK	When there is an obstruction between the profiles

## BUZZER STATUS

SILENT	Device under normal operating conditions
DOUBLE BEEP	When there is an obstruction between the profiles for longer than 5s

## POTENTIOMETER IN DEVICE

The default power setting of the transmitter is 50%. A clockwise adjustment will increase the strength of the transmitting profile. Local conditions may require an adjustment of the transmitter.