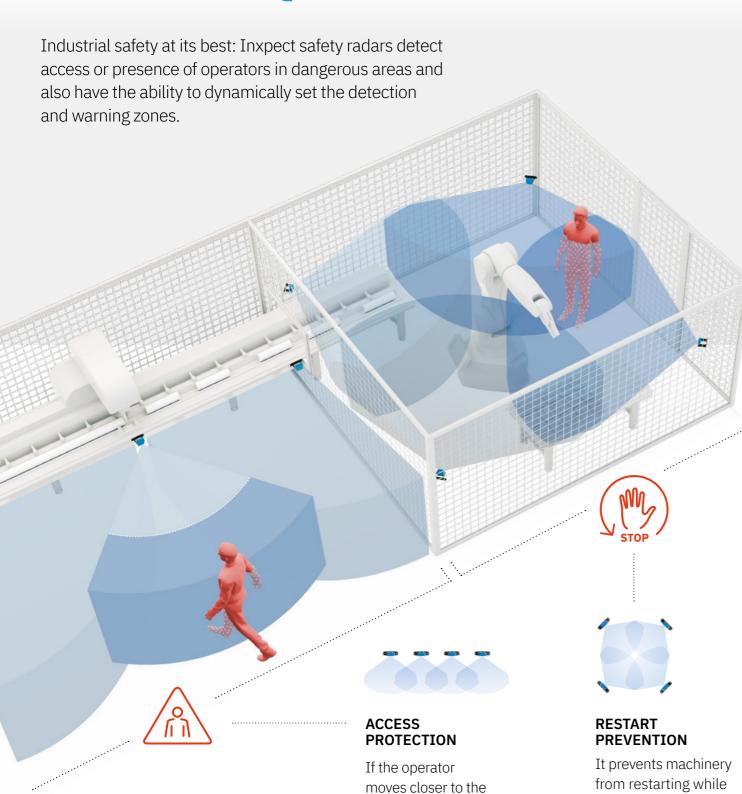


INXPECT SAFETY RADAR EQUIPMENT

Product catalogue

INXPECT SAFETY RADAR EQUIPMENT



WORLD'S FIRST

SIL2/PLd and **UL** Listed safety radar products









DYNAMIC MODIFICATION OF DETECTION ZONES

The sensor parameters can be configured in real-time, allowing a dynamic modification of the detection zone. This feature makes Inxpect sensors perfect solutions for mobile robotic applications.



operators are in the

dangerous area.

SECURE CONFIGURATION

Whether you chose USB or Ethernet for configuring Inxpect Safety Radar Products, we got you covered. In all cases, Inxpect control units and the Inxpect Safety Application cooperate in full security.



IMPROVE THE COMMUNICATION WITH MACHINERY

The modular fieldbus allows Inxpect Radar Sensors to exchange safety data, such as the position of the target, in real time with the machinery's PLC. This allows an effective integration with the machinery's control system.



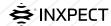
RESPONSE TIME < 100 MS

With response times lower than 100 ms, you can save space and reduce the area required to stop the machinery.

safe state.

dangerous area, it

places machinery in a





RESISTANT TO DISTURBANCES

Optical devices often fail due to dust, smoke, water or waste generated by the production process. The Inxpect team, highly specialized in radar technology, has developed a sophisticated long range radar algorithm that filters out those disturbances, reducing false alarms and increasing productivity.

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





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





"Inxpect is a young tech company with an extraordinary team and corporate culture, which have allowed the company to develop the most advanced safety radar in the world"

Passion is what guides our team, a passion that continues to grow from month to month: that is the driving force that makes anything possible, and that made Inxpect the first company in the world (and the only one to date) to create a SIL-certified safety radar system.

We have in-depth knowledge of the global safety market. We know all of its demands and secrets. We know what different industries need and we are here to change the idea of safety from how it is perceived today to bring it to a totally new level. Inxpect is an international company with offices in Italy, Germany, North America, China and with future plans to have a direct presence in many other countries.



25+

millions euro

25000+

working installations

30+

families

20+

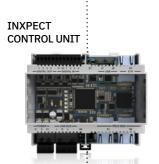
PhDs in core R&D 55+

worldwide partnership in safety and robotics



INXPECT SAFETY STUDIO





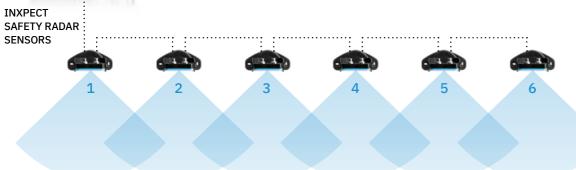
Inxpect Safety Radar Equipment

is flexible, modular and scalable

Inxpect Safety Radar systems are composed of a control unit and up to six radar sensors*: high flexibility, from simple to complex scenarios.

Configuring the system is quick and easy, thanks to the user friendly Inxpect Safety Studio.

Guided validation procedures and the simple generation of the configuration report complete each installation.



*For the Plug&Safe Line and Omni Line, the number of sensors that can be connected to the control unit is up to five.



Target information as distance and angle are always available in real time.

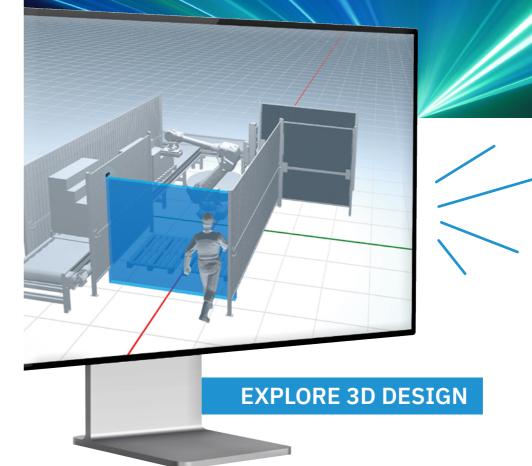


The Inxpect Safety Application allows to set up to 32 different configurations to be selected dynamically in real time.



Programmable Muting function: the configuration of sensor groups that can be temporarily muted allows operators to safely access parts of the dangerous area, according to production needs.

Inxpect Safety Studio Welcome to the future of 3D configuration



The next generation





3D FIELDS OF VIEW

FOVs have no more secrets! Thanks to 3D visualization they are now easier to set up and manage. You can see the radar-protected field in the application area.



MULTI-SYSTEM PROJECTS

The new Inxpect Safety Studio can manage multiple control units with their sensors, making it the most advanced software out there.



OFFLINE MODE

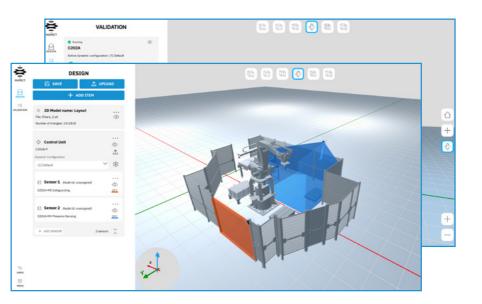
You can work in online and offline modes. You can carry out all projects anywhere without connected sensors, from feasibility study to deployment.



NEW GRAPHICS

Advanced functions in a more intuitive interface!

Configuring Inxpect sensors is FASTER and MORE INTUITIVE than ever before.





Restart Prevention

Inxpect radar sensors are designed to monitor the presence of people in the area and, at the same time, filter out static objects (these objects do not stop the machine).



Static objects in the area are filtered out. The robot restarts and continues its operating cycle.

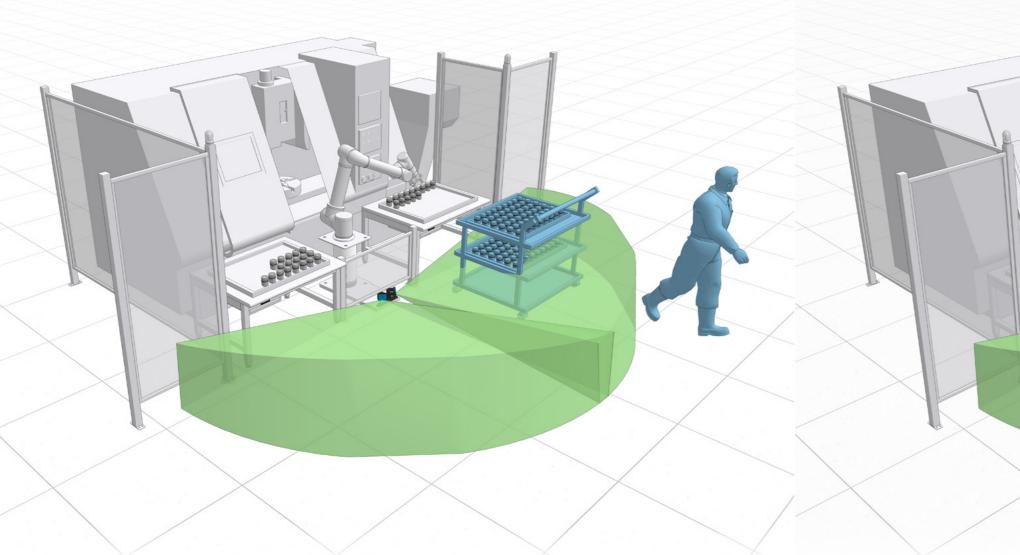
S200 sensors introduce Restart Prevention with **Static Object Detection**

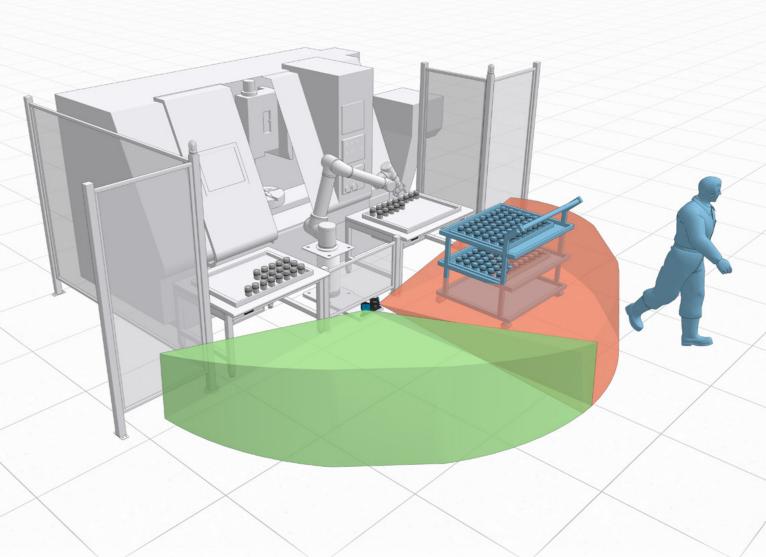
When needed, an additional function can be activated: **Static Object Detection.**

This feature allows you to detect even static objects in the area keeping the machine in stop. It is particularly important to avoid collision with potential obstacles in mobile applications such as overhead gantries, AGVs, self-driving vehicles, etc.



When Static Object Detection is active and there are obstacles in the area the system prevents the restart of the machine.







RADAR RADAR SENSORS



Which radar sensor fits my needs?

RADAR SENSORS







Technical specifications

100 SERIES	Vertical angular	Field of View	Number of	Sensitive Protective
	coverage	(FOV)	Detection Fields	Equipment functions
\$101A	Wide 30° Narrow 15°	Classic	2	Safeguarding Presence Sensing

200 SERIES

Pro Line

S201A-W	20°	Classic Corridor	4	Safeguarding Presence Sensing
S203A-W	12°	Classic Corridor	4	Safeguarding Presence Sensing

Plug&Safe Line

S202A-MV	max 90°	-	1	Presence Sensing
S202A-MS	max 90°	-	1	Safeguarding

Omni Line

_					
	S202A-MC1	max 90°	Classic Corridor Cuboid	1	Safeguarding Presence Sensing
	S202A-MC2	max 90°	Classic Corridor Cuboid	2	Safeguarding Presence Sensing
	S202A-MC4	max 90°	Classic Corridor Cuboid	4	Safeguarding Presence Sensing

200 SERIES 9 M

Pro Line 9m

\$201A-WL	20°	Classic Corridor	4	Safeguarding Presence Sensing
\$203A-WL	12°	Classic Corridor	4	Safeguarding Presence Sensing

S101A















100 SERIES

THE FIRST SAFETY RADAR SENSOR

Safety Parameters:
SIL2 (IEC 61508)PLd, Cat. 2 (ISO 13849)



S101A

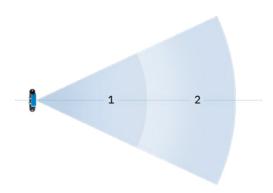
The first safety radar sensor

The **S101A** sensor is a smart FMCW (Frequency Modulated Continuous Wave) radar device based on proprietary Inxpect detection algorithms. The sensor sends 24 GHz radio waves and recovers motion information, analyzing the signals reflected by both static and moving objects in the operative range.

