Product Information
LISENS *scan* – What is it ?

- New Non-Contact Safety Radar System

- Developed in house (controller)

- Utilises industry proven FMCW radar
  Applicable to Doors/Gates/Barriers

- Can replace safety edges, PEC, Loops

Two versions will be launched:-

- "Comfort" (EN12453 Type D) – Loops/PEC's

- "Safety" (EN12453 Type E) – Full SAFETY

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Key benefits of LISENS scan

0.4 – 13 Meters Range

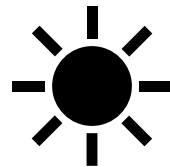Up to 6 Sensors Per System (with 1 Controller)

Wi-Fi Configuration on-board

Webserver interface (not limited to smartphone's)

Insensitive to all weather conditions

Works with skirts & pendulum supports

Product Information
LISENS *scan* – Information at a glance

Specification	
Sensors in series connection	Up to 6
Detection zone	13m detection zone (120° Spread, 40° Elevation)
Safety Outputs	2 (Dual output contacts, 2 relays)
Safety Output type	8k2/FSS (semiconductor, self tested)
Comfort Outputs	Up to 3 relays
Comfort Outputs type	Solid State Relay (configurable NO/NC)
Safety Category	(EN 12453 Type "D" – Comfort version / "E" Safety version)
Performance Level	PL D, cat2, self-testing
Safety Integrity Level	SIL2
Reaction Time	Max. 100ms
Supply Voltage	10-30V DC or 14-26.4V AC

Functional Diagram

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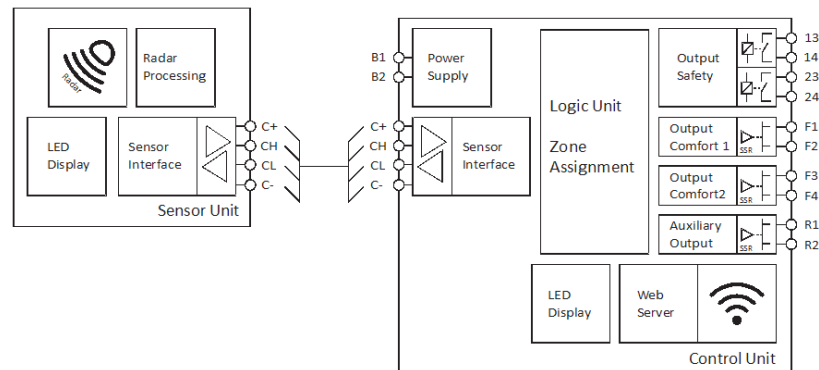
LISENS *scan* – Sensor
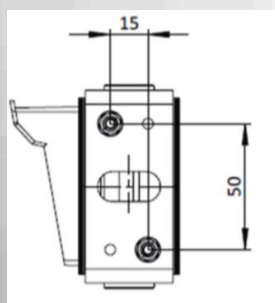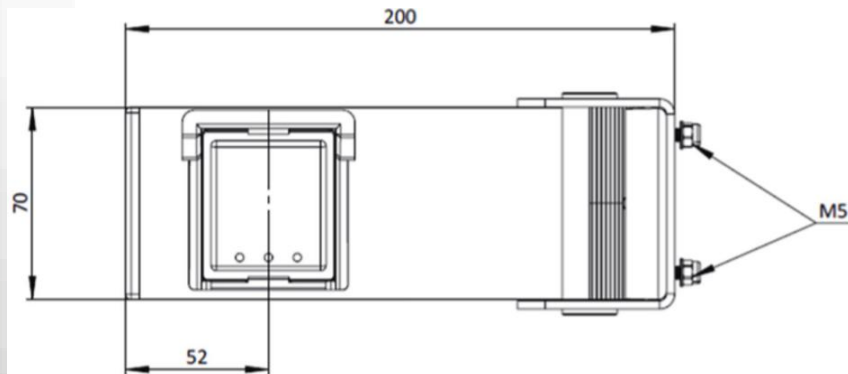
M8 Male	Connection to Control Unit
M8 Female	Connection to additional sensor/End Terminator

