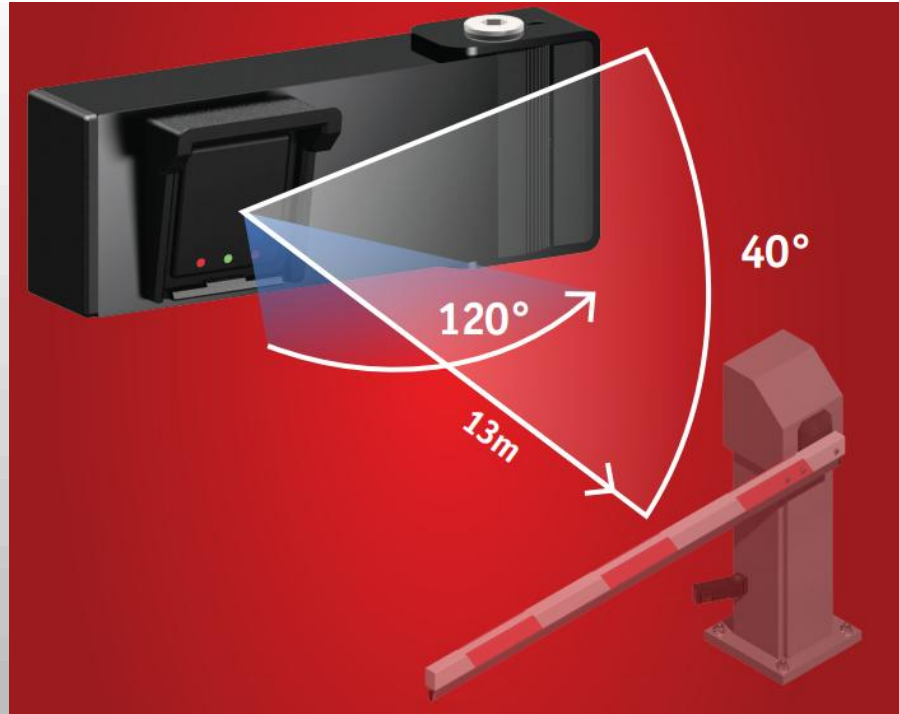


# Quick Setup Guide

## **LISENS** *scan* – Installation



# LISENS scan Kit contents

1 x Frame plugs end cap

2 x Sleeve nut flat head hexagon socket

1 x Metal bracket

1 x Radar unit with housing

2 x Socket head screw galvanized steel M5 x 6 mm

1 x Connection cable M8, coupling, straight, 4-polig

2 x Fixing round rod 5mm

1 x Radar frame 10°

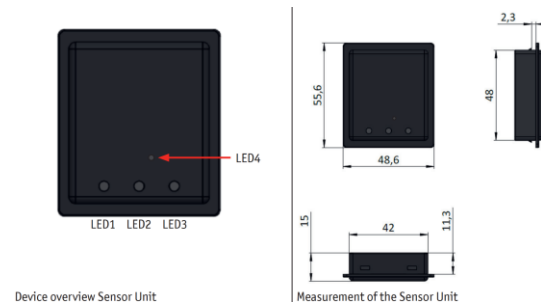
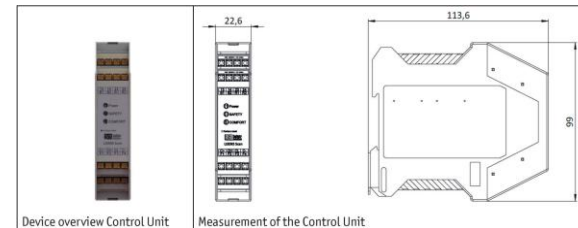
2 x Cylinder head screw galvanized M5 x 16 mm

