

WOODWORKING INDUSTRY

Use cases brochure

INXPECT SAFETY RADAR EQUIPMENT

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

RESISTANT TO DISTURBANCES





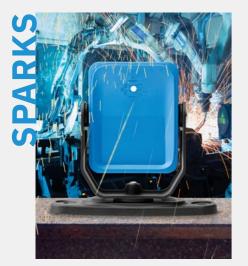
ACCESS PROTECTION

RESTART PREVENTION

If the operator moves It prevents machinery closer to the dangerous from restarting while area, it places machinery operators are in the in a safe state. dangerous area.

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.







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Sensors Range

FOV shapes



Symmetrical FOV

Available on: S201A S201A-MIR S201A-W S203A-W S201A-WL S203A-WL

10°-100°

Asymmetrical FOV

Available on: S201A-W S203A-W S201A-WL S203A-WL



Corridor FOV

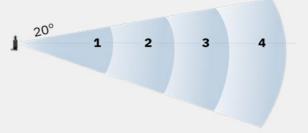
Available on:

S201A-W S203A-W S201A-WI S203A-WL



Vertical Plane: 20°

Available on: S201A, S201A-MLR, S201A-W, S201A-WL







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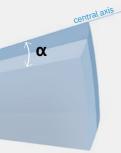






Freely adjustable angles:

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



R



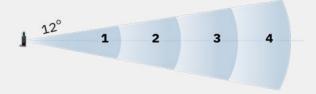
Horizontal Plane: 10°-100° [0-5m] 10°-40° [5-9m]

α≠β α: 0°-50° β: 0°-50° [0-5m] α: 0°-20° β: 0°-20° [5-9m]



L≠R L: 0-400 cm R: 0-400 cm

Vertical Plane: 12° Available on: S203A-W, S203A-WL



RADAR SENSORS

Technical specifications

2



CONTROL UNITS

Technical specifications

		Fieldbus	Digital I/O	SD backup SD restore	Configuration	Dynamic setting of detection fields
EA	C201A-PNS	PROFIsafe MODBUS	0	-	Ethernet USB	Up to 32 configurations switchable in real time
	C201A-F	FSoE MODBUS	S	-	Ethernet USB	Up to 32 configurations switchable in real time
ТҮРЕ А	C202A	MODBUS	~	-	Ethernet USB	Up to 8 configurations switchable in real time* *from FW 2.0.0 onwards
	C203A	-	S	-	USB	Up to 8 configurations switchable in real time* *from FW 2.0.0 onwards
	C201B-P	PROFIsafe MODBUS	Ø	⊘	Ethernet USB	Up to 32 configurations switchable in real time
8	C201B-F	FSoE MODBUS	S		Ethernet USB	Up to 32 configurations switchable in real time
TYPE B	C202B	MODBUS	S		Ethernet USB	Up to 8 configurations switchable in real time
	C203B	-			USB	Up to 8 configurations switchable in real time

	Vertical angular coverage	FOV	Max target speed	Min settable distance	Settable RCS
5101A	Wide 30° Narrow 15°	Symmetrical	1.6 m/s	1 m	-
5201A	20°	Symmetrical	2 m/s	0.5 m	-
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	⊘
5201A-WL	20°	Advanced	4 m/s	0.2 m	<
S203A-WL	12°	Advanced	4 m/s	0.2 m	S

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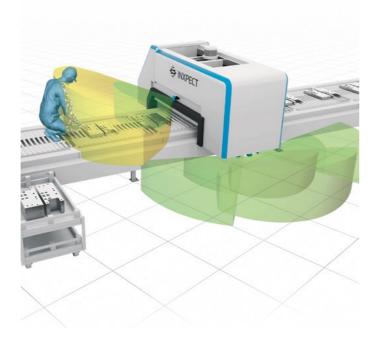
WOODWORKING **GANTRY MACHINE**

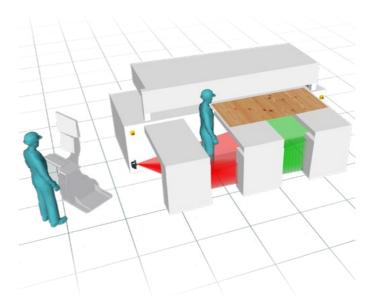
The immunity against the wood dust and the possibility to change dynamically the radar parameters make the radar system the perfect solution for CNC machine.

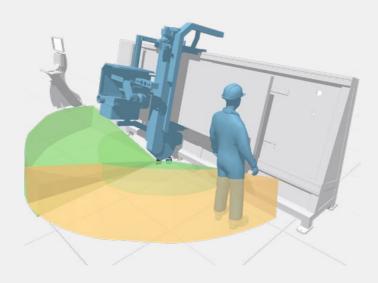
No more physical fences and segregated areas, the machinery can work at high speed, increasing productivity without negletting the safety of the operator.

Product list:

Quantity	Products
1	C201A-PNS
5	S203A-W
5	Cables
1	Bus Terminator







WOODWORKING **VERTICAL MACHINE**

The radar sensor can be installed on the moving structure and it will trigger an alarm every time that an operator stands along the path of the gantry.

Human/machinery interaction is smoother, leading to less downtime and ultimately boosting production.

Product list:

Quantity	Products
1	C202B
2	S203A-W
2	Cables
1	Bus terminator

WOODWORKING **ROBOTIC CELL**

Inxpect refines the state of art of robotics cell and the world of industrial safety in general.

Inxpect 3D radars ensure maximum safety within dangerous areas preventig unintentional restart while the operator is in the dangerous area.

Product list:

Quantity	Products
1	C203A
6	S201A
6	Indoor Adjustable protector kit
6	Cables
2	Bus terminators

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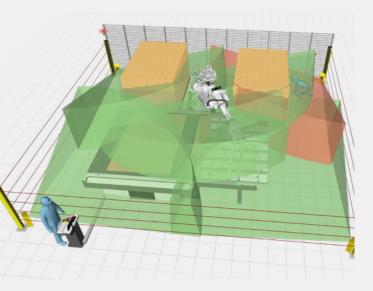
AUTOMATIC BEAM SAW

The Inxpect safety radar sensors are completely immune against wood debris keeping the operations smooth and safe.

With four independent detection fields, and a precise information of targets position (range and angle), the Inxpect safety radar sensor revolutionises the efficiency of beam saw processes.

Product list:

Products
C201A-PNS
S203A-W
Cable
Bus terminator



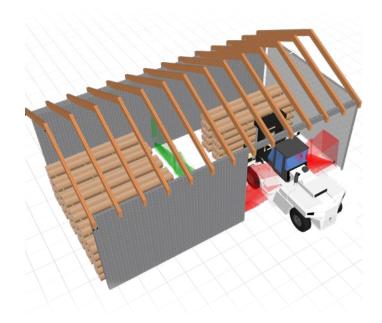
CONTINUOUS KILNS

Inxpect safety radar monitors the kiln entrance, creating virtual barriers to keep the area safe.

It is completely immune to dust, smoke and fog avoiding false alarms. Even under heavy rain (up to 45 mm/h), its reliability is not affected.

Products list:

Quantity	Products
1	C201A-PNS
4	S203A-WL
2	Outdoor Adjustable protector kit
2	Indoor Adjustable protector kit
4	Cables
2	Bus Terminators





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