

S201A-W

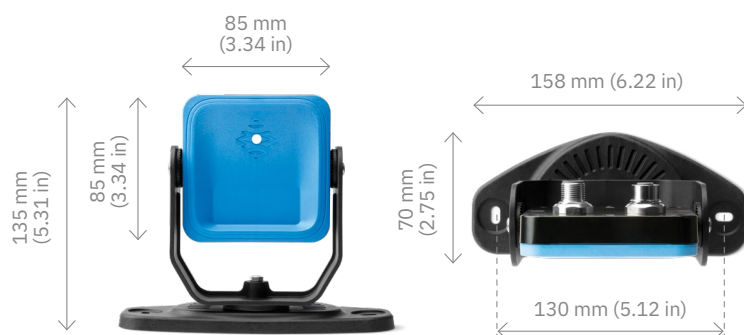


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Safety Radar Sensor 200 SERIES

Advanced FOV



Safety Parameters:

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

S201A-W

Advanced FOV

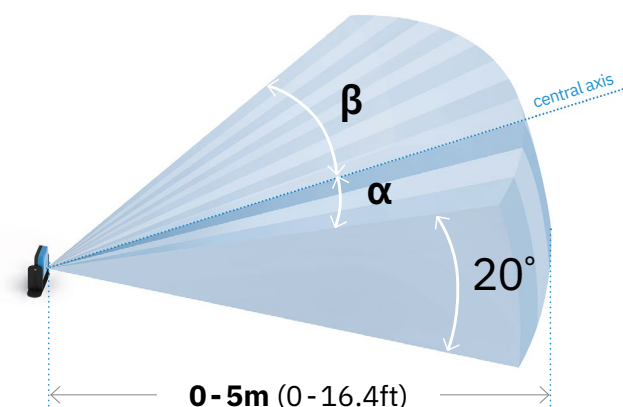
The **NEW S201A-W** sensor has advanced field of view, i.e. the user can choose whether to use a symmetrical FOV, an asymmetrical FOV (asymmetric angles with respect to the central axis of the sensor) or a corridor FOV (with the sides cut off where required by the application). More and more modularity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

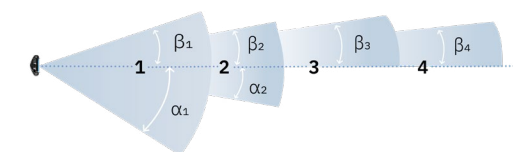
Field of view 0 - 5m [min. set distance: 0.2m]
Horizontal Plane: 10-100°
Vertical Plane: 20°

Asymmetrical FOV $\alpha: 0^\circ-50^\circ$ $\beta: 0^\circ-50^\circ$



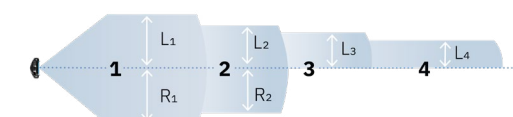
Four independent detection fields with freely adjustable angles (10°-100°) and a maximum total distance of 5 m.

Asymmetrical FOV $\alpha \neq \beta$

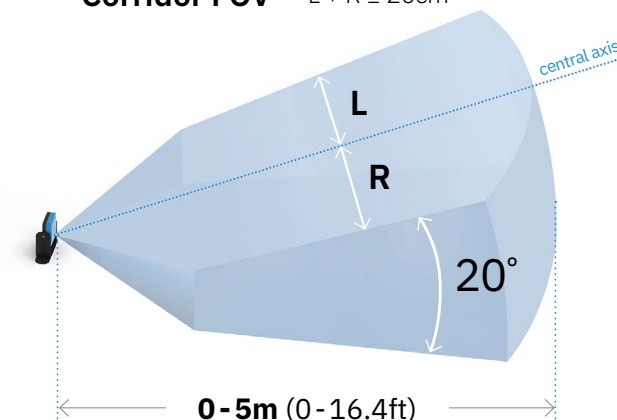


The aperture of each field is dynamically adjustable in 5° increments over a range of 10° to 100°.

Corridor FOV $\alpha = \beta = 50^\circ$



Corridor FOV $L + R \geq 20\text{cm}$



Part No. **90302111**

5m
Range sensor

4s
Restart timeout

2m/s
Max target speed

20°
Vertical plane

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 $\pm$ 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)

3-axis bracket:
the sensor can rotate on three axis (x, y, z).