Power   SAFETY   Warning

LISENS *scan* – Controller (Comfort Type D Version)

13	14	23	24
B1	B2	R1	R2

🟢 Power

🟢 SAFETY

🟢 Warning

C+	CH	CL	C-
F1	F2	F3	F4

Control Unit
DIN rail mount

| 13	Safety Zone Relay 1 – 8K2/FSS
14	Safety Zone Relay 1 – 8K2/FSS
23	Safety Zone Relay 2 – 8K2/FSS
24	Safety Zone Relay 2 – 8K2/FSS
B1	Power Supply +
B2	Power Supply -
R1	AUX Relay (Safe Zone) NC/NO
R2	AUX Relay (Safe Zone) NC/NO
C+	CAN connection Sensor
CH	CAN connection Sensor
CL	CAN connection Sensor
C-	CAN connection Sensor
F1	Comfort Zone 1 Relay – NC/NO
F2	Comfort Zone 1 Relay – NC/NO
F3	Comfort Zone 2 Relay – NC/NO
F4	Comfort Zone 2 Relay – NC/NO

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How is it setup ?
Web Interface through Wi-Fi HotSpot – Any Wi-Fi enabled device

- Traffic barrier (Example)

- Safety zone width = Size in cm

- Safety zone length = Size in cm

- Barrier arm length = Size in cm

- Virtual loop 1 CZ 1 = Size & gap in cm

- Virtual loop 2 CZ 2 = Size & gap in cm

- **Skirt length & gap's = in cm**

- Once all details input, run calibration

- Setup complete !
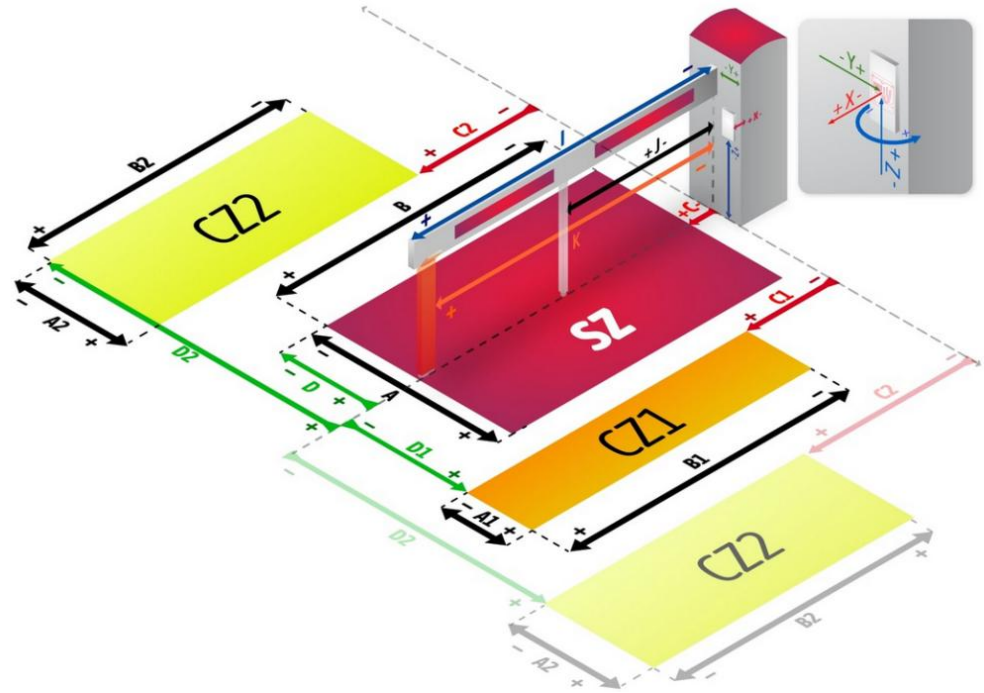
Example Installations