The sensors perform the following primary functions:

- · Motion and scenario analysis.
- Communication to the control unit of processed motion data and diagnostic information.

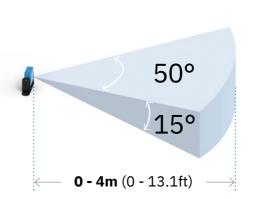
Two detection fields with fixed angles (angles can only be wide or narrow).



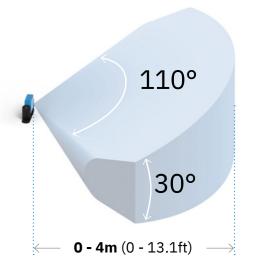
Two configurable fields of view

1. Narrow FOV 0 - 4m [min. set distance: 1m]

Horizontal Plane: 50° Vertical Plane: 15°



2. Wide FOV 0 - 4m [min. set distance: 1m]
Horizontal Plane: 110°
Vertical Plane: 30°



Part No. **90202011**







Technical details

Frequency	24 GHz ISM license-free
Connectors	Two 5-pin M12 connectors (1 male and 1 female)
CAN bus termination resistance	120 Ω (not supplied, to be installed with termination connector)
Power supply	12 V dc ± 20%, through control unit
Power consumption	1.5 W
Degree of protection	IP67
Operating temperature	From -30 to +60 °C (-22 to +140 °F)
Case material	Sensor: PA66 Bracket: PA66 and glass fiber (GF)

S201A-W



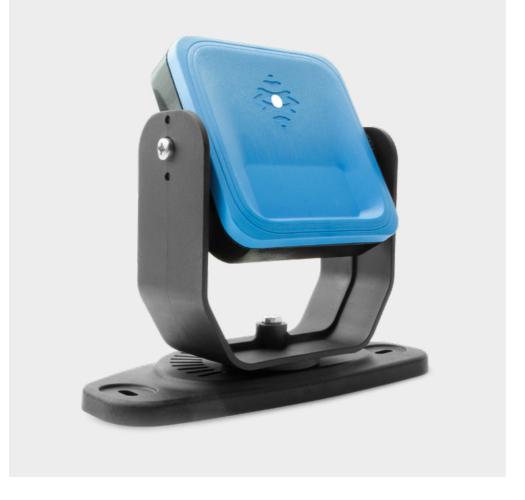












200 SERIES Pro Line

CORRIDOR FOV



Safety Parameters:

- SIL2 (IEC 61508)
- PLd, Cat. 3 (ISO 13849)
- Performance Class D (IEC/ TS 62998-1)

S201A-W

Corridor FOV

The **S201A-W** sensor has advanced field of view. i.e. the user can choose whether to use a symmetrical FOV, an asymmetrical FOV (asymmetric angles with respect to the central axis of the sensor) or a corridor FOV (with the sides cut off where required by the application). More and more modularity for all industrial applications!

The sensors perform the following primary functions:

- · Motion and scenario analysis.
- · Communication to the control unit of processed motion data and diagnostic information.
- Static Object Detection: this new option allows to detect static objects in the area where the restart prevention safety function is activated. By doing so it prevents the machinery from restarting when there are obstacles in the area.

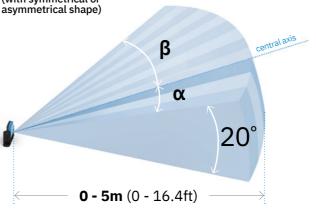
Field of view

0 - 5m [min. set distance: 0.2m] Horizontal Plane: 10-100°

Vertical Plane: 20°

Classic FOV (with symmetrical or

α: 0°-50° β: 0°-50°



Corridor FOV

(with symmetrical or

Part No. **90302111**

4s



20°

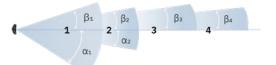
Technical details

Frequency	Millimeter waves V-band: 60 GHz
Connectors	Two 5-pin M12 connectors (1 male and 1 female)
CAN bus termination resistance	120 Ω (not supplied, to be installed with termination connector)
Power supply	12 V dc ± 20%, through control unit
Power consumption	2.2 W
Degree of protection	IP67
Operating temperature	From -30 to +60 °C (-22 to +140 °F)
Case material	Sensor: PA66 (front) + Aluminum (back) Bracket: PA66 and glass fiber (GF

with freely adjustable angles (10°-100°) and a maximum total distance of 5 m.

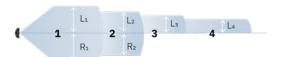
Four independent detection fields

Classic FOV $\alpha = \beta$ or $\alpha \neq \beta$

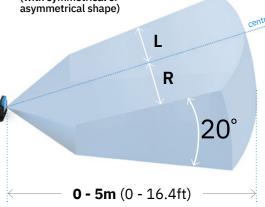


The aperture of each field is dynamically adjustable in 5° increments over a range of 10° to 100°.

Corridor FOV L = R or $L \neq R$



L + R ≥ 20cm





S203A-W



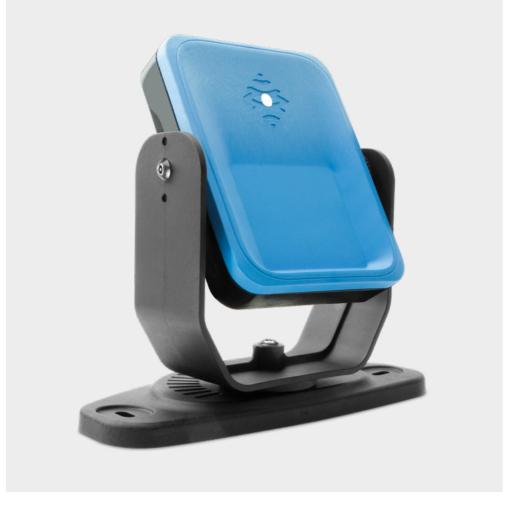












200 SERIES **Pro Line**

VERTICAL FOV 12°

Safety Parameters:

• SIL2 (IEC 61508) • PLd, Cat. 3 (ISO 13849) • Performance Class D (IEC/

TS 62998-1)



S203A-W

Vertical FOV 12°

The **S203A-W** has an advanced field of view equipped with a vertical angular coverage of only 12° (instead of 20° in previous sensors), making it the most adaptable sensor for Autonomous Guided Vehicles (AGVs).

The sensors perform the following primary functions:

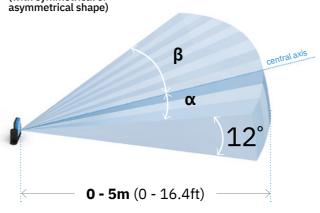
- · Motion and scenario analysis.
- · Communication to the control unit of processed motion data and diagnostic information.
- Static Object Detection: this new option allows to detect static objects in the area where the restart prevention safety function is activated. By doing so it prevents the machinery from restarting when there are obstacles in the area.

Field of view

0 - 5m [min. set distance: 0.2m] Horizontal Plane: 10-100° Vertical Plane: 12°

Classic FOV (with symmetrical or

α: 0°-50° β: 0°-50°



Part No. 90306011



4s



Technical details

Frequency	Millimeter waves V-band: 60 GHz
Connectors	Two 5-pin M12 connectors (1 male and 1 female)
CAN bus termination resistance	120 Ω (not supplied, to be installed with termination connector)
Power supply	12 V dc ± 20%, through control unit
Power consumption	2.2 W
Degree of protection	IP67
Operating temperature	From -30 to +60 °C (-22 to +140 °F)
Case material	Sensor: PA66 (front) + Aluminum (back) Bracket: PA66 and glass fiber (GF)

Four independent detection fields

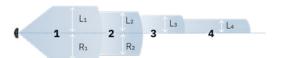
with freely adjustable angles (10°-100°) and a maximum total distance of 5 m.

Classic FOV $\alpha = \beta$ or $\alpha \neq \beta$

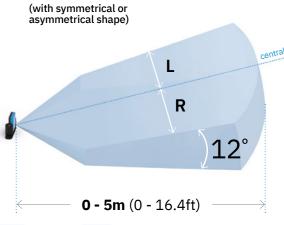


The aperture of each field is dynamically adjustable in 5° increments over a range of 10° to 100°.

Corridor FOV L = R or $L \neq R$



Corridor FOV L + R ≥ 20cm



3-axis bracket: the sensor can rotate



S202A-MV



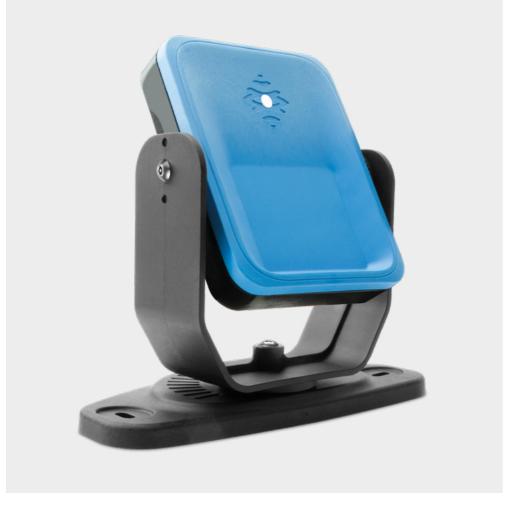
scan the QR Code to open the Regulatory Notice Page











200 SERIES Plug&Safe Line PRESENCE SENSING

747 mm (3.34 in) 158 mm (6.22 in) 130 mm (5.12 in)

Safety Parameters:

- SIL2 (IEC 61508)
- PLd, Cat. 3 (ISO 13849)
- Performance Class D (IEC/ TS 62998-1)

S202A-MV

Presence Sensing

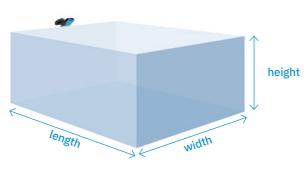
The **S202A-MV sensor** is specially designed for the Presence Sensing function.

It is highly reliable, extremely easy to configure (only 3 parameters are required) and provides maximum operator safety, while dramatically improving productivity.

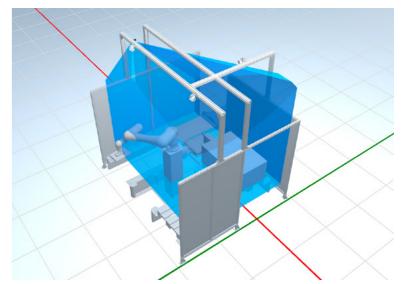
Presence Sensing

Monitor hazardous area preventing the unexpected startup of the machinery while operators are still inside.

Max volume: up to 48 m³.







Installation height from 250 cm to 300 cm (from Reference Plane). Width from -200 cm to +200 cm (min 50 cm).