2 x Galvanized washer, inside 5,3 mm

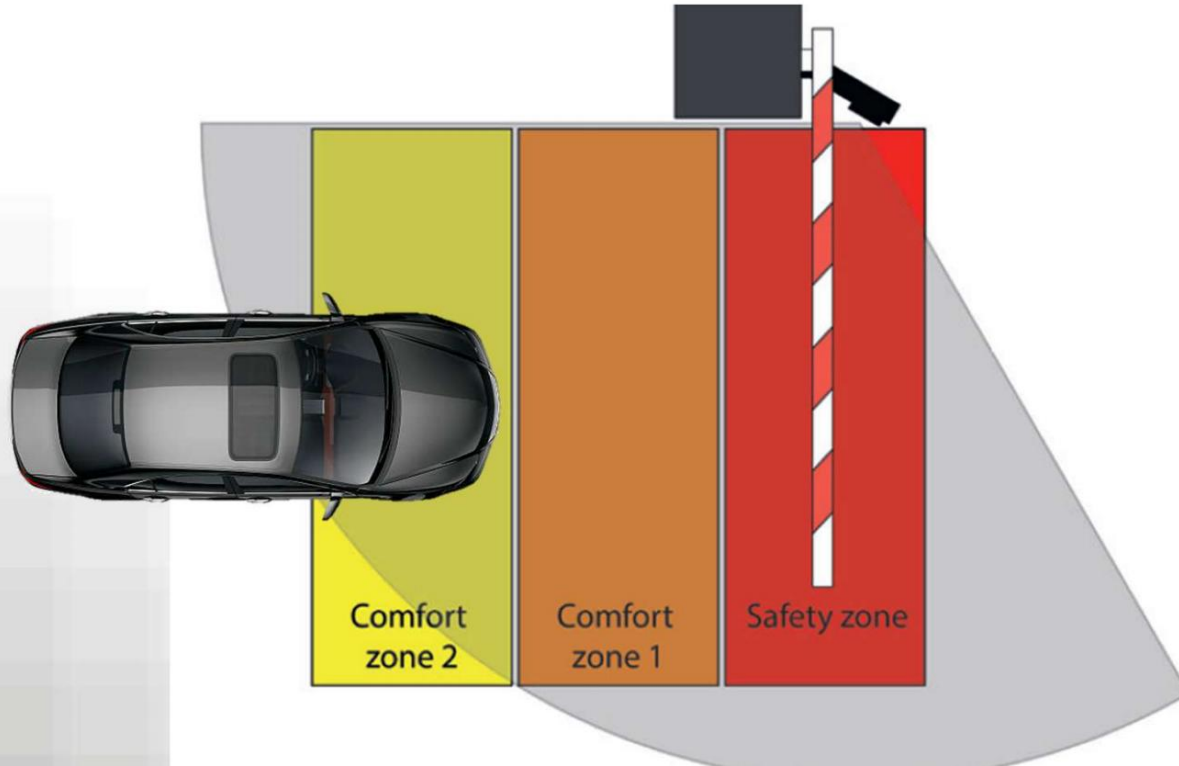
2 x Hexagon nut galvanized, M5

1 x Threaded bolt galvanized, M8 x 65 mm

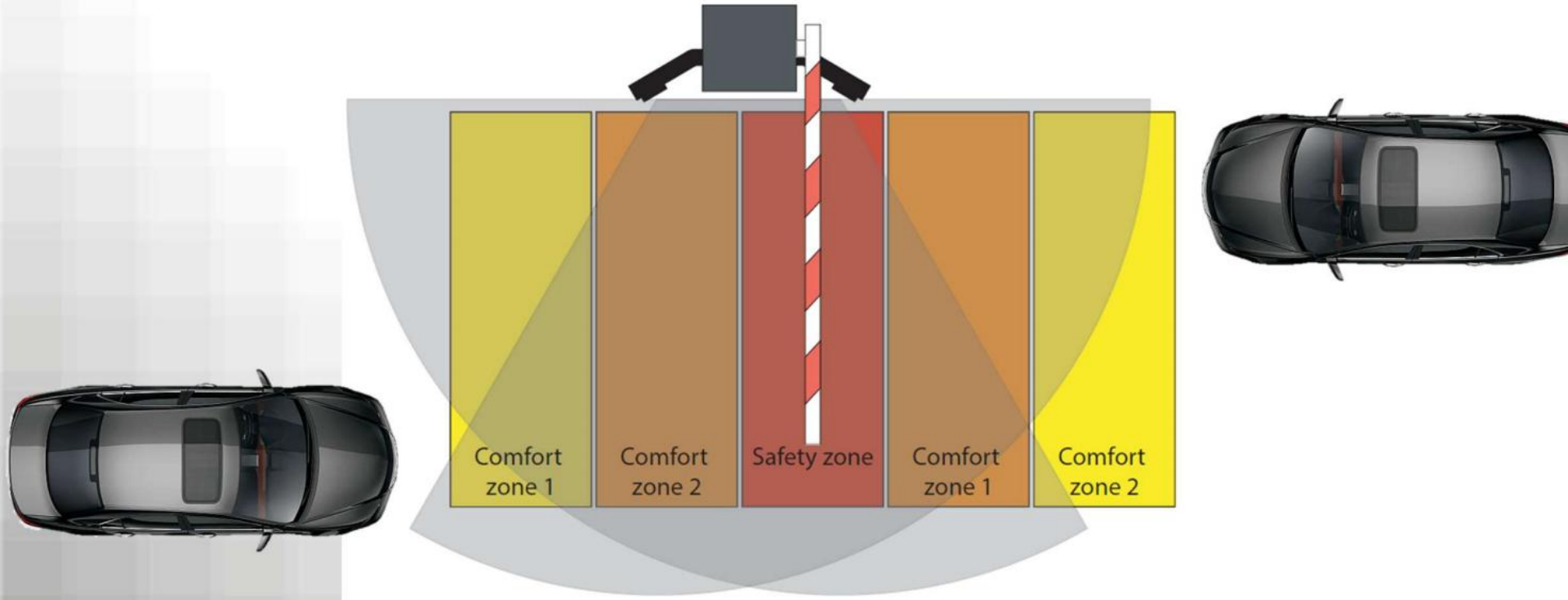
1 x Inlay mounting bracket



# Application scenario– Simple Entry-/Exit



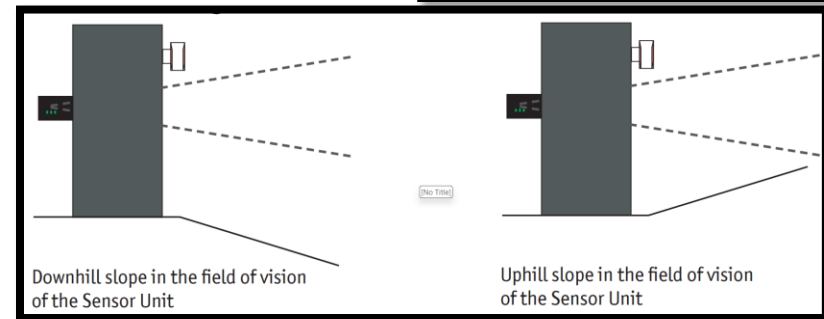
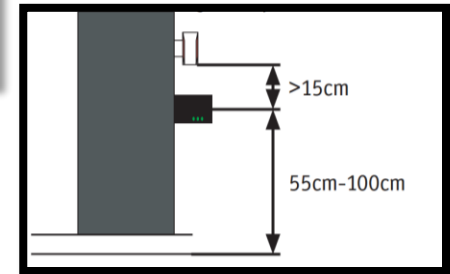
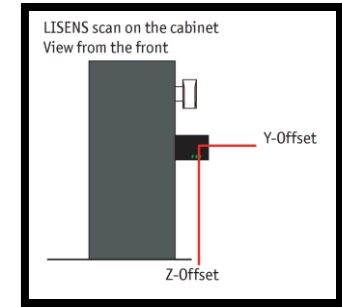
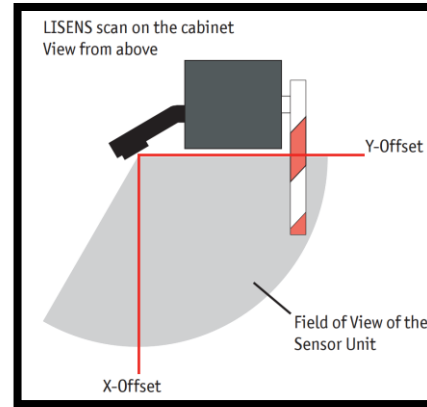
# Application scenario – Combined Entry/Exit



# Choose the correct fit ?

When choosing where to mount the sensor, consider :-

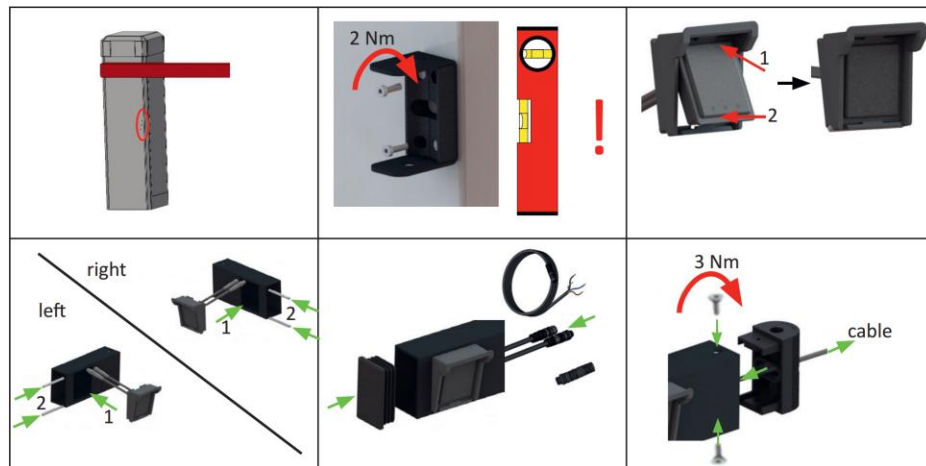
- Field of view width = **120 Degree's**
- Adjustable angle = **-40 to +40 Degree's**
- Field of view height = **40 Degree's**
- Available height = **55 to 100 cm**
- Gap to boom arm = **min. 15cm**
- Floor level = **Uneven, sloped ?**
- Is there a skirt = **min. 15 cm offset**
- Barrier casing = **Is it stable ? Door ? Snags ?**



