



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).

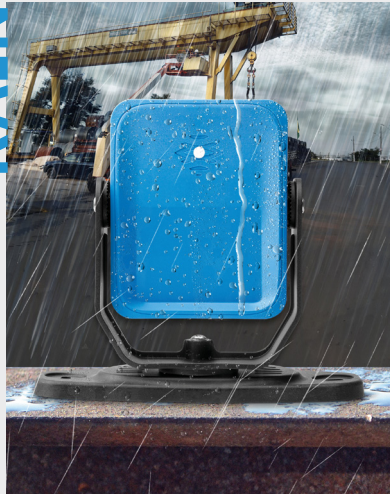


Inxpect works where optical sensors stop.
High safety without compromising productivity.

SPARKS



RAIN



DUST



5m RANGE SENSORS



FOV shapes

4
Detection fields

4s
Restart timeout

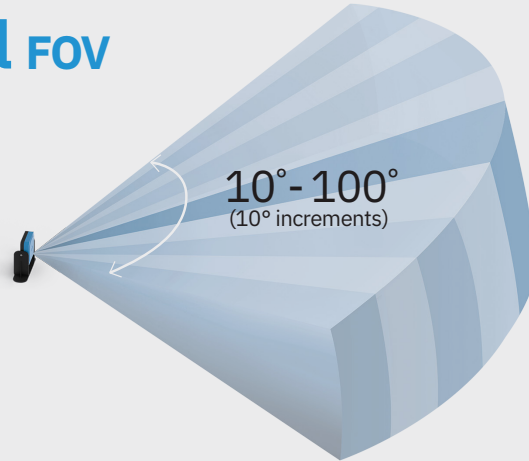
2m/s
Max target speed

Adjustable angles

Symmetrical FOV

Available on:

S201A
S201A-W
S203A-W

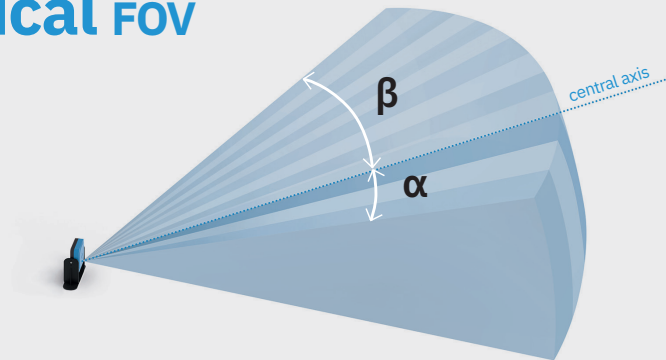


Freely adjustable angles:
Horizontal Plane: 10°-100°

Asymmetrical FOV

Available on:

S201A-W
S203A-W



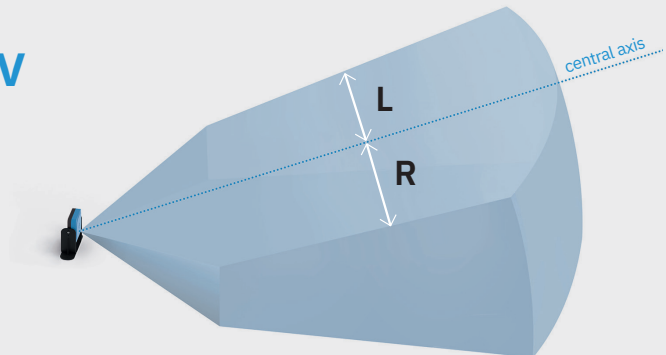
Freely adjustable angles:
Horizontal Plane: 10°-100°

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

Corridor FOV

Available on:

S201A-W
S203A-W

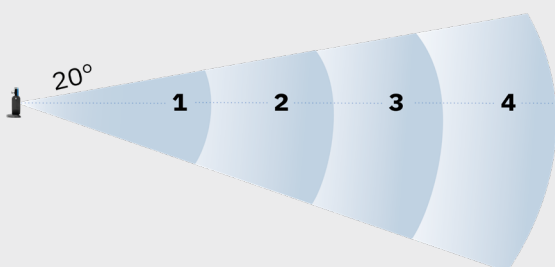


Freely adjustable widths:
Width: 20-800 cm

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

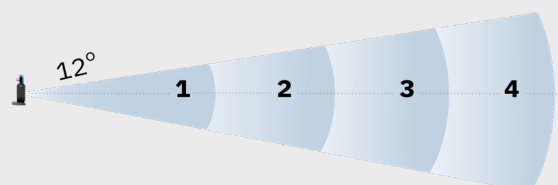
Vertical Plane: 20°

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

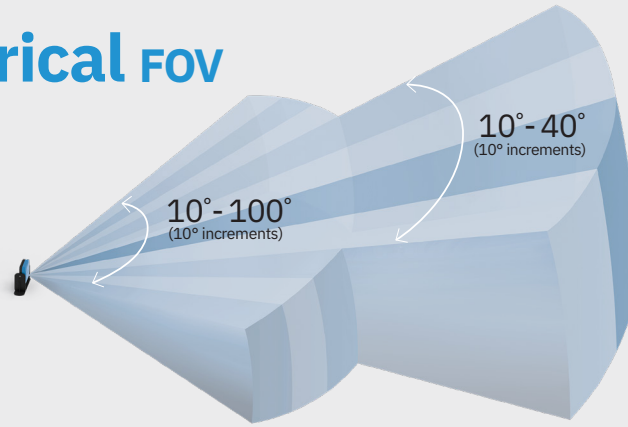
Adjustable angles

RCS
Selectable

Symmetrical FOV

Available on:

S201A-MLR
S201A-WL
S203A-WL



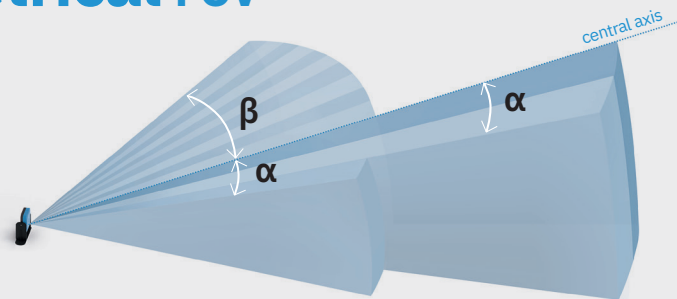
Freely adjustable angles:

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]

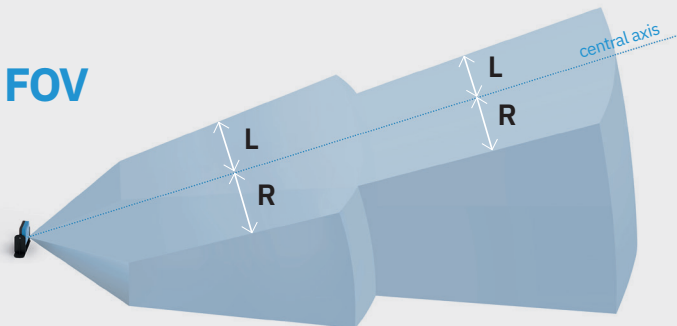
$\alpha \neq \beta$

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:

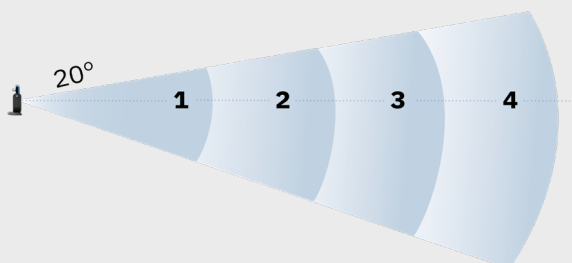
Width: 20-800 cm [0-5m]
30-800 cm [5-9m]

$L \neq R$

L: 0-400 cm R: 0-400 cm

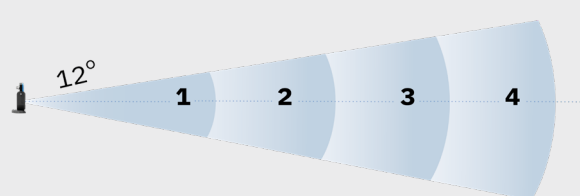
Vertical Plane: 20°

Available on: S201A-MLR, S201A-WL



Vertical Plane: 12°








Available on: S203A-WL



RADAR SENSORS

Which smart sensor fits my needs?

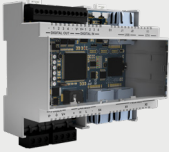
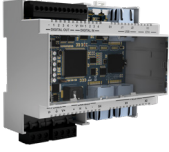








	Vertical angular coverage	FOV	Max target speed	Min settable distance	Settable RCS
4M RANGE	Wide 30° Narrow 15°	Symmetrical	1,6 m/s	1 m	-
	 S101A				
5M RANGE	20°	Symmetrical	2 m/s	0.5 m	-
	 S201A				
	20°	Advanced	2 m/s	0.2 m	-
	 S201A-W				
	12°	Advanced	2 m/s	0.2 m	-
 S203A-W					
9M RANGE	20°	Symmetrical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

CONTROL UNITS

Which control unit fits my needs?