Part No. **90307013.1A0**Range sen







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recimicat actures	
Frequency	Millimeter waves V-band: 60 GHz
Connectors	Two 5-pin M12 connectors (1 male and 1 female)
CAN bus termination resistance	120 Ω (not supplied, to be installed with termination connector)
Power supply	12 V dc ± 20%, through control unit
Power consumption	2.6 W
Degree of protection	IP67
Operating temperature	From -30 to +60 °C (-22 to +140 °F)
Case material	Sensor: PA66 (front) + Aluminum (back) Bracket: PA66 and glass fiber (GF)

S202A-MS



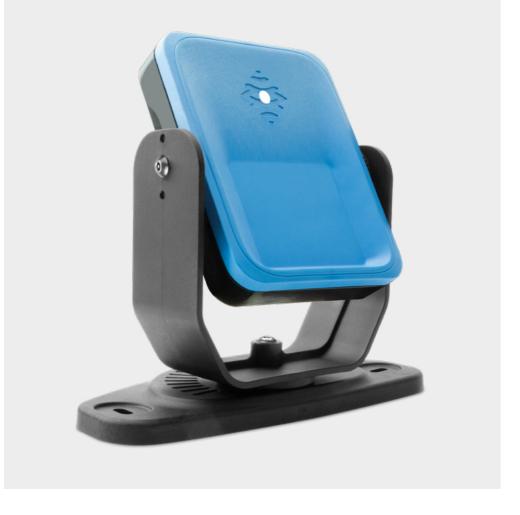
scan the QR Code to open the Regulatory Notice Page











200 SERIES Plug&Safe Line

SAFEGUARDING



Safety Parameters:

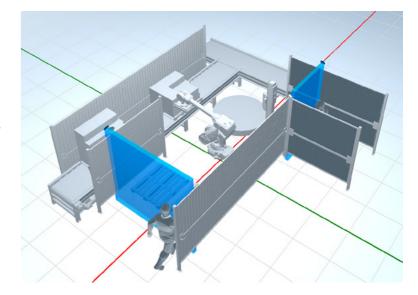
- SIL2 (IEC 61508)
- PLd, Cat. 3 (ISO 13849)
- Performance Class D (IEC/ TS 62998-1)

S202A-MS

Safeguarding

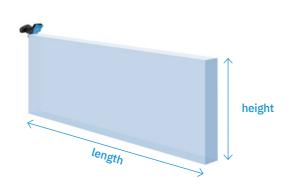
The **S202A-MS sensor** is specially designed for the Safeguarding function.

With this sensor, access control can be carried out easily and immediately in many applications. In fact, it only requires 2 parameters to configure, making it incredibly straightforward to set up.

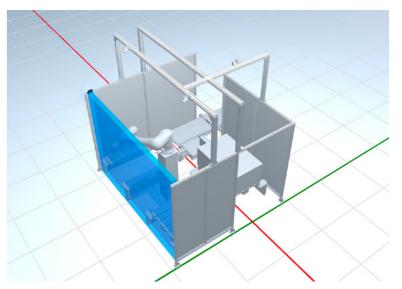


Safeguarding

Use our radar as a virtual wall, safeguarding the hazardous areas.



Easy to install
Configuration requires only 2 parameters:
HEIGHT and LENGTH



Installation height from 100 cm to 250 cm (from Reference Plane). Width: -5cm, + 5cm (fixed). Max length: up to 4m.

Part No. **90307014.1A0**Range senso







Technical details

reclificat details	
Frequency	Millimeter waves V-band: 60 GHz
Connectors	Two 5-pin M12 connectors (1 male and 1 female)
CAN bus termination resistance	120 Ω (not supplied, to be installed with termination connector)
Power supply	12 V dc ± 20%, through control unit
Power consumption	2.6 W
Degree of protection	IP67
Operating temperature	From -30 to +60 °C (-22 to +140 °F)
Case material	Sensor: PA66 (front) + Aluminum (back) Bracket: PA66 and glass fiber (GF)

S202A-MC1



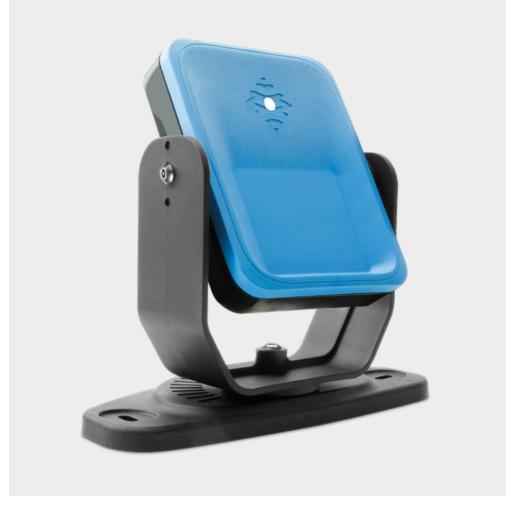
Scan the QR Code to open the Regulatory Notice Page











200 SERIES Omni Line 1 CUBOID



Safety Parameters:

- SIL2 (IEC 61508)
- PLd, Cat. 3 (ISO 13849)
- Performance Class D (IEC/ TS 62998-1)

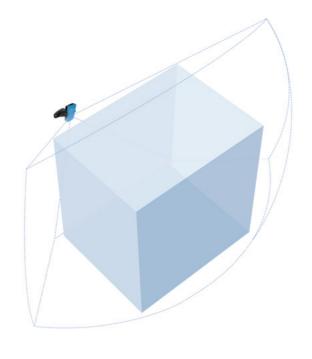
S202A-MC1

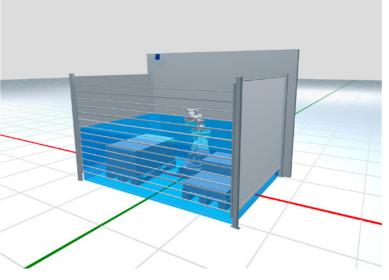
1 Cuboid

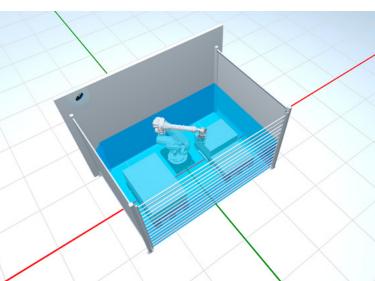
The **NEW S202A-MC1** sensor is highly configurable and designed to cover a wide range of applications. Ensuring maximum productivity and operator safety for your system has never been easier. Try it out!

Configure your cuboid

Freely adjustable shapes: create a cuboid that best suits your application. S202A-MC1 (1 cuboid)







Minimum cuboid dimensions: 50 x 50 x 100 cm (h). Max length: up to 5 m. As an alternative to the cuboid shape, you can also choose the Classic or Corridor shape.

Part No. **90307012.1A1**

5m Range sensor







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100		п.а	-IAI	13

Frequency	Millimeter waves V-band: 60 GHz
Connectors	Two 5-pin M12 connectors (1 male and 1 female)
CAN bus termination resistance	120 Ω (not supplied, to be installed with termination connector)
Power supply	12 V dc ± 20%, through control unit
Power consumption	2.6 W
Degree of protection	IP67
Operating temperature	From -30 to +60 °C (-22 to +140 °F)
Case material	Sensor: PA66 (front) + Aluminum (back) Bracket: PA66 and glass fiber (GF)





S202A-MC2

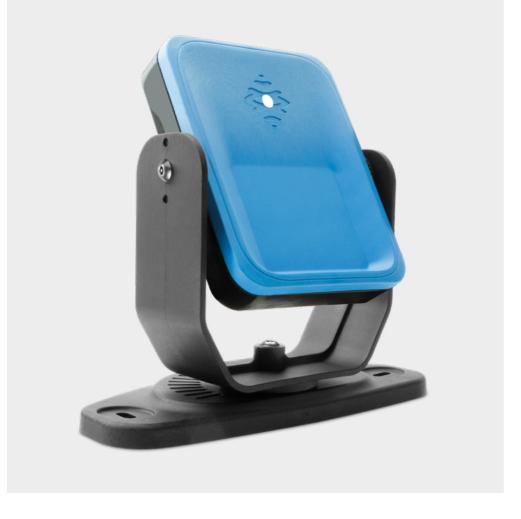












200 SERIES Omni Line

2 CUBOIDS



Safety Parameters:

- SIL2 (IEC 61508)
- PLd, Cat. 3 (ISO 13849)
- Performance Class D (IEC/ TS 62998-1)

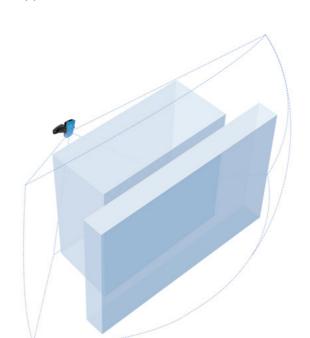
S202A-MC2

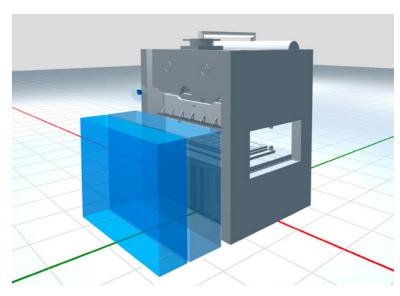
2 Cuboids

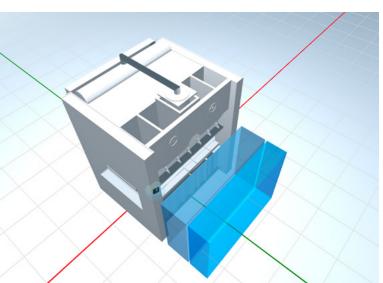
The **NEW S202A-MC2** sensor is highly configurable and designed to cover a wide range of applications. Ensuring maximum productivity and operator safety for your system has never been easier. Try it out!

Configure up to 2 cuboids

Freely adjustable shapes: create up to 2 cuboids that best suit your application. S202A-MC2 (2 cuboids)







Minimum cuboid dimensions: 50 x 50 x 100 cm (h). Max length: up to 5 m. As an alternative to the cuboid shape, you can also choose the Classic or Corridor shape.

Part No. 90307012.1A2









Technical details

Frequency	Millimet
Connectors	Two 5-p
CAN bus termination resistance	120 Ω (r
Power supply	12 V dc
Power consumption	2.6 W
Degree of protection	IP67
Operating temperature	From -3
Case material	Sensor:

eter waves V-band: 60 GHz pin M12 connectors (1 male and 1 female) (not supplied, to be installed with termination connector)

± 20%, through control unit

30 to +60 °C (-22 to +140 °F)

Sensor: PA66 (front) + Aluminum (back) | Bracket: PA66 and glass fiber (GF)

3-axis bracket:

S202A-MC4



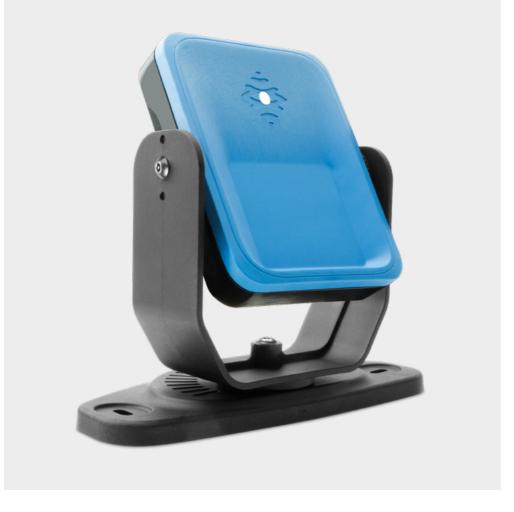
scan the QR Code to open the Regulatory Notice Page











200 SERIES Omni Line

4 CUBOIDS



Safety Parameters:

- SIL2 (IEC 61508)
- PLd, Cat. 3 (ISO 13849)
- Performance Class D (IEC/ TS 62998-1)

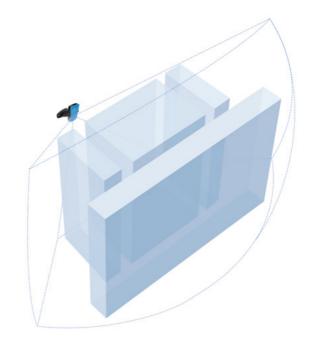
S202A-MC4

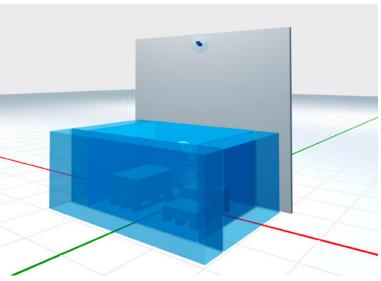
4 Cuboids

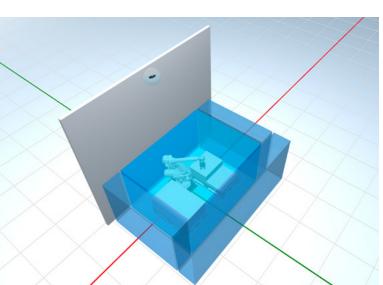
The **NEW S202A-MC4** sensor is highly configurable and designed to cover a wide range of applications. Ensuring maximum productivity and operator safety for your system has never been easier. Try it out!