# Mounting the Sensor & bracket

When fitting ensure:-

- Correct size holes drilled = **2 x M5**
- Cable hole drilled = **M6 – deburred**
- Bracket mount level = **check with spirit level**
- Tighten M5 screws = **ensure tight and solid**
- Secure sensor = **use 2 x dowels provided**
- Terminating resistor = **make sure fitted**
- End cap fitted = **ensure it's firmly secured**

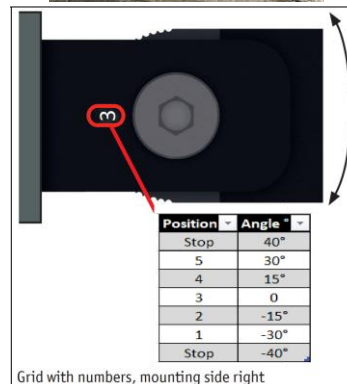
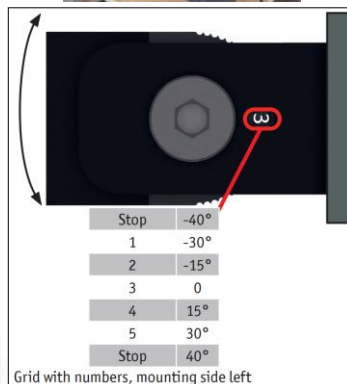


# Mounting the Sensor & bracket

## Adjust mounting angle:-

- The supplied bracket can be adjusted through angle's of -40 to +40 degree's.
- The small window at the top of the bracket shows a number (e.g."5" = +30 degree's)
- Once desired angle is reached, lock firmly into position using top/bottom bolts.
- Mounting options for left/right side of barrier.

*Note: the angle and field view of the sensor can be easily checked later in the "user Interface" setup.*



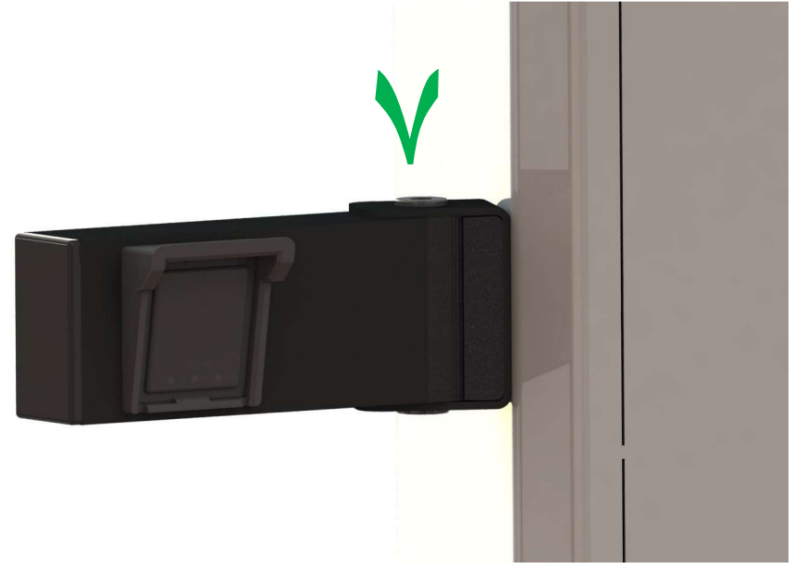
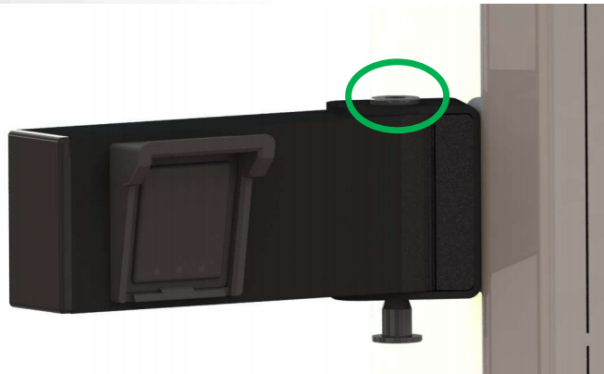
# Mechanical installation



| End stop | -40° |
|----------|------|
| 1        | -30° |
| 2        | -15° |
| 3        | 0°   |
| 4        | +15° |
| 5        | +30° |
| End stop | +40° |



# Mechanical installation



# Electrical Connection

Using the push terminals to connect:-

- Power B1/B2 = **10-30v DC or 14-26v AC**

**! Warning ! Do not exceed these limits !**

- Sensor connection cable = 4 wires

C+      CH      CL      C-

**Brown/white/black/blue**

*Note: The sensor cable can be extended for a maximum of 10 meters using suitable (at least 0.75mm) 4 core wire.*

Power supply



10-30V DC  
14-26,4V AC

Connection of sensor cable M8



# Electrical Connection

Using the push terminals to connect:-

- Safety zone relay's = **NC Output's**

**13,14 = Relay 1 – 23,24 = Relay 2**

*OR bridge 14,23 and use 13,24*

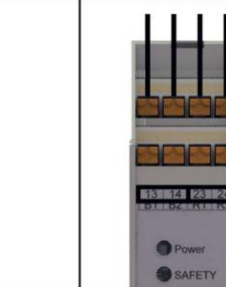
- Safety zone 8.2k = **8.2k Output**

**Connect = 13,24**

*Note: To use 8.2k output, simply bridge terminals 14,23 with supplied 8.2k resistor. The safety zone relays are current rated to 1A (30v DC) 1A (27v AC)*

## Electrical installation

### Potential free redundant safety relays (Safety Zone)

|                                                                                                  |                                                                                                                                               |                                                                                            |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| In variant 1, the two relays are connected in series, with terminal 14 connected to terminal 23. | In variant 2 an 8k2Ω resistor can be used instead of the bridge so that the device can also be connected to an 8k2 input of the Control Unit. | Variant 3 is for the case that each relay can be connected separately to the Control Unit. |
|               |                                                            |         |

\*NC in operating mode, NO at activated SZ

# Electrical Connection

Using the push terminals to connect:-

- Safety zone AUX = **NC/NO Selectable**

Connect = R1,R1

- 2 x Comfort Zone's = **NC/NO Selectable**

ZONE 1 = F1,F2

ZONE 2 = F3,F4

*Note: The safety zone AUX & Comfort zone relays are low voltage current only (max. 500mA, 30v DC).*

