

Radar Predict

Detection Systems

AI Side-detection

Brigade's Radar Predict is the latest innovation in side-detection safety, specifically designed to protect cyclists from collisions with HGVs. The advanced radar system uses AI technology to detect a potential collision by analysing data such as speed and direction of both the vehicle and cyclist. By differentiating between static and moving objects, the Radar Predict algorithm alerts the driver when an impact with a cyclist is likely.

HGVs pose a risk to both pedestrians and cyclists, with collisions involving a large vehicle far more likely to prove fatal than those involving a car. Many collisions between cyclists and HGVs occur because the driver has limited direct vision (the ability to see what is outside their cab without using indirect means of mirrors or cameras).

The single dual-radar unit is fitted on the nearside of the truck and gives complete coverage to the side of the vehicle, including the trailer unit. The trailer discovery mode detects whether the vehicle is fitted with a trailer and prevents articulation causing false alerts. The driver is alerted if a cyclist enters the detection zone and receives a second warning if a collision is predicted.

- Compatible with both rigid and articulated vehicles, offering versatility in application
- 180° Cyclist detection active when vehicle speed is below 20 mph
- Predicts cyclist collisions without reporting on static objects reducing false alerts for the driver
- Quick and easy installation, no CAN connection to the vehicle

X1 In-cab display



x1 Dual-radar exterior unit



About us

Brigade Electronics is a market leader of safety devices, with solutions to suit all commercial vehicles and mobile plant. Our complementary range of safety devices help prevent collisions by assisting the driver whilst protecting workers, pedestrians and cyclists.

Radar Predict AI Sensor System

77GHz Radar Predict sensor system with AI - Left side

Model Number: RP-001 | Part Number: 7500

77GHz Radar Predict sensor system with AI - Right side

Model Number: RP-010 | Part Number: 7625



Voltage
9-32Vdc



IP Rating
IP69K Sensor



Detection Length
46m



Warranty
3 years



Detection Width
4.5m



Contents

- 1x dual radar sensor unit
- 1 x Inertial measurement unit module
- 1 x display
- 1 x radar bracket
- Radar cable



Sensor Size (WxHxD)
115 x 95 x 41mm

Features

- 180° cyclist side detection
- Calculates if a collision is likely in the nearside blindspot
- Covers nearside of a vehicle
- 3 stage Visual alert when a cyclist is detected
- Audible and visual alert when collision is predicted
- Differentiates between cyclists and vehicles/other road users



Sensor Size With Bracket (WxHxD)
200 x 110 x 43.5mm



Display Size With Bracket (WxHxD)
131 x 63 x 42mm

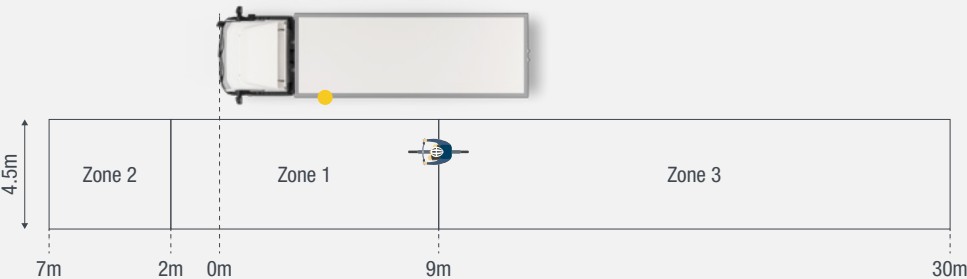
- Designed for rigid and articulated vehicles
- System active under 30Km/h
- Quick and easy installation
- Compact and rugged design for harsh environments
- Automatic trailer recognition
- Operating frequency: 76-77GHz

Power

- Power consumption: 6.5 Watts

Durability & Standards

- Operating temperature: -40 to +85°C
- CE marked
- FCC approved
- IC approved
- E-Marked: UNECE R10 compliant
- Complies with UNECE reg151 requirements
- Meets 2024 Direct Vision Standard BSIS requirements



Visit our website **brigade-electronics.com** or scan the QR code for more information, individual specifications and to view our full range of safety solutions.