Configure up to 4 cuboids

Freely adjustable shapes: create up to 4 cuboids that best suit your application. S202A-MC4 (4 cuboids)







Minimum cuboid dimensions: 50 x 50 x 100 cm (h). Max length: up to 5 m. As an alternative to the cuboid shape, you can also choose the Classic or Corridor shape.

Part No. **90307012.1A0**





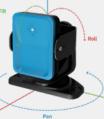




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Frequency	Millimeter waves V-band: 60 GHz
Connectors	Two 5-pin M12 connectors (1 male and 1 female)
CAN bus termination resistance	120Ω (not supplied, to be installed with termination connector)
Power supply	12 V dc ± 20%, through control unit
Power consumption	2.6 W
Degree of protection	IP67
Operating temperature	From -30 to +60 °C (-22 to +140 °F)
Case material	Sensor: PA66 (front) + Aluminum (back) Bracket: PA66 and glass fiber (GF)





S201A-WL



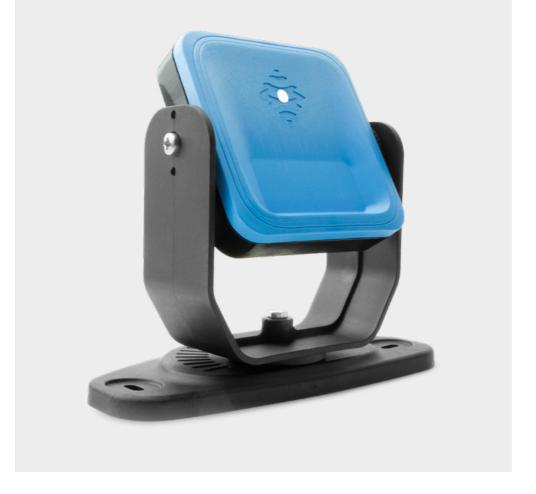












200 SERIES 9 M Pro Line 9m **CORRIDOR FOV, 9M**



Safety Parameters:

- SIL2 (IEC 61508)
- PLd, Cat. 3 (ISO 13849)
- Performance Class D (IEC/TS 62998-1)

S201A-WL

Corridor FOV, 9m

The **S201A-WL** sensor, in addition to the advanced field of view (symmetrical, asymmetrical or corridor FOV), also supports higher speeds (4m/s) and longer ranges (9 meters) than the base S201A-W model. The S201A-WL is therefore ideal in sectors like earth moving, railway, mining and agriculture.

The sensors perform the following primary functions:

- · Motion and scenario analysis.
- · Communication to the control unit of processed motion data and diagnostic information.
- · The RCS of the target can be selected for human safety or collision with other object. The custom target detection is a safety function that allows detecting the access of one or more objects with specific RCS values.

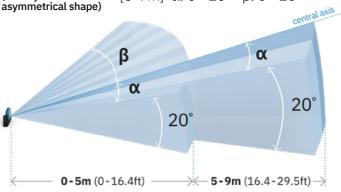
Field of view

0 - 5m [min. set distance: 0.2m] Horizontal Plane: 10-100°

Horizontal Plane: 10-40° Vertical Plane: 20° Vertical Plane: 20°

5 - 9m

Classic FOV [0-5m] α: 0°-50° β: 0°-50° [5-9m] α: 0°-20° β: 0°-20° (with symmetrical or



4s





Technical details

Part No. 90305111

Frequency Millimeter waves V-band: 60 GHz Connectors Two 5-pin M12 connectors (1 male and 1 female) CAN bus termination resistance 120 Ω (not supplied, to be installed with termination connector) Power supply 12 V dc ± 20%, through control unit Power consumption 2.2 W Degree of protection Operating temperature From -30 to +60 °C (-22 to +140 °F) Case material Sensor: PA66 (front) + Aluminum (back) | Bracket: PA66 and glass fiber (GF)

Four independent detection fields with freely adjustable angles (see below)

and a maximum total distance of 9 m.

Classic FOV $\alpha = \beta$ or $\alpha \neq \beta$

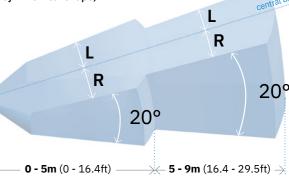


The aperture of each field is dynamically adjustable in 5° increments over a range of 10° to 100° (0-5 m) and over a range of 10° to 40° (5-9 m).

Corridor FOV L = R or $L \neq R$



Corridor FOV $[0-5m] L + R \ge 20cm$ [5-9m] L + R ≥ 30cm (with symmetrical or





S203A-WL



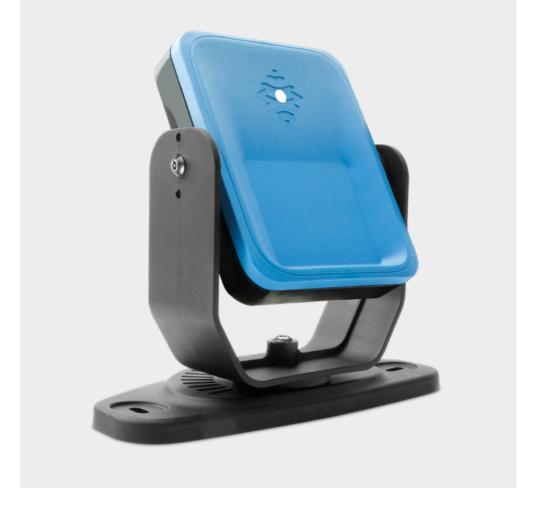












200 SERIES 9 M Pro Line 9m **VERTICAL FOV 12°, 9M**



Safety Parameters:

- SIL2 (IEC 61508)
- PLd, Cat. 3 (ISO 13849)
- Performance Class D (IEC/TS 62998-1)

S203A-WL

Vertical FOV 12°, 9m

The **S203A-WL** sensor, in addition to the advanced field of view equipped with a vertical angular coverage of 12°, also supports higher speeds (4m/s) and longer ranges (9 meters) than the base S203A-W model. The S203A-WL is therefore ideal in sectors like earth moving, railway, mining and agriculture.

The sensors perform the following primary functions:

- · Motion and scenario analysis.
- · Communication to the control unit of processed motion data and diagnostic information.
- · The RCS of the target can be selected for human safety or collision with other object. The custom target detection is a safety function that allows detecting the access of one or more objects with specific RCS values.

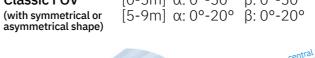
Field of view

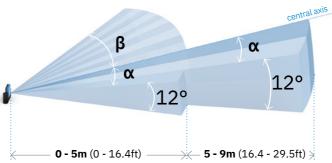
0 - 5m [min. set distance: 0.2m]

Horizontal Plane: 10-100° Horizontal Plane: 10-40° Vertical Plane: 12° Vertical Plane: 12°

5 - 9m

[0-5m] α: 0°-50° β: 0°-50° Classic FOV





Part No. 90306111







Corridor FOV



0 - 5m (0 - 16.4ft)

3-axis bracket:

the sensor can rotate on three axis (x, y, z).

R

12°

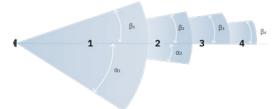
Technical details

Frequency	Millimeter waves V-band: 60 GHz
Connectors	Two 5-pin M12 connectors (1 male and 1 female)
CAN bus termination resistance	120Ω (not supplied, to be installed with termination connector)
Power supply	12 V dc ± 20%, through control unit
Power consumption	2.2 W
Degree of protection	IP67
Operating temperature	From -30 to +60 °C (-22 to +140 °F)
Case material	Sensor: PA66 (front) + Aluminum (back) Bracket: PA66 and glass fiber (GF)

Four independent detection fields

with freely adjustable angles (see below) and a maximum total distance of 9 m.

Classic FOV $\alpha = \beta$ or $\alpha \neq \beta$



The aperture of each field is dynamically adjustable in 5° increments over a range of 10° to 100° (0-5 m) and over a range of 10° to 40° (5-9 m).

Corridor FOV L = R or $L \neq R$



 $[0-5m] L + R \ge 20cm$ [5-9m] L + R ≥ 30cm (with symmetrical or asymmetrical shape)





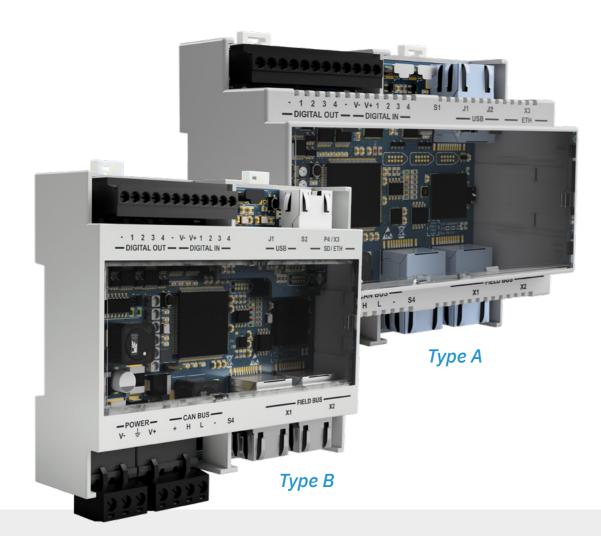


CONTROL UNITS





CONTROL UNITS



Which control unit fits my needs?

Control units are available in different lines (Core and eXtended). The eXtended Line is supported by the new Inxpect Safety Studio.

Tec	hni	cal	sp	eci	fic	ati	ons

		Fieldbus	Digital I/O	SD backup SD restore	Dynamic setting of detection fields
	C201A PROFIsafe	PROFIsafe MODBUS	⊘	-	Up to 32 configurations switchable in real time
TYPE A	C201A FSoE	FSoE MODBUS		-	Up to 32 configurations switchable in real time
ТҮР	C202A MODBUS	MODBUS		-	Up to 8 configurations switchable in real time
	C203A USB	-		-	Up to 8 configurations switchable in real time
	C201B PROFIsafe	PROFIsafe MODBUS			Up to 32 configurations switchable in real time
	C201B FSoE	FSoE MODBUS	⊘		Up to 32 configurations switchable in real time
TYPE B	C201B CIP Safety™	CIP Safety™ MODBUS	⊘		Up to 32 configurations switchable in real time
	C202B MODBUS	MODBUS			Up to 8 configurations switchable in real time
	C203B USB	-	⊘		Up to 8 configurations switchable in real time





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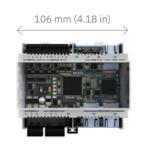


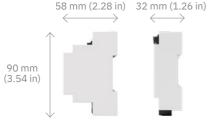




Control Unit 200 SERIES

PROFIsafe, Ethernet and digital I/O





Safety Parameters:

- SIL2 (IEC 61508)
- PLd, Cat. 3 (ISO 13849)
- Performance Class D (IEC/TS 62998-1)

C201A | C201B

PROFIsafe, Ethernet and digital I/O

C201 is the most advanced control unit for Inxpect safety radars, with the widest range of communication options. The Inxpect Safety Application allows the configuration of sensitivity levels, safety functions, size of detection fields, and the functionality of the I/O ports of the control unit.

Safety fieldbus

Currently supporting PROFIsafe fieldbus protocol.

Secure Ethernet

Remote configuration and management protected by industry standard cyber security protocols.

USB

Local configuration option.