## Electrical installation

1x AUX Relay Safety Zone (SSR Potential free)



2x Relay Comfort Zones (SSR Potential free)

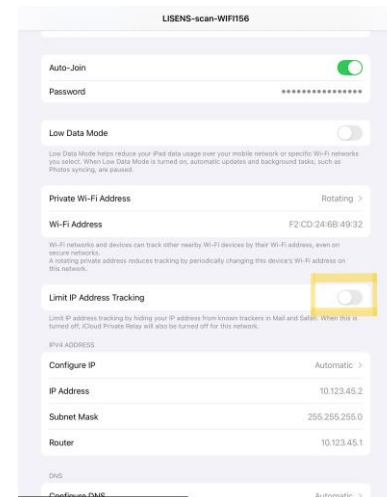
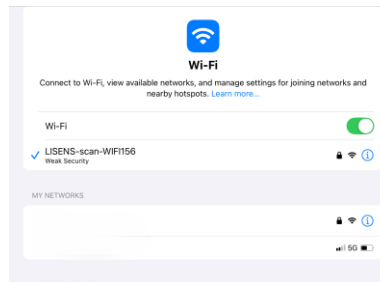
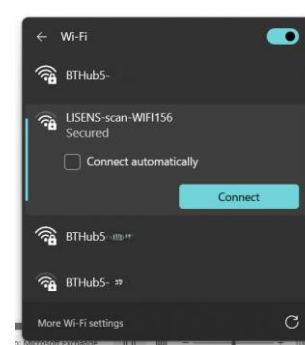


# Wi-Fi Connection

## Connect to Wi-Fi Hotspot:-

- Wi-Fi Hotspot SSID & Password = On label
- Apple devices uncheck “IP address tracking”
- For devices using VPN, disconnect first !

*Note: The Wi-Fi hotspot connection supports only one connection per session, simultaneous connections from multiple devices at the same time is not permitted. Make sure to disconnect an existing client before attempting to connect with another device. For Apple devices using iCloud private relay, the IP address tracking feature must be disabled for the Wi-Fi connection to the controller.*



# User Interface (embedded webserver)

Login to interface:-

- Open web browser on connected device
- Enter = <http://aso.net> (or just aso.net)
- Login username/password = On label

*Note: The interface is designed to work with popular web browser client's and devices. Some variations of the size of menu's/screen displayed will occur depending on the device used, this is due to screen resolution and browser configurations on the device connected.*



# User Interface

Click/press = “Sensor Configurations”

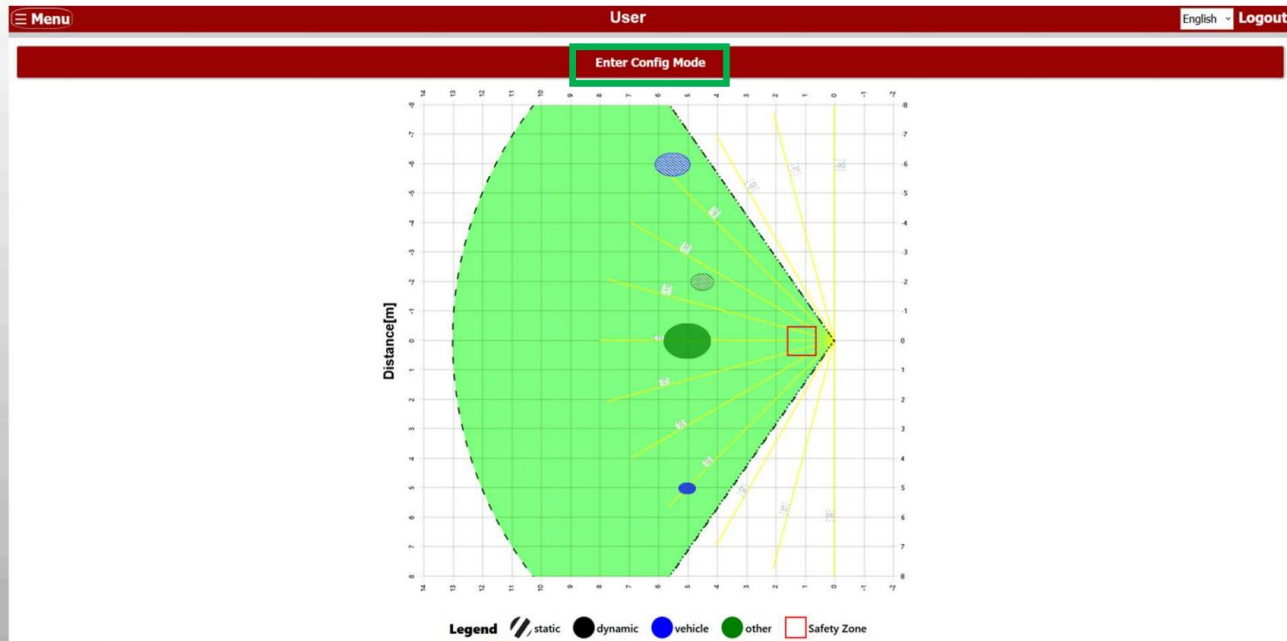
The screenshot displays the ASO Safety Solutions user interface. At the top, a dark red header bar contains the 'ASO Safety Solutions' logo on the left, the word 'User' in the center, and 'English' with a dropdown arrow and a 'Logout' button on the right. Below the header is a green horizontal bar. On the left side, a dark red sidebar menu lists four options: 'System Info', 'Sensor Configurations' (which is highlighted with a green border), 'WIFI Settings', and 'Change User Credentials'. The main content area is divided into two columns. The left column, titled 'Evaluation unit info', lists the following details: Serial number: Not defined, FW version: 1.8.2, Safety Output: SAFETY RELAYS, Revision: REV\_A, Comfort outputs: Defined, Barrier configuration: Defined, and Zones configuration: Defined. The right column, titled 'Sensor Info', lists: Serial number: (blank), FW version: 1.8.3, Environment Teach-In: No, Sensor Status: SENSOR ONLINE, and Sensor Config Status: SENSOR CONFIGURATION NOT SENT.

| User                                                                                                                                                                                                                                                 |                                                                                                                                                                                              | English ▾ Logout |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|                                                                                                                                                                                                                                                      |                                                                                                                                                                                              |                  |
| <b>System Info</b>                                                                                                                                                                                                                                   |                                                                                                                                                                                              |                  |
| <b>Sensor Configurations</b>                                                                                                                                                                                                                         |                                                                                                                                                                                              |                  |
| <b>WIFI Settings</b>                                                                                                                                                                                                                                 |                                                                                                                                                                                              |                  |
| <b>Change User Credentials</b>                                                                                                                                                                                                                       |                                                                                                                                                                                              |                  |
| <b>Evaluation unit info</b><br>Serial number:<br>Not defined<br>FW version:<br>1.8.2<br>Safety Output:<br>SAFETY RELAYS<br>Revision:<br>REV_A<br>Comfort outputs:<br>Defined<br>Barrier configuration:<br>Defined<br>Zones configuration:<br>Defined | <b>Sensor Info</b><br>Serial number:<br><br>FW version:<br>1.8.3<br>Environment Teach-In:<br>No<br>Sensor Status:<br>SENSOR ONLINE<br>Sensor Config Status:<br>SENSOR CONFIGURATION NOT SENT |                  |

