



INXPECT SAFETY RADAR EQUIPMENT

Product brochure



INXPECT SAFETY RADAR EQUIPMENT

Industrial safety at its best: Inxpect safety radars detect access or presence of operators in dangerous areas and also have the ability to dynamically set the detection and warning zones.

Safety functions:



ACCESS PROTECTION

If the operator moves closer to the dangerous area, it places machinery in a safe state.



RESTART PREVENTION

It prevents machinery from restarting while operators are in the dangerous area.

RESISTANT TO DISTURBANCES

DEBRIS



Inxpect Safety Radar Sensors are immune not only to **light, smoke, dust** and **debris**, but also to **rain** (rainfall rate up to 45 mm/h).



Inxpect works where optical sensors stop. **High safety without compromising productivity.**

SPARKS



RAIN

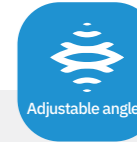
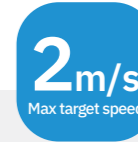
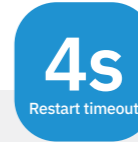
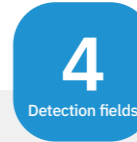


DUST



5m RANGE SENSORS

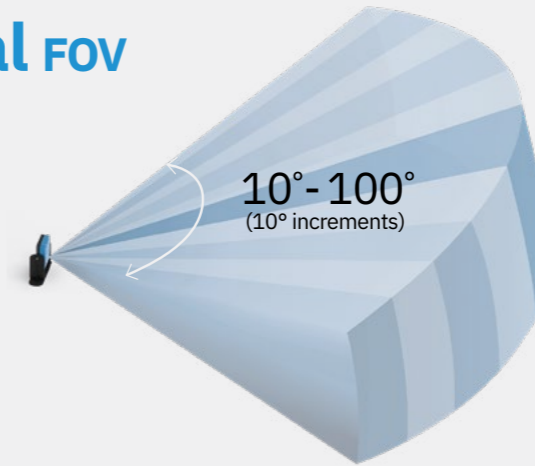
FOV shapes



Symmetrical FOV

Available on:

S201A
S201A-W
S203A-W

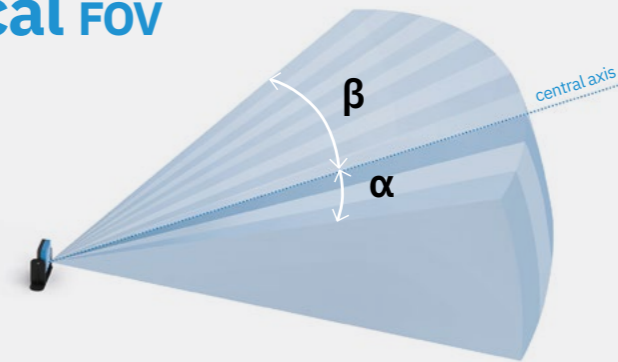


Freely adjustable angles:
Horizontal Plane: 10°-100°

Asymmetrical FOV

Available on:

S201A-W
S203A-W



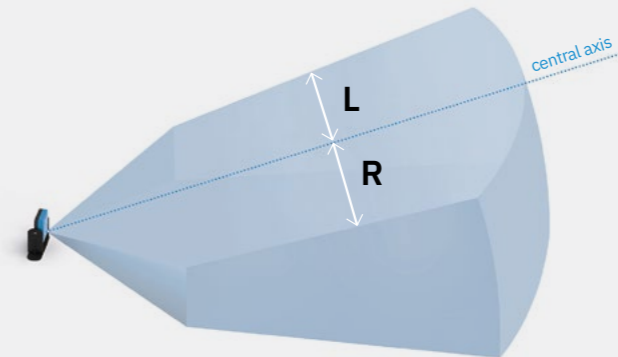
Freely adjustable angles:
Horizontal Plane: 10°-100°

$\alpha \neq \beta$
 α : 0°-50° β : 0°-50°

Corridor FOV

Available on:

S201A-W
S203A-W

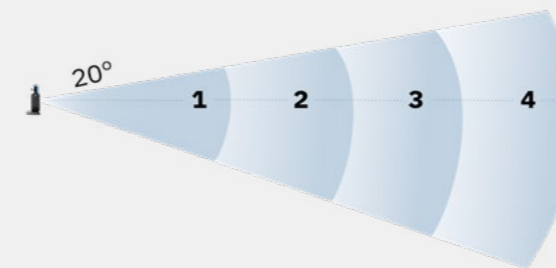


Freely adjustable widths:
Width: 20-800 cm

$L \neq R$
L: 0-400 cm R: 0-400 cm

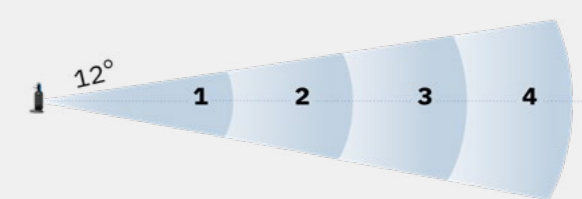
Vertical Plane: 20°

Available on: S201A, S201A-W



Vertical Plane: 12°

Available on: S203A-W



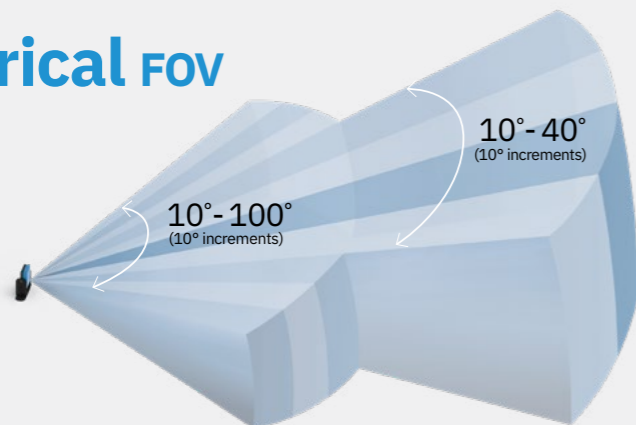
9m RANGE SENSORS

FOV shapes

- 4** Detection fields
- 4s** Restart timeout
- 4m/s** Max target speed
- Adjustable angles
- RCS** Selectable

Symmetrical FOV

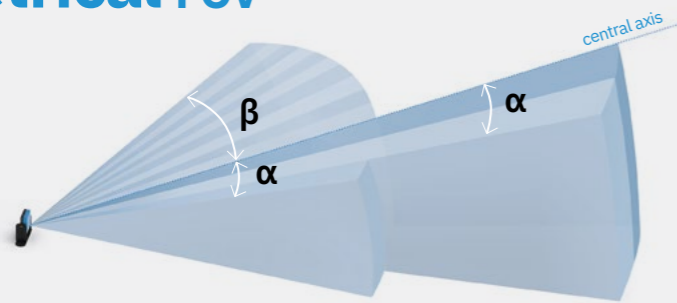
Available on:
S201A-MLR
S201A-WL
S203A-WL



Freely adjustable angles:
Horizontal Plane: 10°-100° [0-5m]
10°-40° [5-9m]

Asymmetrical FOV

Available on:
S201A-WL
S203A-WL

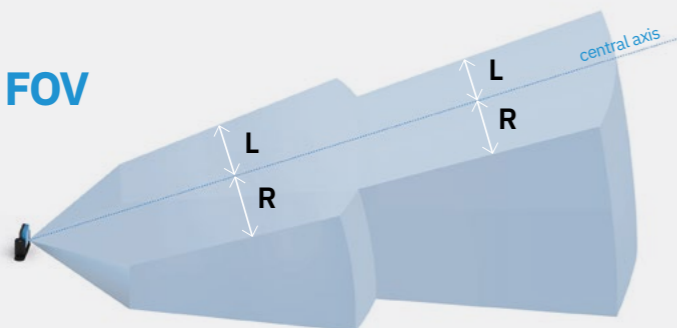


Freely adjustable angles:
Horizontal Plane: 10°-100° [0-5m]
10°-40° [5-9m]

$\alpha \neq \beta$
 α : 0°-50° β : 0°-50° [0-5m]
 α : 0°-20° β : 0°-20° [5-9m]

Corridor FOV

Available on:
S201A-WL
S203A-WL

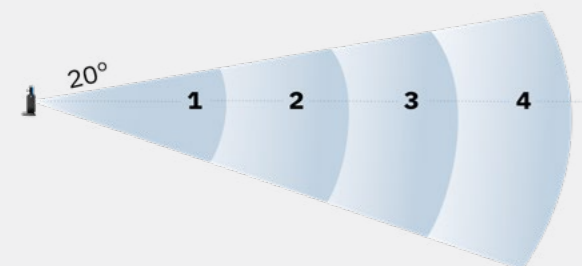


Freely adjustable widths:
Width: 20-800 cm [0-5m]
30-800 cm [5-9m]