Digital inputs

The system has two TYPE3 dual channel inputs. Alternatively, the four channels can be used as single channel digital inputs (category 2). Supporting the following functions:

- muting signal
- emergency stop signal
- · restart signal

Four Output Signal Switching Devices

As safety outputs: two dual-channel safety OSSDs.

<u>As auxiliary outputs:</u> four auxiliary outputs, which can be configured as signal restart feedback, fault, muting status.

Dynamic setting of detection fields

The PROFIsafe connection allows to have up to 32 configurations switchable in real time.

SD backup, SD restore

Configurations and login credentials can be saved and restored via microSD card (only for C201B).

Technical details

C201A-PNS [Core Line]

C201A-PX1 [eXtended Line]*
Part No. 90301011.2B0

C201B-PX1 [eXtended Line]*
Part No. 90301111,2B0

Part No. **90301011**

C201B-P [Core Line]

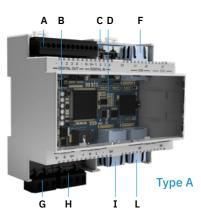
Part No. **90301111**

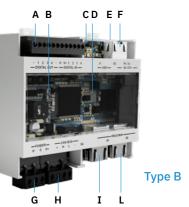
Type A

Type B









- A I/O terminal block
- **B** System status LED
- **C** Micro USB port
- **D** Fieldbus status LED
- **E** SD card (only for C201B)
- **F** Ethernet port
- **G** Power supply terminal block
- **H** CAN bus terminal block for connecting the first sensor
- I Ethernet Fieldbus port n.1
- L Ethernet Fieldbus port n.2

Outputs	4 Outputs Signal Switching Devices (OSSDs) or 2 dual channel safety outputs
Safety outputs	High-side outputs (with extended protection function) Max voltage: 30 V dc Max current: 0.4 A Max power: 12 W
Inputs	2 dual channel TYPE3 digital inputs with common GND 4 single channel TYPE3 digital inputs with common GND
Fieldbus interface	Ethernet based safety fieldbus (PROFIsafe)
MODBUS interface	Ethernet interface for real time data monitoring
Power supply	24 V dc (20-28 V dc) Max current: 1 A (no OSSD)
Max power consumption	5 W (no OSSD)
Assembly	DIN guide
Degree of protection	IP20
Terminals	Section: 1 mm2 Max Current: 4 A with 1 mm2 cables
System configuration	Ethernet, USB

^{*}The eXtended Line supports new advanced functions. It also supports S202A sensors and Inxpect Safety Studio application.

C201 FSOE



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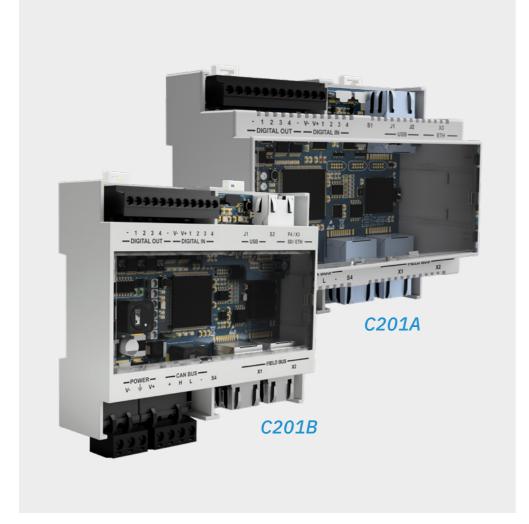








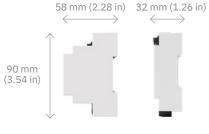




Control Unit 200 SERIES

FSoE, Ethernet and digital I/O





Safety Parameters:

- SIL2 (IEC 61508)
- PLd, Cat. 3 (ISO 13849)
- Performance Class D (IEC/ TS 62998-1)

C201A | C201B

FSoE, Ethernet and digital I/O

C201 is the most advanced control unit for Inxpect safety radars, with the widest range of communication options. The Inxpect Safety Application allows the configuration of sensitivity levels, safety functions, size of detection fields, and the functionality of the I/O ports of the control unit.

Safety fieldbus

Currently supporting Safety over EtherCAT® (FSoE) fieldbus protocol.

Secure Ethernet

Remote configuration and management protected by industry standard cyber security protocols.

USB

Local configuration option.

Digital inputs

The system has two TYPE3 dual channel inputs. Alternatively, the four channels can be used as single channel digital inputs (category 2). Supporting the following functions:

- · muting signal
- emergency stop signal
- restart signal

Four Output Signal Switching Devices

As auxiliary outputs: two dual-channel safety OSSDs.

<u>As auxiliary outputs:</u> four auxiliary outputs, which can be configured as signal restart feedback, fault, muting status.

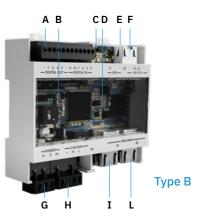
Dynamic setting of detection fields

The FSoE connection allows to have up to 32 configurations switchable in real time.

SD backup, SD restore

Configurations and login credentials can be saved and restored via microSD card (only for C201B).

A B C D F



- A I/O terminal block
- **B** System status LED
- **C** Micro USB port
- **D** Fieldbus status LED
- **E** SD card (only for **C201B**)
- **F** Ethernet port
- **G** Power supply terminal block
- **H** CAN bus terminal block for connecting the first sensor
- I Ethernet Fieldbus port n.1
- L Ethernet Fieldbus port n.2

Technical details

C201A-F [Core Line]

Part No. 90301012

C201B-F [Core Line]

Part No. **90301112**

C201A-FX1 [eXtended Line]*
Part No. 90301012.2B0

C201B-FX1 [eXtended Line]*
Part No. 90301112,2B0

Type A

Type B





Outputs	4 Outputs Signal Switching Devices (OSSDs) or 2 dual channel safety outputs
Safety outputs	High-side outputs (with extended protection function) Max voltage: 30 V dc Max current: 0.4 A Max power: 12 W
Inputs	2 dual channel TYPE3 digital inputs with common GND 4 single channel TYPE3 digital inputs with common GND
Fieldbus interface	Ethernet based safety fieldbus (Safety over EtherCAT® FSoE)
MODBUS interface	Ethernet interface for real time data monitoring
Power supply	24 V dc (20–28 V dc) Max current: 1 A (no OSSD)
Max power consumption	5 W (no OSSD)
Assembly	DIN guide
Degree of protection	IP20
Terminals	Section: 1 mm2 Max Current: 4 A with 1 mm2 cables
System configuration	Ethernet, USB

^{*}The eXtended Line supports new advanced functions. It also supports S202A sensors and Inxpect Safety Studio application.















Control Unit 200 SERIES

CIP Safety™, Ethernet and digital I/O





Safety Parameters:

- SIL2 (IEC 61508)
- PLd, Cat. 3 (ISO 13849)
- Performance Class D (IEC/TS 62998-1)

C201B-C

CIP Safety™, Ethernet and digital I/O

C201B-C provides a safety communication based on CIP Safety[™] on EtherNet/IP[™]. The Inxpect Safety Application allows the configuration of sensitivity levels, safety functions, size of detection fields, and the functionality of the I/O ports of the control unit.

Safety fieldbus

CIP Safety™ over EtherNet/IP™.

Secure Ethernet

Remote configuration and management protected by industry standard cyber security protocols.

USB

Local configuration option.

Digital inputs

The system has two TYPE3 dual channel inputs. Alternatively, the four channels can be used as single channel digital inputs (category 2). Supporting the following functions:

- · muting signal
- emergency stop signal
- restart signal

Four Output Signal Switching Devices

<u>As safety outputs:</u> two dual-channel safety OSSDs. <u>As auxiliary outputs:</u> four auxiliary outputs, which can be configured as signal restart feedback, fault, muting status.

Dynamic setting of detection fields

The connection allows to have up to 32 configurations switchable in real time.

SD backup, SD restore

Configurations and login credentials can be saved and restored via microSD card.







- A I/O terminal block
- **B** System status LED
- **C** Micro USB port
- D Status LEDE SD card
- JD Calu
- **F** Ethernet port
- **G** Power supply terminal block
- **H** CAN bus terminal block for connecting the first sensor
- I Ethernet Fieldbus port n.1
- L Ethernet Fieldbus port n.2









Outputs	4 Outputs Signal Switching Devices (OSSDs) or 2 dual channel safety outputs
Safety outputs	High-side outputs (with extended protection function) Max voltage: 30 V dc Max current: 0.4 A Max power: 12 W
Inputs	2 dual channel TYPE3 digital inputs with common GND 4 single channel TYPE3 digital inputs with common GND
Fieldbus interface	CIP SafetyTM over EtherNet/IPTM
MODBUS interface	Ethernet interface for real time data monitoring
Power supply	24 V dc (20-28 V dc) Max current: 1 A (no OSSD)
Max power consumption	5 W (no OSSD)
Assembly	DIN guide
Degree of protection	IP20
Terminals	Section: 1 mm2 Max Current: 4 A with 1 mm2 cables
System configuration	Ethernet, USB

*The eXtended Line supports new advanced functions. It also supports S202A sensors and Inxpect Safety Studio application.

C202 MODBUS



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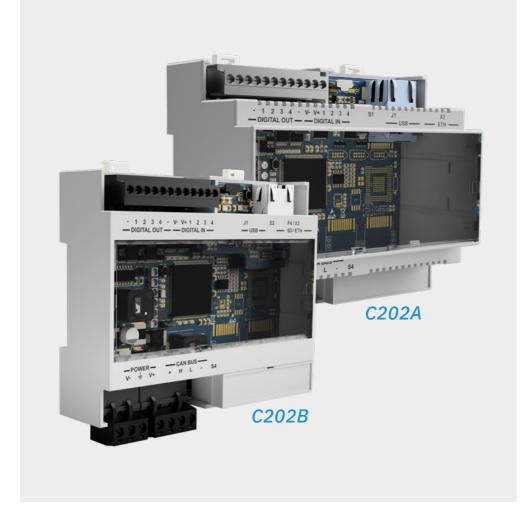








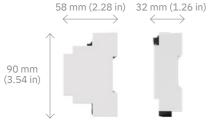




Control Unit 200 SERIES

Ethernet and digital I/O





Safety Parameters:

- SIL2 (IEC 61508)
- PLd, Cat. 3 (ISO 13849)
- Performance Class D (IEC/TS 62998-1)

C202A | C202B

Ethernet and digital I/O

C202 offers both USB and Ethernet communication interfaces, providing local and remote configuration options. In both cases, the Inxpect Safety Application allows the configuration of sensitivity levels, safety functions, size of detection fields, and the functionality of the I/O ports of the control unit.

Secure Ethernet

Remote configuration and management protected by industry standard cyber security protocols.

USB

Local configuration option.

Digital inputs

The system has two TYPE3 dual channel inputs. Alternatively, the four channels can be used as single channel digital inputs (category 2). Supporting the following functions

- muting signal
- emergency stop signal
- · restart signal

Four Output Signal Switching Devices

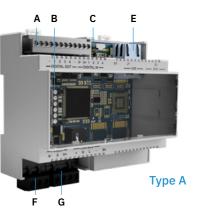
<u>As safety outputs:</u> two dual-channel safety OSSDs. <u>As auxiliary outputs:</u> four auxiliary outputs, which can be configured as signal restart feedback, fault, muting status.

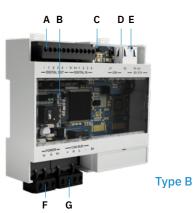
Dynamic setting of detection fields

There are up to 8 configurations switchable in real time.

SD backup, SD restore

Configurations and login credentials can be saved and restored via microSD card (only for **C202B**).