# User Interface

Click/press = “Enter config mode”

This will start the setup process



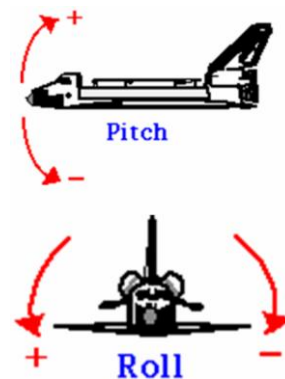
# User Interface

Click/press = “**Digital water level**” (Spirit Level)

Click/press = “**Update**” will show current angle alignment (pitch & roll)

**!WARNING!** : Ensure angle deviation is no more than -/+10 degree's maximum !.

Click/press = “**Deactivate**” then move to next section



## Digital Water Level

Pitch-Angle: -4.44° Roll-Angle: 0.9°

Update

# User Interface

Click/press = “Configuration of outputs”

Safety relays = enables outputs 13,14-23,24

Safety Aux Relay (SZ) = enables output R1,R2

Comfort relay 1 (CZ1) = enables output F1,F2

Comfort relay 2 (CZ2) = enables output F3,F4

Virtual loop detector = enables loop detector function

Then Save Selection

Save Selection

Note: Enable **ONLY** the functions you require for the installation in hand. The virtual loop detector function **MUST** be enabled to allow the comfort zones to function & activate the relay outputs F1,F2 & F3,F4 !.

Configuration of outputs

Safety output selection

Safety Relays ☐

Virtual loop detector ☐

Safety Aux Relay (SZ) ☐

Comfort relay 1 (CZ) ☐

Comfort relay 2 (CZ) ☐

Reload config Save Selection

# User Interface

## OPTIONAL - safety zone (SZ) AUX relay

Polarity = **NC** or **NO**

Signal type = **Permanent** or **pulse**

Object type = **Vehicle**, **other** or **both**

Active on = **Entering** or **Exiting** zone

*Note: The safety zone AUX relay can be enabled if required. To enable tick the box.*

*Object type defines “Vehicles” which are cars, trucks etc. & “Other” which are persons. This setting changes values for the AUX relay contact (R1,R2) ONLY and does not control the main safety relay output (13,14-23,24). This function can be used to send a close command once a vehicle has exited the Safety zone (SZ) for example.*

The image displays three screenshots of the 'Safety Aux Relay (SZ)' configuration interface, each with a checked 'Safety Aux Relay (SZ)' checkbox at the top right.

**Top Screenshot:** Shows the 'Polarity' dropdown set to 'NC', 'Signal Type' set to 'NO', and 'Object Type' set to 'Both'.

**Middle Screenshot:** Shows the 'Polarity' dropdown set to 'NC', 'Signal Type' set to 'Permanent', and 'Object Type' set to 'Permanent'.

**Bottom Screenshot:** Shows the 'Polarity' dropdown set to 'NC', 'Signal Type' set to 'Permanent', and 'Object Type' set to 'Both'.

To the right of these screenshots is a vertical list of settings:

- Polarity: NO
- Signal Type: Pulse
- Object Type: Both
- Active On: Entering Zone
- Selection of zone: Leaving Zone
- Moving through zone: Entering Zone

# User Interface

## Configure comfort zone 1 (Virtual Loop 1)

Tick box to enable ✓ (or leave unchecked if not used)

Polarity = **NC** or **NO**

Signal type = **Permanent** or **pulse**

Object type = **Vehicle**, **other** or **both**

Active on = **Entering** or **leaving** zone

Selection of zone = **CZ1** or **CZ2**

Moving through zone = **left/right** or **right/left**

*Note: Active on can be set to entering or leaving the zone to activate output. CZ1 or CZ2 can be selected to define which output is assigned to comfort zone 1. Moving through zone direction, is used to determine if the output should activate when entered from left or from right of sensor (inside or outside vehicle traffic for example).*

Comfort relay 1 (CZ) ☒

Polarity:

Signal Type:

Object Type:

Selection of zone:

Moving through zone:

Comfort relay 1 (CZ) ☒

Polarity:

Signal Type:

Object Type:

Selection of zone:

Moving through zone:

Comfort relay 1 (CZ) ☒

Polarity:

Signal Type:

Object Type:

Active On:

Selection of zone:

Moving through zone:

Moving through two zones:

Comfort relay 1 (CZ) ☒

Polarity:

Signal Type:

Object Type:

Selection of zone:

Moving through zone:

Comfort relay 1 (CZ) ☒

Polarity:

Signal Type:

Object Type:

Selection of zone:

Moving through zone:

Moving through two zones:

Comfort relay 1 (CZ) ☒

Polarity:

Signal Type:

Object Type:

Selection of zone:

Moving through zone:

Moving through two zones:

# User Interface

## Configure comfort zone 2 (Virtual Loop 2)

Tick box to enable ✓ (or leave unchecked if not used)

Polarity = **NC** or **NO**

Signal type = **Permanent** or **pulse**

Object type = **Vehicle**, **other** or **both**

Active on = **Entering** or **leaving** zone

Selection of zone = **CZ2** or **CZ1**

Moving through zone = **left/right** or **right/left**

*Note: Active on can be set to entering or leaving the zone to activate output. CZ2 or CZ1 can be selected to define which output is assigned to comfort zone 2. Moving through zone direction, is used to determine if the output should activate when entered from left or from right of sensor (inside or outside vehicle traffic for example).*

Comfort relay 1 (CZ) ☒

Polarity:

Signal Type:

Object Type:

Selection of zone:

Moving through zone:

Moving through zone:

Comfort relay 1 (CZ) ☒

Polarity:

Signal Type:

Object Type:

Selection of zone:

Moving through zone:

Moving through zone:

Comfort relay 1 (CZ) ☒

Polarity:

Signal Type:

Object Type:

Active On:

Selection of zone:

Moving through zone:

Moving through zone:

Moving through two zones:

Comfort relay 1 (CZ) ☒

Polarity:

Signal Type:

Object Type:

Selection of zone:

Moving through zone:

Moving through zone:

Comfort relay 1 (CZ) ☒

Polarity:

Signal Type:

Object Type:

Selection of zone:

Moving through zone:

Moving through two zones:

Moving through two zones:

Comfort relay 1 (CZ) ☒

Polarity:

Signal Type:

Object Type:

Selection of zone:

Moving through zone:

Moving through two zones:

Moving through two zones:

# User Interface

## Comfort Zones (Virtual loops) extra function

Zone sequencing = Can be used to enable the function of only activating the output once a vehicle or person has passed between zones in a chosen pattern (e.g. Zone 2 then Zone 1)

To enable = Select “active” in comfort relay 1 & 2

Then = Select the sequence desired for both zones

*Note: This function is typically used in scenarios where vehicles are required to drive through one zone into another before the traffic barrier is allowed to operate (e.g. car park barrier ticketing machine or ANPR function or tailgating prevention).*

*The function can ONLY be used when both Comfort relay 1 and Comfort relay 2 are enabled and configured.*

The image displays two screenshots of the Comfort Zones configuration interface, showing settings for Comfort relay 1 (CZ) and Comfort relay 2 (CZ).