	Fieldbus	Digital I/O	SD backup SD restore	Configuration	Dynamic setting of detection fields	
TYPE A	 C201A-PNS	PROFIsafe MODBUS	✓	-	Ethernet USB	Up to 32 configurations switchable in real time
	 C201A-F	FSoE MODBUS	✓	-	Ethernet USB	Up to 32 configurations switchable in real time
	 C202A	MODBUS	✓	-	Ethernet USB	Up to 8 configurations switchable in real time* *from FW 2.0.0 onwards
	 C203A	-	✓	-	USB	Up to 8 configurations switchable in real time* *from FW 2.0.0 onwards
TYPE B	 C201B-P	PROFIsafe MODBUS	✓	✓	Ethernet USB	Up to 32 configurations switchable in real time
	 C201B-F	FSoE MODBUS	✓	✓	Ethernet USB	Up to 32 configurations switchable in real time
	 C202B	MODBUS	✓	✓	Ethernet USB	Up to 8 configurations switchable in real time
	 C203B	-	✓	✓	USB	Up to 8 configurations switchable in real time

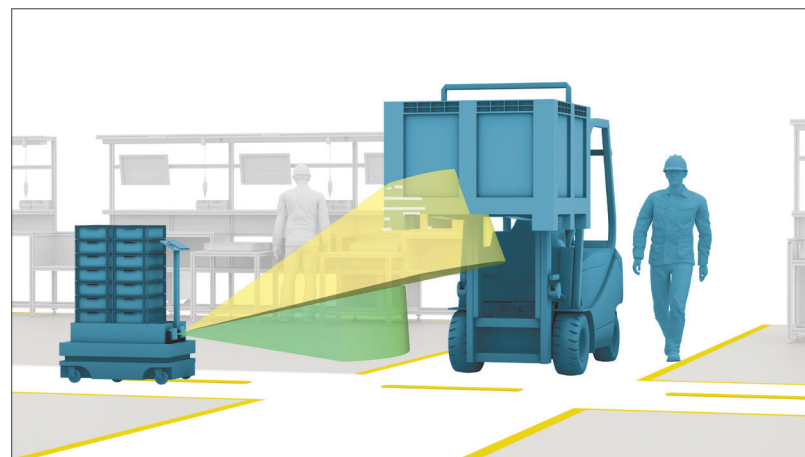
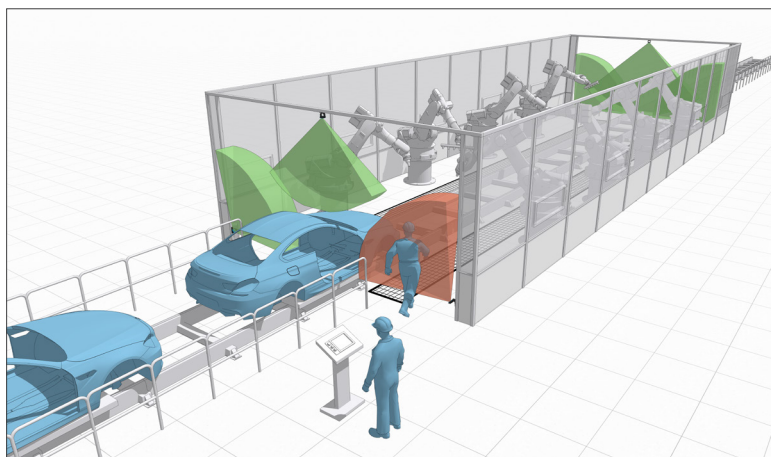