- A I/O terminal block
- **B** System status LED
- **C** Micro USB port
- **D** SD card (only for C202B)
- **E** Ethernet port
- **F** Power supply terminal block
- **G** CAN bus terminal block for connecting the first sensor

Technical details

Part No. 90303011









C202A-X1 [eXtended Line]*
Part No. 90303011.2B0



C202B [Core Line]
Part No. 90303111



C202B-X1 [eXtended Line]*
Part No. 90303111.2B0

Outputs	4 Outputs Signal Switching Devices (OSSDs) or 2 dual channel safety outputs
Safety outputs	High-side outputs (with extended protection function) Max voltage: 30 V dc Max current: 0.4 A Max power: 12 W
Inputs	2 dual channel TYPE3 digital inputs with common GND 4 single channel TYPE3 digital inputs with common GND
MODBUS interface	Ethernet interface for real time data monitoring
Power supply	24 V dc (20-28 V dc) Max current: 1 A (no OSSD)
Max power consumption	5 W (no OSSD)
Assembly	DIN guide
Degree of protection	IP20
Terminals	Section: 1 mm² Max Current: 4 A with 1 mm² cables
System configuration	Ethernet, USB

*The eXtended Line supports new advanced functions. It also supports S202A sensors and Inxpect Safety Studio application.



C203 USB



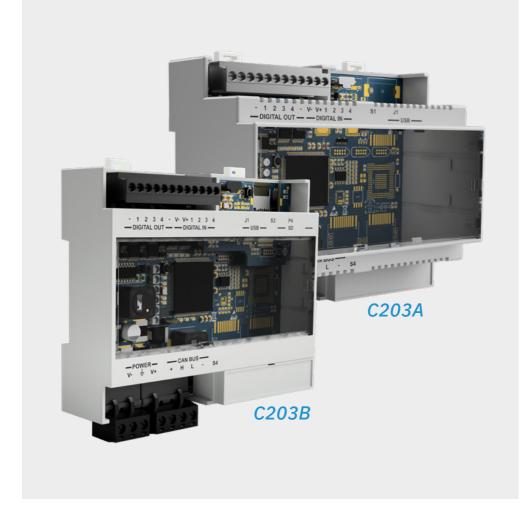
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Control Unit 200 SERIES

Digital I/O

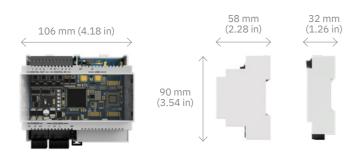
Safety Parameters:

• PLd, Cat. 3 (ISO 13849)

• Performance Class D

(IEC/TS 62998-1)

• SIL2 (IEC 61508)



C203A | C203B

Digital I/O

C203 provides basic but robust control functionality for any Inxpect safety radar sensor. The Inxpect Safety Application works via USB to configure the sensitivity levels, safety functions, size of detection fields, and the functionality of the I/O ports of the control unit.

USB

Local configuration option.

Digital inputs

The system has two TYPE3 dual channel inputs. Alternatively, the four channels can be used as single channel digital inputs (category 2). Supporting the following functions:

- muting signal
- emergency stop signal
- · restart signal

Four Output Signal Switching Devices

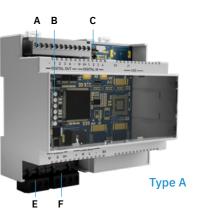
<u>As safety outputs:</u> two dual-channel safety OSSDs. <u>As auxiliary outputs:</u> four auxiliary outputs, which can be configured as signal restart feedback, fault, muting status.

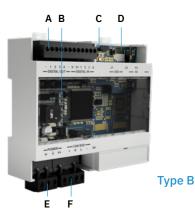
Dynamic setting of detection fields

There are up to 8 configurations switchable in real time.

SD backup, SD restore

Configurations and login credentials can be saved and restored via microSD card (only for **C203B**).





- A I/O terminal block
- **B** System status LED
- **C** Micro USB port
- **D** SD card (only for C203B)
- **E** Power supply terminal block
- **F** CAN bus terminal block for connecting the first sensor

Technical details





C203A [Core Line]
Part No. 90304011



C203A-X1 [eXtended Line]*
Part No. 90304011.2B0



C203B [Core Line] Part No. **90304111**



C203B-X1 [eXtended Line]*
Part No. 90304111.2B0

Outputs	4 Outputs Signal Switching Devices (OSSDs) or 2 dual channel safety outputs
Safety outputs	High-side outputs (with extended protection function) Max voltage: 30 V dc Max current: 0.4 A Max power: 12 W
Inputs	2 dual channel TYPE3 digital inputs with common GND 4 single channel TYPE3 digital inputs with common GND
Power supply	24 V dc (20–28 V dc) Max current: 1 A (no OSSD)
Max power consumption	5 W (no OSSD)
Assembly	DIN guide
Degree of protection	IP20
Terminals	Section: 1 mm² Max Current: 4 A with 1 mm² cables
System configuration	USB

*The eXtended Line supports new advanced functions. It also supports S202A sensors and Inxpect Safety Studio application.





RUGGEDIZED CONTROL UNITS



C201B-RA-P/-F/-C

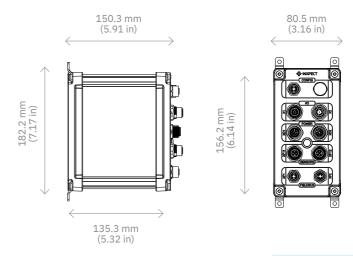
Which ruggedized control unit fits my needs?

The ruggedized control units are only available in the eXtended Line, therefore they are supported by the new Inxpect Safety Studio.

RUGGEDIZED CONTROL UNITS

Technical specifications

		Ethernet interface	I/O connector	Power IN/OUT	Safety Fieldbus
RUGGEDIZED	C201B-RA-P				PROFIsafe
	C201B-RA-F				FSoE
	C201B-RA-C			⊘	CIP Safety™
	C202B-RA				-





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Certifications







UNMATCHED RELIABILITY AND DURABILITY

Discover the state-of-the-art ruggedized Inxpect control unit, designed to deliver exceptional performance even in the harshest conditions, making it the ideal choice for challenging environments and industrial applications.



Key Features:

IP67 Certification: Maximum protection against dust and water.

Temperature range: [-30, +50]°

Resistance to vibrations in accordance with:

- IEC 60068-2-64 Fh (equipment in wheeled vehicles, Spectrum A.3)
- IEC/EN 61496-1:2020 (ground vehicle installations, 5M3)
- ISO 15003:2019 (agricultural machinery, L3)

Ideal Applications:

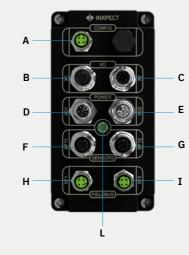
Heavy Industry: Perfect for environments with high levels of dust and humidity. **Agricultural Sector:** Withstands weather conditions and soil environments. **Construction:** Reliable on construction sites, resistant to dust and vibrations.

The system is equipped with a **Type B** Control Unit.

C201B-RA-F

FSoE, Ethernet & digital I/O

Part No. **90301B12.210**

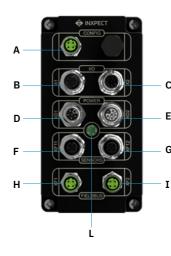


- A Ethernet connector
- **B** I/O connector (Output)
- **c** I/O connector (Input)
- Power IN connector
- E Power OUT connector
 - Sensors connector
- **G** Sensors connector
- **H** Fieldbus connector
- I Fieldbus connector
- L Power status led

C201B-RA-C

CIP Safety™, Ethernet & digital I/O

Part No. 90301B13.210

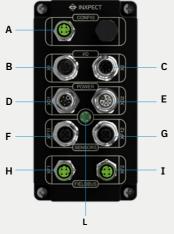


- A Ethernet connector
- **B** I/O connector (Output)
- **C** I/O connector (Input)
- **D** Power IN connector
- E Power OUT connectorF Sensors connector
- G Sensors connector
- H Fieldbus connector
- I Fieldbus connector
- L Power status led

C201B-RA-P

PROFIsafe, Ethernet & digital I/O

Part No. **90301B11.210**

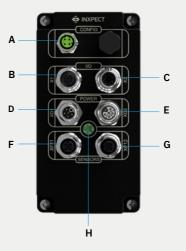


- A Ethernet connector
- **B** I/O connector (Output)
- **C** I/O connector (Input)
- **D** Power IN connector
- **E** Power OUT connector
- Sensors connector
- G Sensors connectorH Fieldbus connector
- I Fieldbus connector
- L Power status led

C202B-RA

Ethernet & digital I/O

Part No. 90303B11.210



- A Ethernet connector
- **B** I/O connector (Output)
- C I/O connector (Input)
- **D** Power IN connector
- E Power OUT connector
- **F** Sensors connector
- **G** Sensors connector
- **H** Power status led







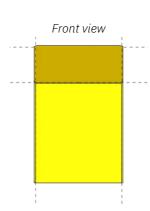
Adjustable protector kit

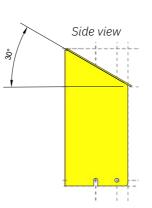
for indoor and outdoor applications

These adjustable protector kits are used for installing Inxpect Safety Radar Sensors in harsh indoor and outdoor environments. The purpose of the support is to house the sensor at the desired height and protect it from the sides and from above.

INDOOR VERSION Part No. 90302ZAC

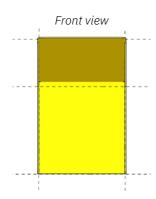
30 degree slope downward [RAL1003 powder coated metal]

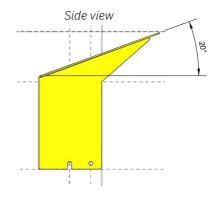




OUTDOOR VERSION Part No. 90302ZAD

20 degree slope upward [RAL1003 powder coated metal]





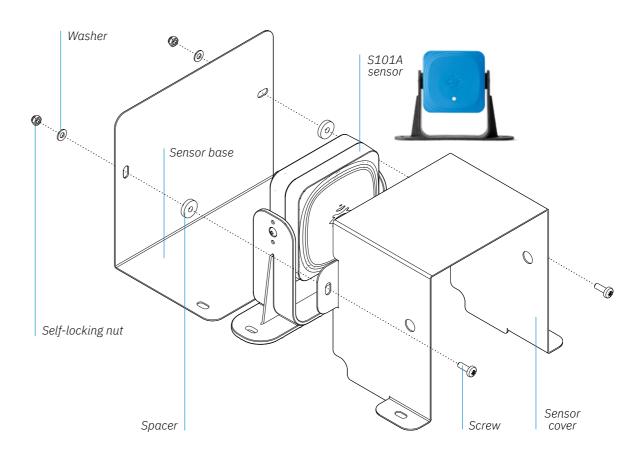


Metal protector

for Radar Sensor 100 SERIES
[AISI 304 Stainless steel]

Part No. **90202ZAA**

The metal protector ensures that Inxpect S101A sensors perform at their best even in the most challenging environmental conditions, increasing their immunity to spurious detections while reducing the possibility of damage caused by accidental impact.





MicroSD card

for Control Units Type B

Part No. **X0000011**







Which cables and lengths do you need for your system?

Find out with our utility: Cable Validator (Sign in to Inxpect Tools).



Cables

Control unit to sensor cable:

CAN bus, totally shielded.

Control unit side: free wires

Sensor side: connector M12, female, 5 poles, A-coded,

angled 90°

Length	Radar Sensor 100 SERIES	Radar Sensor 200 SERIES
5 m	-	Part No. 08000110
10 m	Part No. 08000004	Part No. 08000111
15 m	Part No. 08000006	Part No. 08000112
20 m	-	Part No. 08000113

Sensor to sensor cable:

CAN bus, totally shielded.