**Top Screenshot:**

- Comfort relay 1 (CZ) is enabled (checked).
- Comfort relay 2 (CZ) is enabled (checked).
- Polarity: NO
- Signal Type: Pulse
- Object Type: Both
- Active On: Entering Zone
- Moving through two zones: ACTIVE
- Sequence between zones: ACTIVE

**Bottom Screenshot:**

- Comfort relay 1 (CZ) is enabled (checked).
- Comfort relay 2 (CZ) is enabled (checked).
- Polarity: NO
- Signal Type: Pulse
- Object Type: Both
- Active On: Entering Zone
- Moving through two zones: ACTIVE
- Sequence between zones: CZ2 -> CZ1

# User Interface

Configuration of outputs, final step.

Once all output settings are done be sure to click/press

**Save Selection**

*Note: If any settings are incorrect or you need to reset back to default you can simply click/press*

**Reload config**

The screenshot shows a web interface titled "Configuration of outputs" with a dark red header. Below the header, there are several configuration sections. At the top left, there is a "Safety output selection" section with a "Safety Relays" checkbox. Below that is a "Virtual loop detector" section with a checkbox. The main area contains three columns of settings, each with a checkbox and a set of dropdown menus. The first column is for "Safety Aux Relay (SZ)", the second for "Comfort relay 1 (CZ)", and the third for "Comfort relay 2 (CZ)". Each column has dropdowns for "Polarity" (set to "NO"), "Signal Type" (set to "Permanent" for SZ and "Pulse" for CZ), "Object Type" (set to "Vehicle"), "Active On" (set to "Entering Zone"), and "Sequence between zones" (set to "CZ2 -> CZ1"). At the bottom of the interface, there are two red buttons: "Reload config" and "Save Selection".

| Configuration Section   | Checkbox                 | Polarity | Signal Type | Object Type | Active On     | Sequence between zones |
|-------------------------|--------------------------|----------|-------------|-------------|---------------|------------------------|
| Safety output selection | <input type="checkbox"/> |          |             |             |               |                        |
| Virtual loop detector   | <input type="checkbox"/> |          |             |             |               |                        |
| Safety Aux Relay (SZ)   | <input type="checkbox"/> | NO       | Permanent   | Vehicle     | Entering Zone |                        |
| Comfort relay 1 (CZ)    | <input type="checkbox"/> | NO       | Pulse       | Vehicle     | Entering Zone | CZ2 -> CZ1             |
| Comfort relay 2 (CZ)    | <input type="checkbox"/> | NO       | Pulse       | Vehicle     | Entering Zone | CZ2 -> CZ1             |

**Reload config** **Save Selection**

# User Interface

Click/press = “Configuration of barrier parameters”

Enter barrier boom length = 0-1200cm

Tick “Skirt” = If barrier has skirt

Enter “Strut gap’s” = 0-1000mm \*mm not cm\*

Tick “Pendulum” = If barrier has pendulum/pogo

Enter “Pendulum position” = 0-1200cm

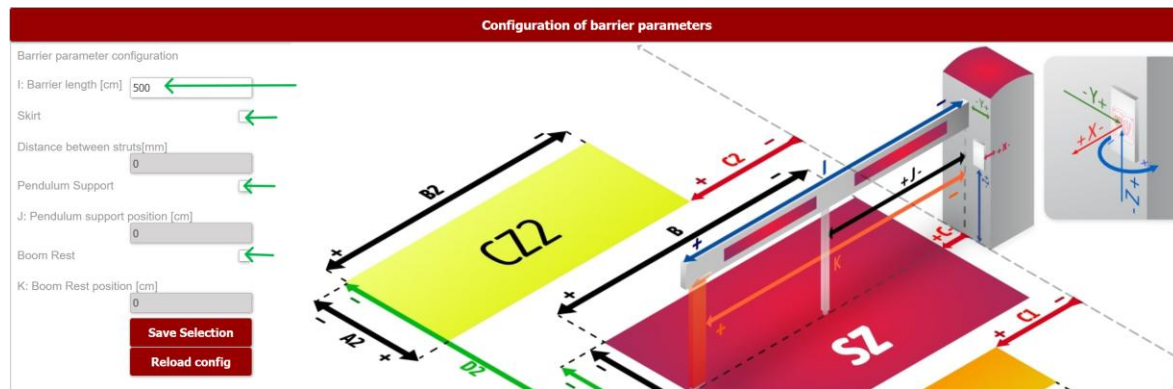
Tick “boom rest” = If barrier has boom rest

Enter “rest position” = 0-1200cm

Then Save Selection

Save Selection

*Note: Only enable the functions you require for the installation in hand. If no skirt, pendulum or boom rest are fitted don't enable. Pendulum cannot be combined with skirt function.*



# User Interface

Click/press = “Configuration of sensor position”

X: = Values (-200 to 200cm) from barrier housing

Y: = Values (-200 to 200cm) from Boom

Z: = Values (55 to 100cm) from ground

Z Angle: = Values (-40 to +40 Degree's) rotation

Then Save Selection

Save Selection

*Note: It is important to accurately measure the distances to ensure the safety zone is configured correctly in relation to the position of the sensor and barrier boom.*

*X: & Y: value ranges are quite large to allow for situations where the sensor may be mounted separately to the housing (e.g. on a post or other fixed object near to the barrier).*