Adaptable to many scenarios !
Single & Multiple Sensors – Skirts +
Pendulum Supports
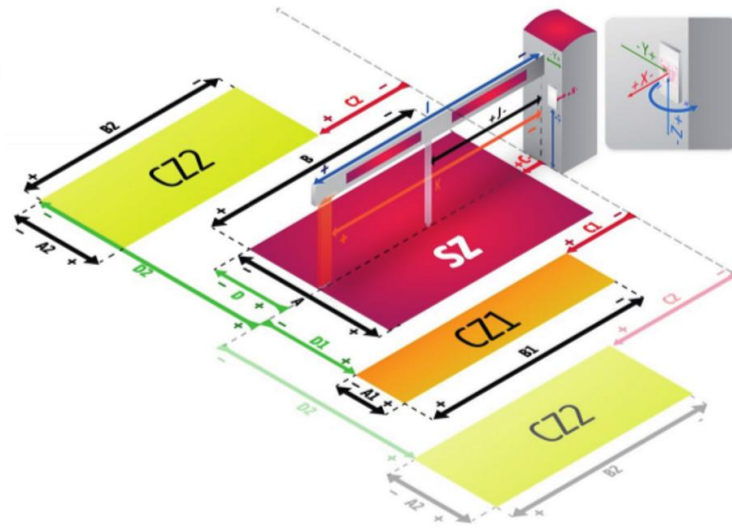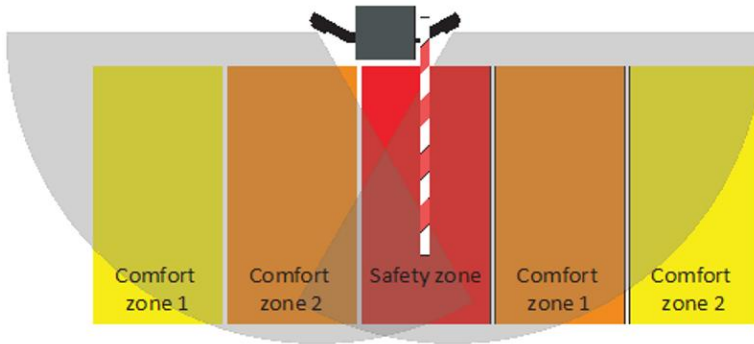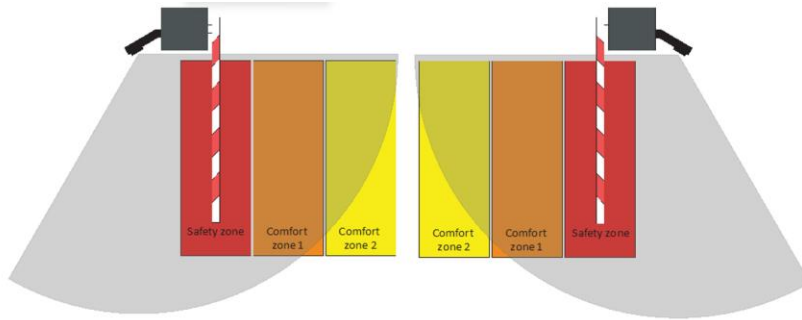
LISENS scan – Ordering Information

Planned availability:

Comfort version – June 2025

Safety version – Estimated Q4 2025

Useful web links:-

Product page :
https://www.asosafety.co.uk/products/radar/index.htm

Info Flyer :
https://www.asosafety.co.uk/fileadmin/user_upload/downloads/pdfs/LISENS_scan_benefits.pdf

Ordering Information LISENS scan (Comfort-Version)	
Article no.	Description
2302-0300	LISENS scan CA-B-Set 1, 1 sensor,bracket & control unit (EN12453 Type D)
2302-0310	LISENS scan SUC1-1240E, sensor inc. bracket (Type D)
2302-0320	LISENS scan CUC2-2BA, control unit "comfort version"

Ordering Information LISENS scan (Safety-Version)	
Article no.	Description
2302-0350	LISENS scan CC1-B-Set 1, 1 sensor,bracket & control unit (EN12453 Type E)
2302-0330	LISENS scan SUC2-1240E, sensor inc. bracket (Type E)
2302-0340	LISENS scan CUC2-2BC1, control unit "safety version"

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