IN side: connector M12, female, 5 poles,

A-coded, angled 90°

OUT side: connector M12, male, 5 poles,

A-coded, angled 90°

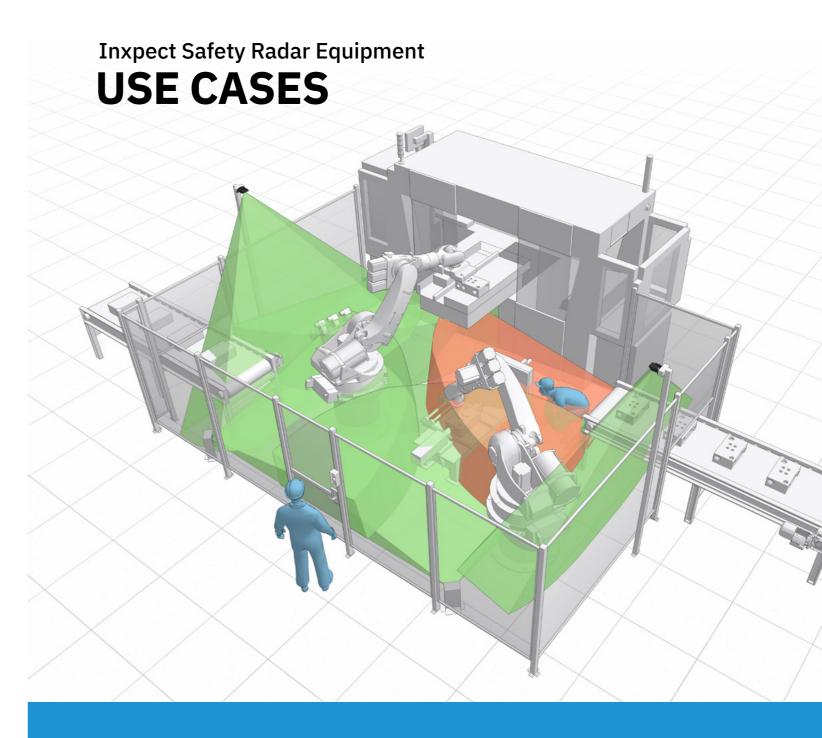
Length	Radar Sensor 100 SERIES	Radar Sensor 200 SERIES
1 m	-	Part No. 08000126
3 m	Part No. 08000007	Part No. 08000120
5 m	Part No. 08000012	Part No. 08000121
10 m	-	Part No. 08000122
15 m	Part No. 08000017	Part No. 08000123



Bus terminator:

M12, male, 5 poles, A-coded, straight 180°, resistance 120 Ω

Part No. **07000003**





Restart prevention

Higher safety in robotic cells

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 by preventing unintentional restart while operator is in the dangerous area.

Main features:

- Natively 3D: volumetric coverage
- Adaptive to changing scenarios
- Prevent unintentional restarts • Simplify access procedures
- Remove human error
- Improve productivity

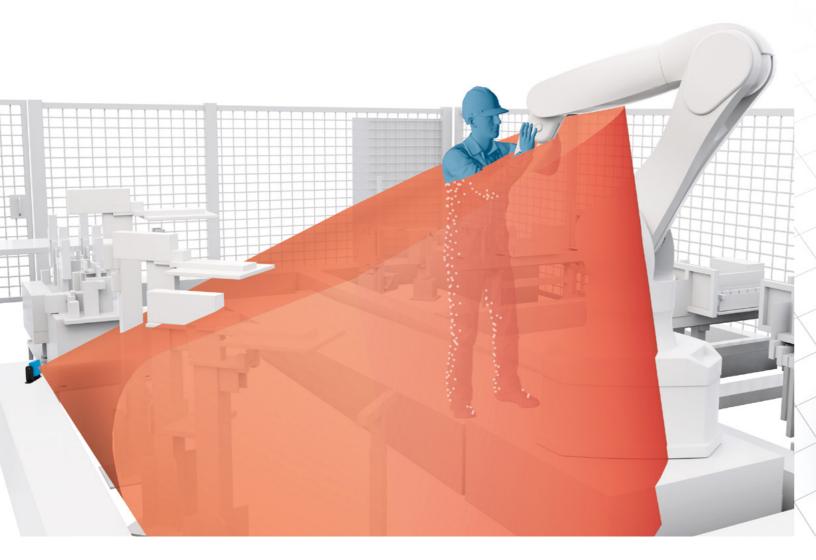
Restart prevention

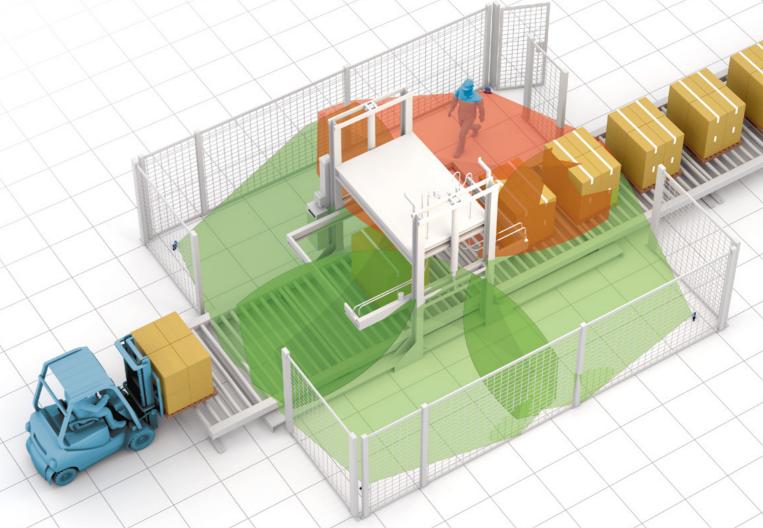
Higher safety in wrapping stations

Inxpect redefines the state of the art of automatic wrapping and strapping stations. Inxpect 3D radars simplify human/machine interaction, prevent unintentional restarts and reduce residual risks, increasing efficiency and productivity.

- Natively 3D: volumetric coverage
- Adaptive to changing scenarios
- Prevent accidental restart
- Simplify access procedures
- Improve human/machine interaction
- · Remove human error
- · Improve productivity









Smart collision avoidance

Indoor application: Automated Guided Vehicle

Inxpect brings dynamic safety to AGV. Inxpect 3D radars are ideal anti-collision sensor: they're robust to dust, debris, smoke, rain and light reflections. They are effective at detecting suspending loads, provide volumetric coverage and fit perfectly for indoor and outdoor applications.

Main features:

- Natively 3D: volumetric coverage
- Effective at detecting suspended loads
- Robust to smoke, dust, debris, rain, fog, snow and light reflections
- Indoor and outdoor applications

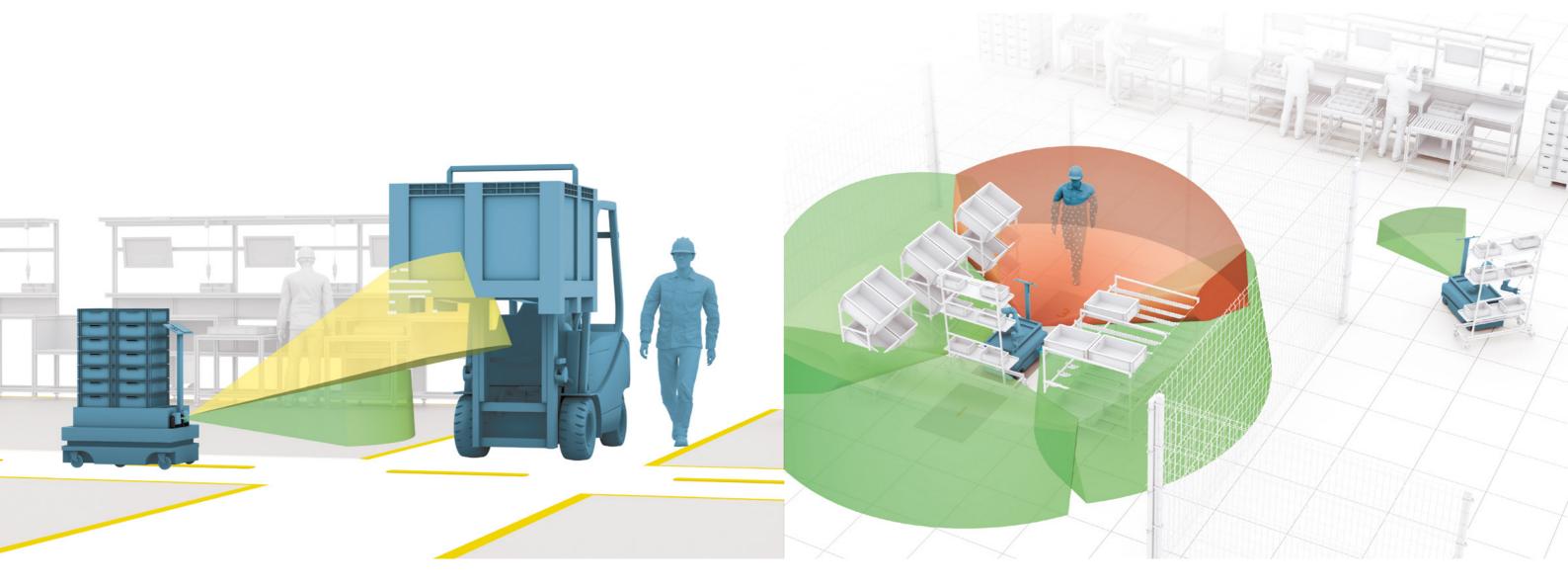
Smart collision avoidance

Indoor application: Pick and Place

Inxpect brings dynamic safety to pick and place applications. Inxpect 3D radar simplifies human/machine interaction, provides highly dynamic protection and allows for simple programming. Being adaptive to changing scenarios, Inxpect 3D radar increases efficiency and productivity.

- Natively 3D: volumetric coverage
- Adaptive to changing scenarios
- Highly dynamic protection
- Simple programming









Outdoor application: Construction Site

Inxpect ensures maximum safety even in harsh environmental conditions. Dust, fog, rain and swarf generated by production processes do not cause false alarms. The volumetric coverage of Inxpect 3D radars prevents collision with suspended loads or airborne elements.

Main features:

- Robust to smoke, dust, debris, rain, fog, snow and light reflections
- Reduce false alarms
- 3D radar: volumetric protection
- Operating temperature -30° +60°

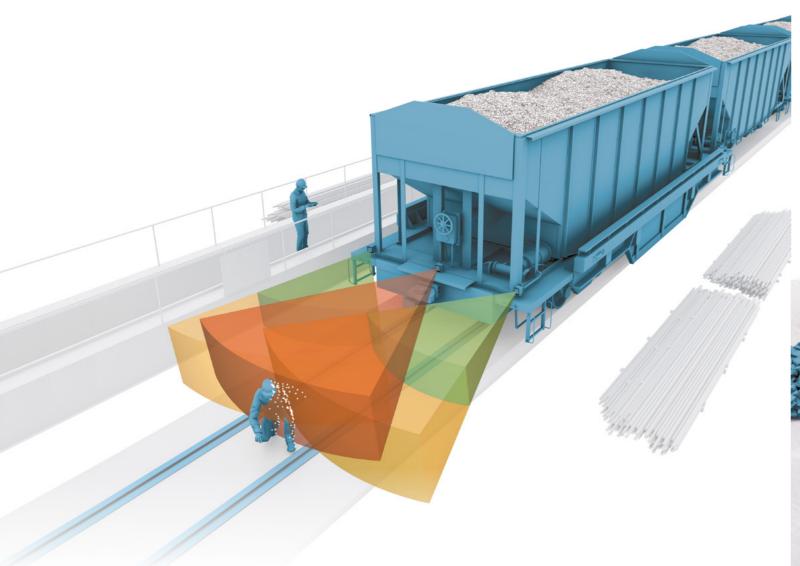
Smart collision avoidance

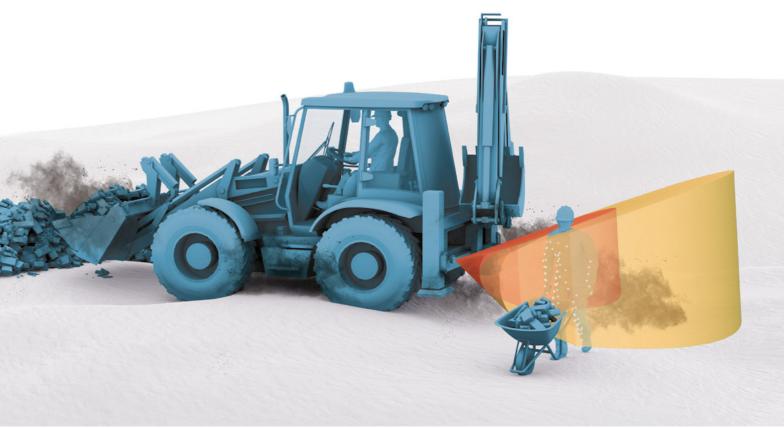
Outdoor application: Construction Site

Inxpect ensures maximum safety even in harsh environmental conditions. Inxpect 3D radars are an excellent aid to monitoring of the movement areas of operating machines because they allow to have a complete analysis of the area, even on multiple levels.