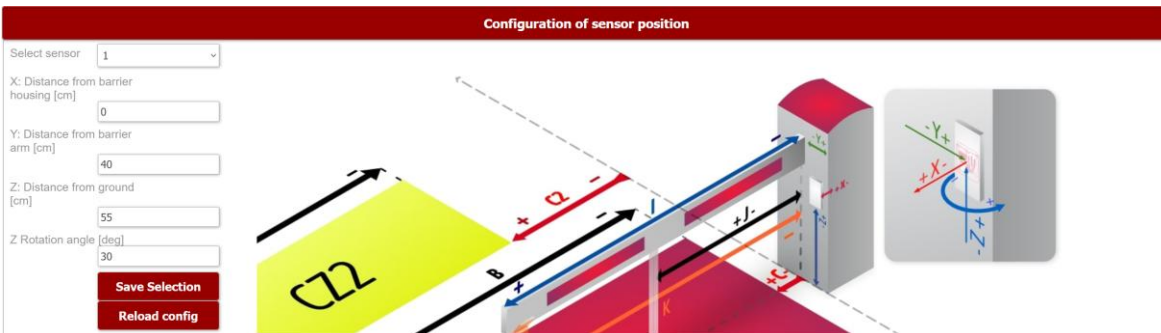
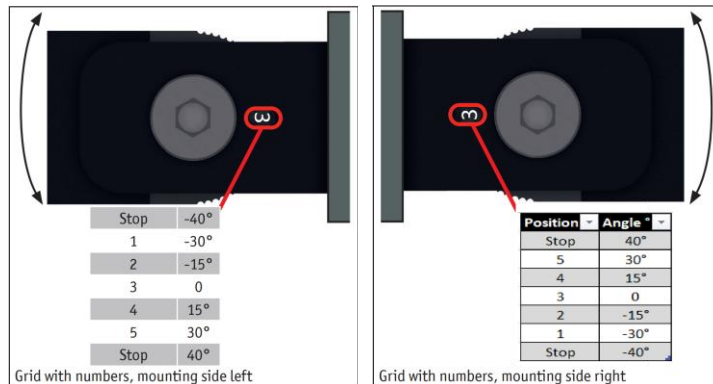


Diagram of angle's (Z+/-)



# User Interface

Click/press = “Configuration of zones”

Configure Safety zone values SZ (see diagram)

A: = Values (0 to 1200cm) zone width

B: = Values (0 to 1200cm) zone length

C: = Values (-200 to 200cm) offset from housing

D: = Values (-200 to 200cm) offset from Center \*

\* - Value D: defines the offset of the safety zone from the Center line beneath the boom (e.g. -100 would move 100cm of the 200cm width set behind the Center line = 100cm either side of the boom).

Then Save Selection

Save Selection

Note: Value C: can be used to provide an offset if required, which may be useful if the field of view of the sensor is limited by its position in relation to the housing.

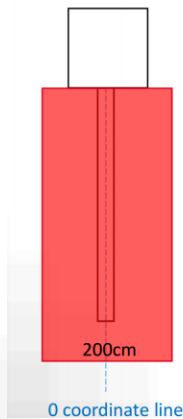
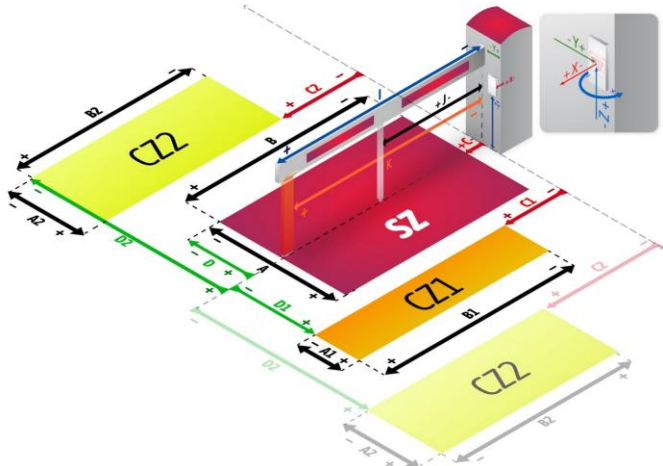
Configuration of zone(s)

Safety and Comfort zone configuration

|                                 |     |
|---------------------------------|-----|
| A: Safety zone width (SZ) [cm]  | 200 |
| B: Safety zone length (SZ) [cm] | 500 |
| C: Offset Safety zone (SZ) [cm] | 0   |
| D: Offset Safety zone (SZ) [cm] | 100 |

A1: Comfort Zone 1 width (CZ1) [cm] 100  
B1: Comfort Zone 1 length (CZ1) [cm] 500  
C1: Offset Comfort Zone 1 (CZ1) [cm] 0  
D1: Offset Comfort Zone 1 (CZ1) [cm] 200  
A2: Comfort Zone 2 width (CZ2) [cm] 200  
B2: Comfort Zone 2 length (CZ2) [cm] 500  
C2: Offset Comfort Zone 2 (CZ2) [cm] 0  
D2: Offset Comfort Zone 2 (CZ2) [cm] 300

Reload config Save Selection



Safety and Comfort zone configuration

|                                 |      |
|---------------------------------|------|
| A: Safety zone width (SZ) [cm]  | 200  |
| B: Safety zone length (SZ) [cm] | 800  |
| C: Offset Safety zone (SZ) [cm] | 0    |
| D: Offset Safety zone (SZ) [cm] | -100 |

# User Interface

## Configure Comfort zone 1 CZ1 (see diagram)

A1: = Values (0 to 1200cm) zone width

B1: = Values (0 to 1200cm) zone length

C1: = Values (-1000 to 1000cm) offset from housing

D1: = Values (-1000 to 1000cm) offset from Center \*

\* - Value D1: defines the offset of the comfort zone 1 from the Center line beneath the boom (e.g. 200 would move the defined zone starting position to 200cm to the right of the boom center line).

Then Save Selection

**Save Selection**

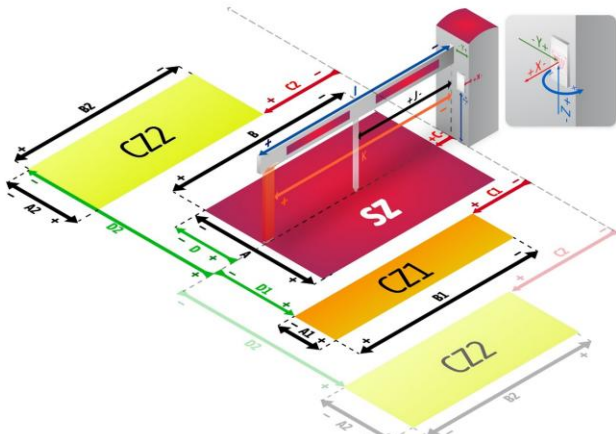
*Note: Value C1: can be used to provide an offset if required, which may be useful if the field of view of the sensor is limited by its position in relation to the zone position.*

Configuration of zone(s)