$L \neq R$
L: 0-400 cm R: 0-400 cm

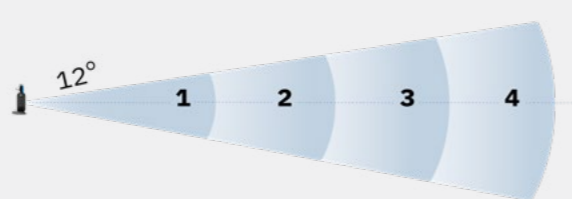
Vertical Plane: 20°

Available on: S201A-MLR, S201A-WL



Vertical Plane: 12°

Available on: S203A-WL



RADAR SENSORS

Which smart sensor fits my needs?



		Vertical angular coverage	FOV	Max target speed	Min settable distance	Settable RCS
4M RANGE	S101A	Wide 30° Narrow 15°	Symmetrical	1,6 m/s	1 m	-
	S201A	20°	Symmetrical	2 m/s	0.5 m	-
5M RANGE	S201A-W	20°	Advanced	2 m/s	0.2 m	-
	S203A-W	12°	Advanced	2 m/s	0.2 m	-
	S201A-MLR	20°	Symmetrical	4 m/s	0.5 m	✓
9M RANGE	S201A-WL	20°	Advanced	4 m/s	0.2 m	✓
	S203A-WL	12°	Advanced	4 m/s	0.2 m	✓

CONTROL UNITS

Which control unit fits my needs?