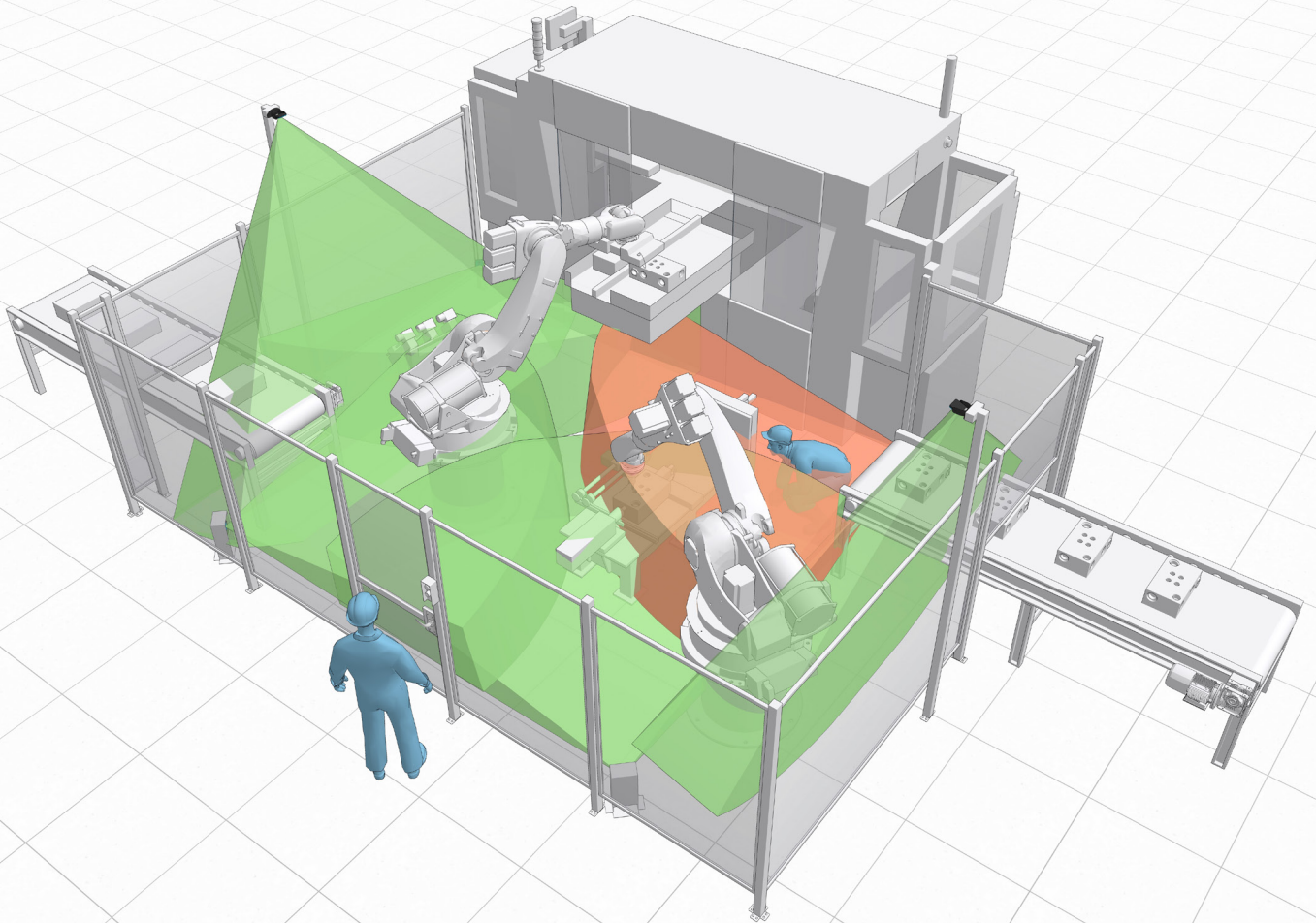


Inxpect application examples

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





Est.1899

SCATTERGOOD & JOHNSON LTD

ELECTRICAL ENGINEERING & FLUID CONTROL DISTRIBUTORS



Gateshead
Federation Way,
NE11 9HL
Tel: 0191 460 2233
gateshead@scatts.co.uk



Glasgow
80 Fifty Pitches Road,
G51 4EB
Tel: 0141 892 0166
glasgow@scatts.co.uk



Leeds - Head Office
Lowfields Road
LS12 6ET
Tel: 0113 243 0203
sales@scatts.co.uk



Manchester
Eleventh Street, Trafford Park
M17 1SP
Tel: 0161 876 4337
manchester@scatts.co.uk



Sheffield
Surbiton Street,
S9 2DN
Tel: 0114 242 8840
sheffield@scatts.co.uk



Walsall
Unit J Fryer's Close,
WS3 2XQ
Tel: 01922 403426
walsall@scatts.co.uk



www.scatts.co.uk
safety@scatts.co.uk



INXPECT
Sense the world in 3D



Inxpect S.p.A.
Via Serpente, 91
25131 Brescia (IT)
T +390305785105
www.inxpect.com