Safety and Comfort zone configuration

|                                      |                                  |
|--------------------------------------|----------------------------------|
| A: Safety zone width (SZ) [cm]       | <input type="text" value="200"/> |
| B: Safety zone length (SZ) [cm]      | <input type="text" value="500"/> |
| C: Offset Safety zone (SZ) [cm]      | <input type="text" value="0"/>   |
| D: Offset Safety zone (SZ) [cm]      | <input type="text" value="100"/> |
| A1: Comfort Zone 1 width (CZ1) [cm]  | <input type="text" value="100"/> |
| B1: Comfort Zone 1 length (CZ1) [cm] | <input type="text" value="500"/> |
| C1: Offset Comfort Zone 1 (CZ1) [cm] | <input type="text" value="0"/>   |
| D1: Offset Comfort Zone 1 (CZ1) [cm] | <input type="text" value="200"/> |
| A2: Comfort Zone 2 width (CZ2) [cm]  | <input type="text" value="200"/> |
| B2: Comfort Zone 2 length (CZ2) [cm] | <input type="text" value="500"/> |
| C2: Offset Comfort Zone 2 (CZ2) [cm] | <input type="text" value="0"/>   |
| D2: Offset Comfort Zone 2 (CZ2) [cm] | <input type="text" value="300"/> |

**Reload config** **Save Selection**



# User Interface

## Configure Comfort zone 2 CZ2 (see diagram)

A2: = Values (0 to 1200cm) zone width

B2: = Values (0 to 1200cm) zone length

C2: = Values (-1000 to 1000cm) offset from housing

D2: = Values (-1000 to 1000cm) offset from Center \*

\* - Value D2: defines the offset of the comfort zone 2 from the Center line beneath the boom (e.g. 300 would move the defined zone starting position to 300cm to the right of the boom center line).

Then Save Selection

Save Selection

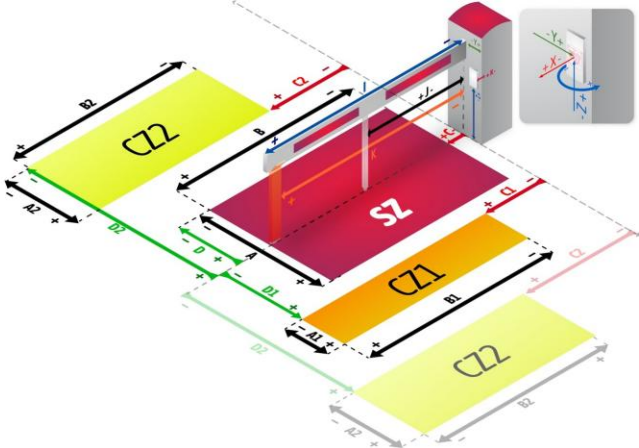
*Note: Value C2: can be used to provide an offset if required, which may be useful if the field of view of the sensor is limited by its position in relation to the zone position.*

Configuration of zone(s)

Safety and Comfort zone configuration

|                                      |     |
|--------------------------------------|-----|
| A: Safety zone width (SZ) [cm]       | 200 |
| B: Safety zone length (SZ) [cm]      | 500 |
| C: Offset Safety zone (SZ) [cm]      | 0   |
| D: Offset Safety zone (SZ) [cm]      | 100 |
| <hr/>                                |     |
| A1: Comfort Zone 1 width (CZ1) [cm]  | 100 |
| B1: Comfort Zone 1 length (CZ1) [cm] | 500 |
| C1: Offset Comfort Zone 1 (CZ1) [cm] | 0   |
| D1: Offset Comfort Zone 1 (CZ1) [cm] | 200 |
| <hr/>                                |     |
| A2: Comfort Zone 2 width (CZ2) [cm]  | 200 |
| B2: Comfort Zone 2 length (CZ2) [cm] | 500 |
| C2: Offset Comfort Zone 2 (CZ2) [cm] | 0   |
| D2: Offset Comfort Zone 2 (CZ2) [cm] | 300 |

Reload config Save Selection



# User Interface

Click/press = “Visualization of sensor & zone position”

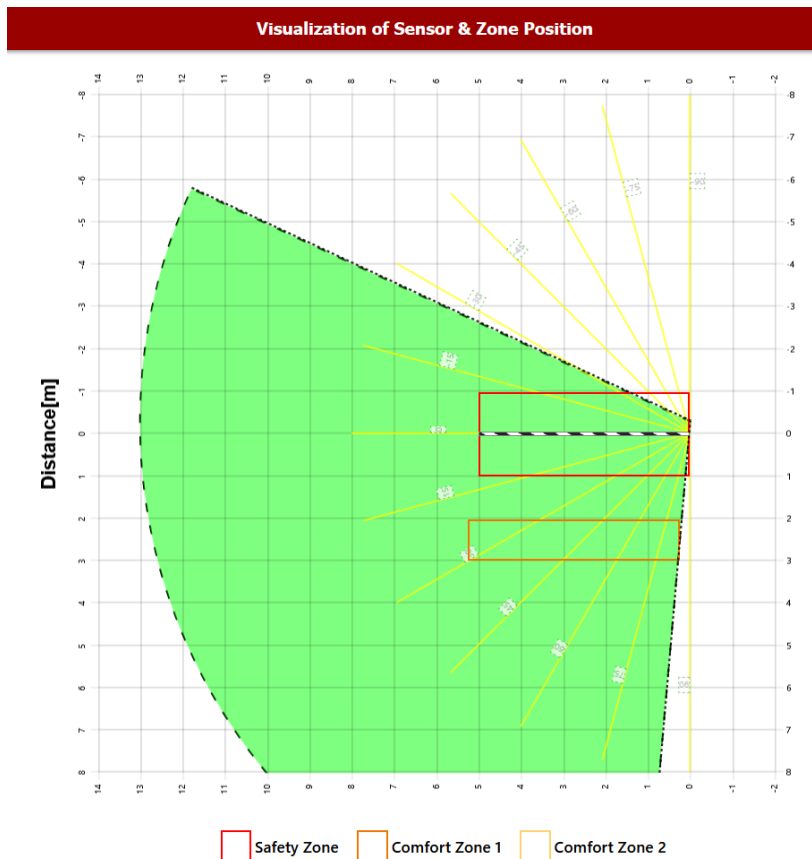
This section shows a visual representation of the values you have entered in the setup process. This can be used to determine if all values entered relate to the installation in hand.

Ensure the active field of view (green area) is correctly positioned and covers the area required.

Ensure the red “safety zone” and sensor are positioned correctly.

Ensure that “comfort zones” are positioned correctly.

*Note: If the position or size of any zone or the sensor are incorrect, simply go back to the menu settings and alter them and save then check the position visualization again.*



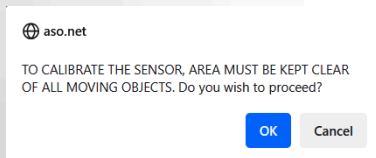
# User Interface

## Completing setup

Once you are happy with the visualization of the zones and sensor position click/press “exit config” at the top of the screen.

**Exit Config Mode**

The below message will be displayed, ensure the area is clear from unexpected static or moving objects.



Calibration takes around 5 seconds to complete.

*Note: Once calibration is complete, the screen will revert and show a target map screen. Click/press on “get targets” to enable a live radar view of the area. This can now be used to test that the system functions as expected. Check activation of relays and zones to ensure they function as desired for the selected type of detection (e.g. vehicle only, other or both).*