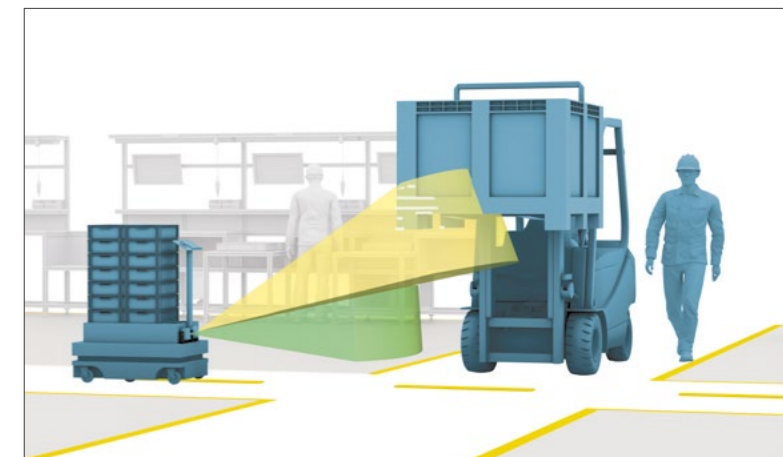
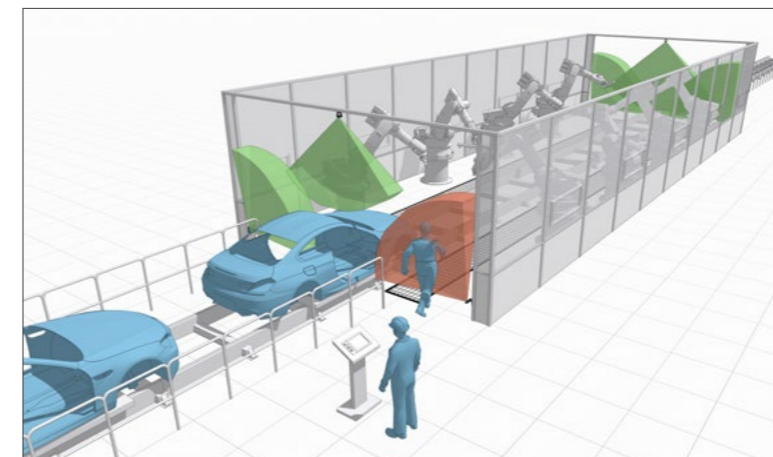
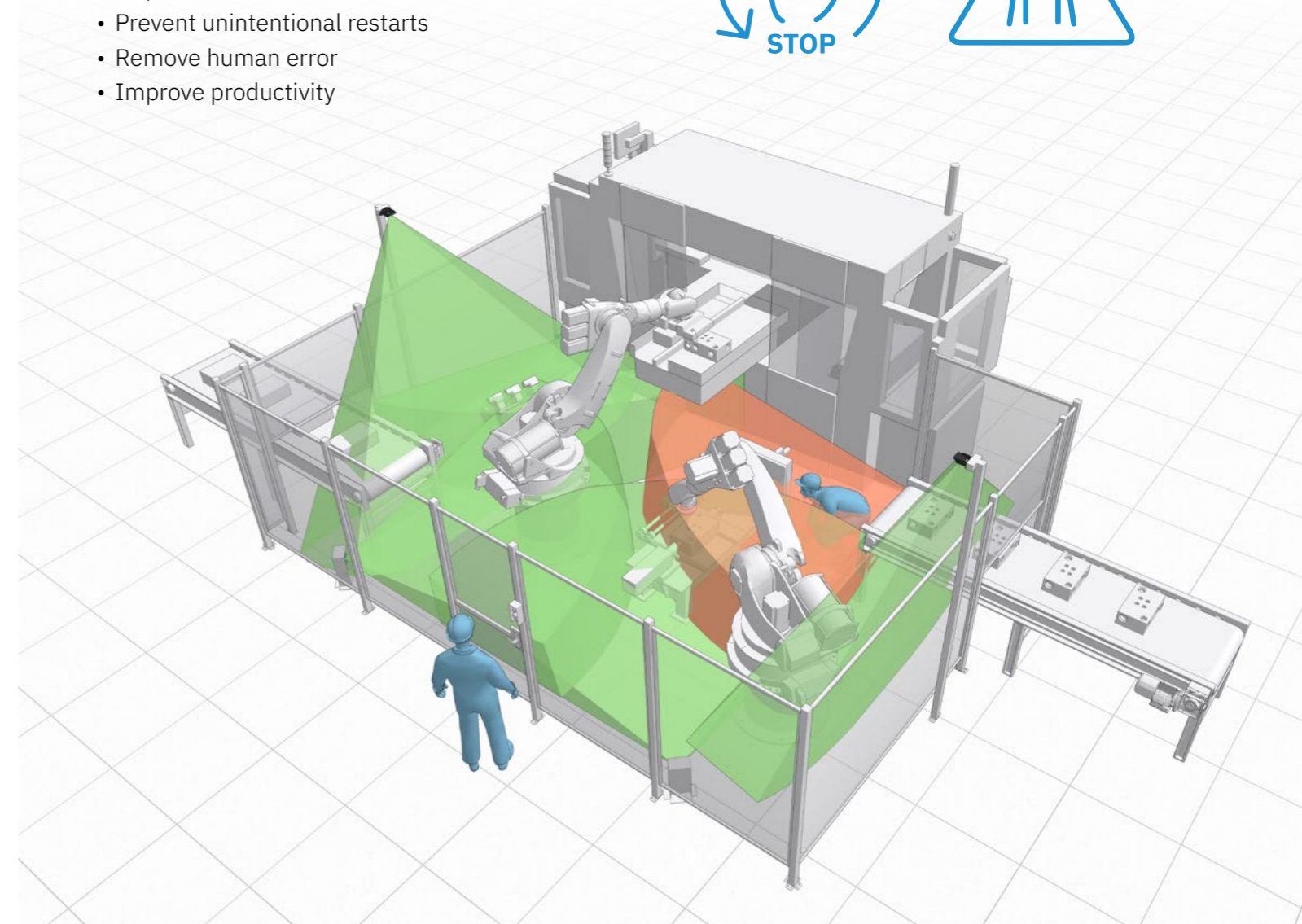
	Fieldbus	Digital I/O	SD backup SD restore	Configuration	Dynamic setting of detection fields
TYPE A	PROFIsafe MODBUS	✓	-	Ethernet USB	Up to 32 configurations switchable in real time
	FSoE MODBUS	✓	-	Ethernet USB	Up to 32 configurations switchable in real time
	MODBUS	✓	-	Ethernet USB	Up to 8 configurations switchable in real time* *from FW 2.0.0 onwards
	-	✓	-	USB	Up to 8 configurations switchable in real time* *from FW 2.0.0 onwards
TYPE B	PROFIsafe MODBUS	✓	✓	Ethernet USB	Up to 32 configurations switchable in real time
	FSoE MODBUS	✓	✓	Ethernet USB	Up to 32 configurations switchable in real time
	MODBUS	✓	✓	Ethernet USB	Up to 8 configurations switchable in real time
	-	✓	✓	USB	Up to 8 configurations switchable in real time

Inxpect application examples

Safety functions: restart prevention and access protection

Main features:

- 3D radar: volumetric protection
- Adaptive to changing scenarios
- Improve human/machine interaction
- Prevent unintentional restarts
- Remove human error
- Improve productivity





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