- Robust to smoke, dust, debris, rain, fog, snow and light reflections
- Reduce false alarms
- Indoor and outdoor applications
- 3D radar: volumetric protection
- Operating temperature -30° +60°









Access protection

Dynamic safety for mobile gantry machining

Inxpect redefines safety for mobile gantry machining. Thanks to the volumetric coverage, Inxpect 3D radars secure both the floor and the work surface, always ensuring maximum safety for operators.

Main features:

- Robust to debris: no more false alarms
- Natively 3D: volumetric coverage (for both floor and work surface areas)
- Prevent unintentional restarts while operator is in the dangerous area
- · Remove human error

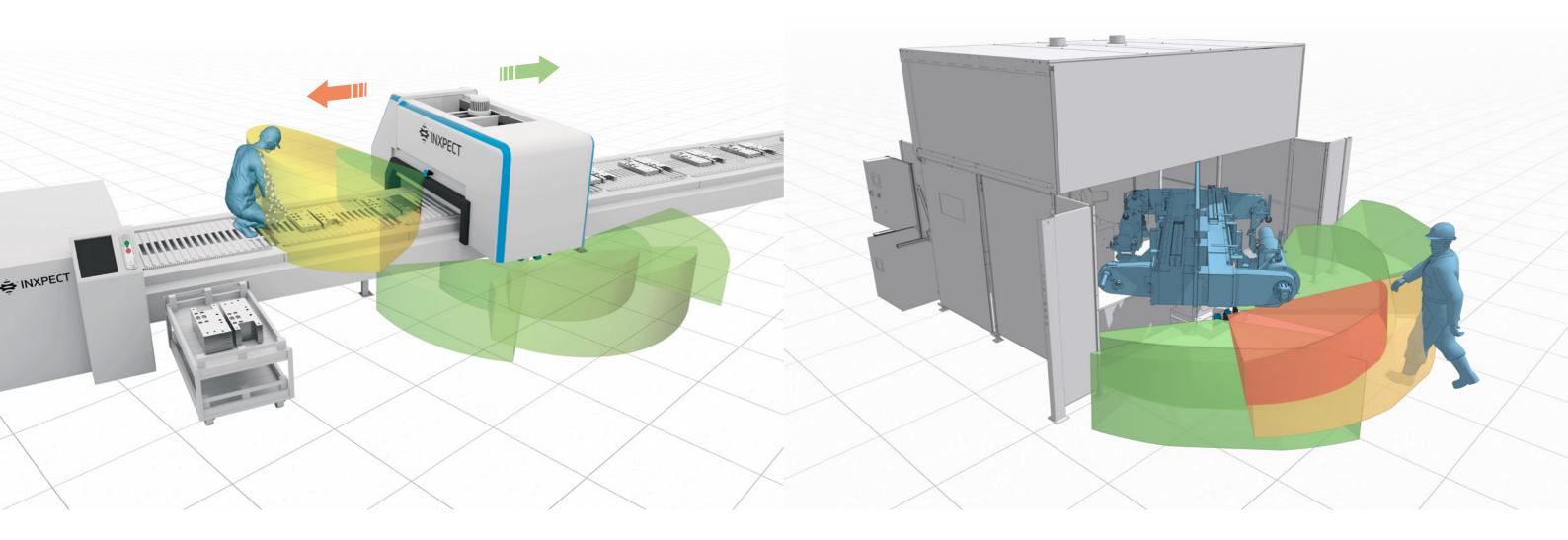
Access protection Higher safety in robotic welding systems

Inxpect redefines safety for robotic welding systems with double electric rotary tables.

Inxpect 3D radars can be positioned to create a volumetric barrier for access protection, increasing the safety of the setup while dramatically improving productivity.

- Natively 3D: volumetric coverage
- Robust to debris: no more false alarms
- Virtually remove the need for protection barriers
- Simplify human/machine interaction
- Speed up the working process
- · Improve productivity







Access protection

Dynamic safety for robotic cells

Inxpect redefines safety for robotic cells. Thanks to the dynamic configurations, Inxpect's 3D radar sensors monitor the entrance to the dangerous area, always guaranteeing maximum safety for operators and at the same time without ever stopping the operating cycle of the machinery.

Main features:

- Dynamic configurations
- 3D radar: volumetric protection
- Simplify human/machine interaction
- Improve productivity

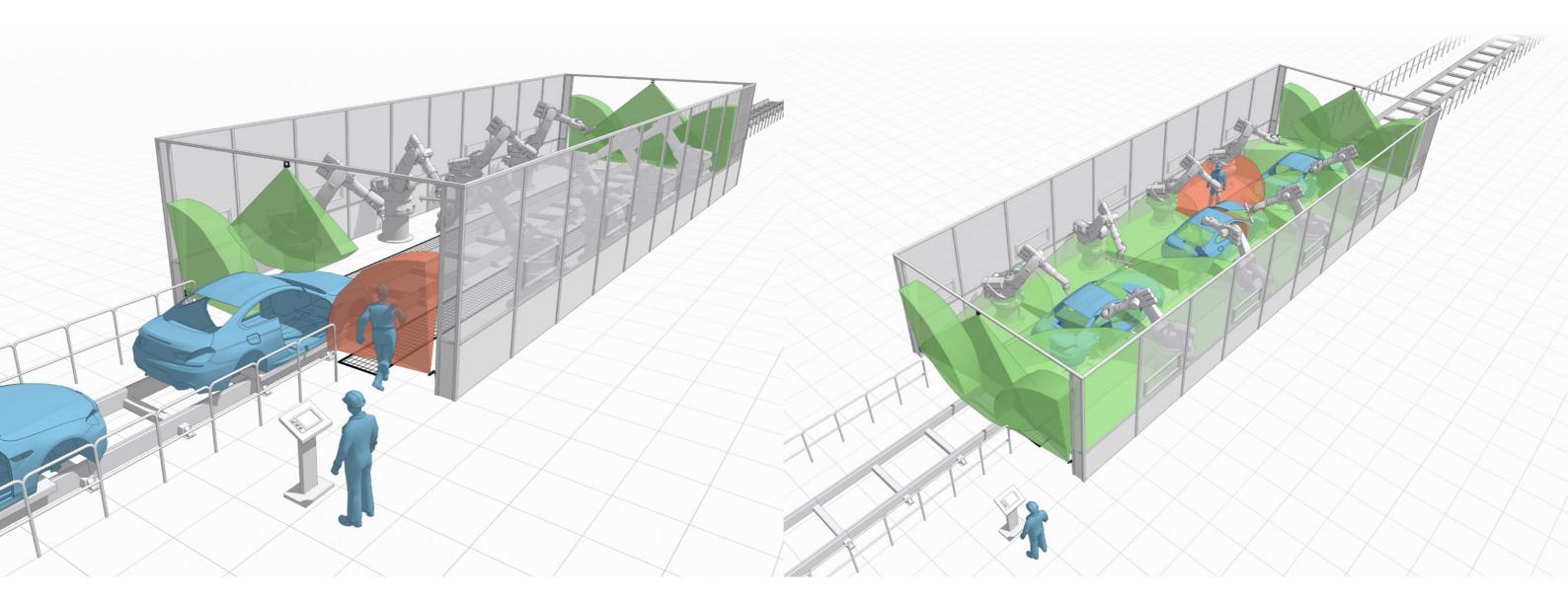
Restart prevention

Higher safety in automation robotic cells

Inxpect removes the human error for robotic cells. Inxpect 3D radars thanks to proprietary algorithms prevent unintentional restarts while operator is in the dangerous area and reduce residual risks, increasing efficiency and productivity.

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







Restart prevention

Higher safety in automatic palletizing applications

Inxpect safely monitors access to loading/unloading area. This solution combines optical barriers and radars, redefining the state of the art and reducing residual risk. Inxpect 3D radars ensure the application safety: detecting if there is a operator in the area and stopping the machine until the area is clear.

Main features:

- Natively 3D: volumetric coverage (for both floor and work surface areas)
- · Prevent unintentional restarts
- Highly dynamic protection
- Reduce residual risk
- Improve productivity

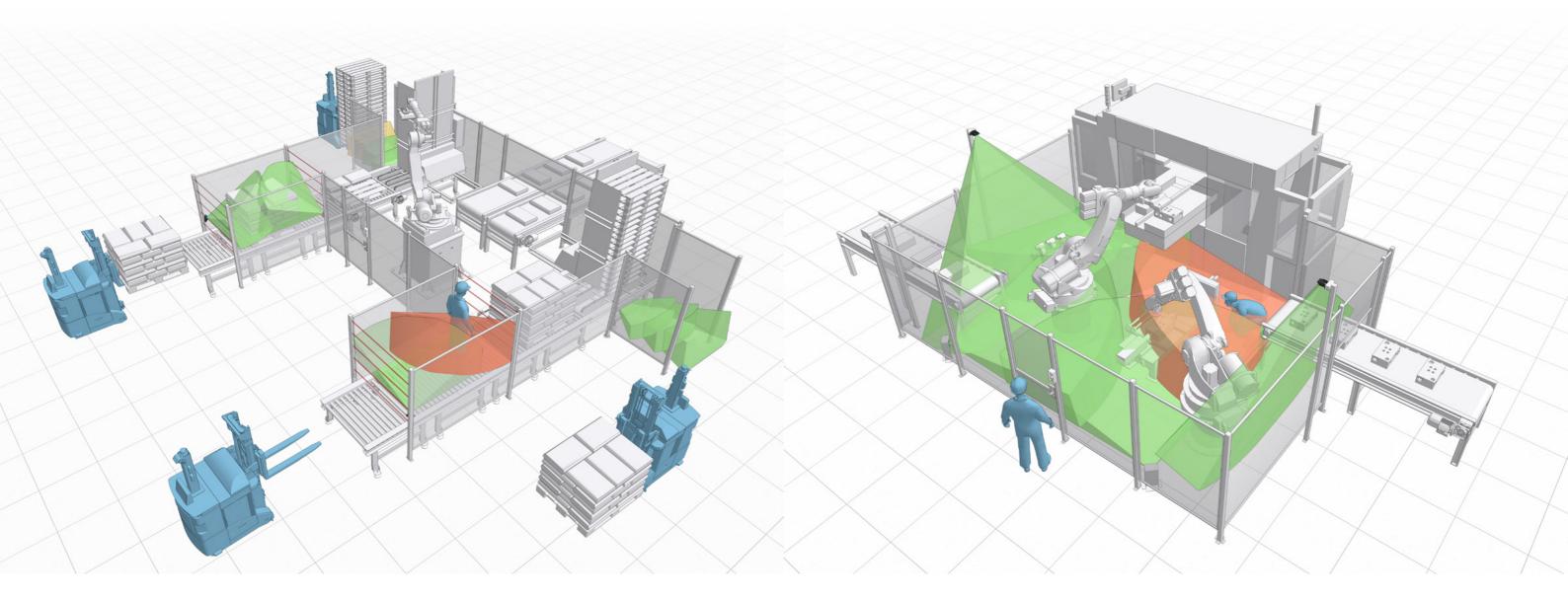
Restart prevention

Higher safety in automatic loading/unloading CNC applications

Inxpect redefines the state of the art of automatic loading/unloading CNC applications. Inxpect 3D radars simplify human/machine interaction, prevent unintentional restarts and reduce residual risks, increasing efficiency and productivity.

- Natively 3D: volumetric coverage
- · Prevent accidental restart
- Simplify access procedures
- Improve human/machine interaction
- · Remove human error
- Improve productivity













Inxpect S.p.A.

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