



Cyclear® Prevent, Warn, Detect

CODE: ISS - I - CYCFS

OVERVIEW

Cyclear® enhances the safety of vulnerable road users by detecting the passing cyclist and audibly alerting the driver. Thus preventing incidents and fatalities, as well as protecting drivers from the trauma of being involved in such events.

The Cyclear system comprises an illuminated image of a bicycle with a 'strike' through it, which only runs when the left indicator is activated. During testing it has proven unambiguous with the message being universally understood and effective. Adhesive 'Prohibition' signs are unpopular as there are no laws prohibiting undertaking which is sometimes necessary. The 'strike' is only visible for a very short period of time, therefore no preventing undertaking when 'safe' to do so.

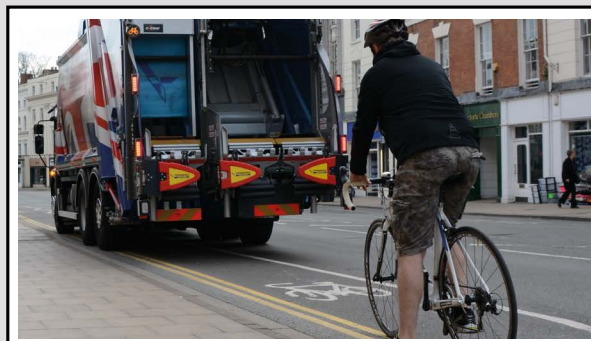
The audible speaker alerts cyclists and vulnerable road users when the vehicle is turning left as a second tier warning. These preventative measures are coupled with an intelligent sensor arrangement that detects cyclists and alerts the driver if he or she is being undertaken, this does not require the indicator to operate.

Every year in this country around 19,000 cyclists are killed or injured in reported road accidents, including around 3,000 who are killed or seriously injured.

- Around 75% of fatal or serious cyclist accidents occur in urban areas
- Around half of cyclist fatalities occur on rural roads
- 80% occur in daylight
- One in 13 cyclists hit by a lorry will die, compared to one in 652 of those hit by a car. Lorry collisions are 50 times more dangerous
- Nearly 90% of deaths occurred at or near a junction
- 55% of deaths occurred when lorries were making a left turn

Phillip Quelch, National Fleet & Plant Manager, Serco:

"We have been looking for the right technology and have worked closely with ISS in their development of Cyclear™. We trialled the system in Wandsworth and the feedback from our drivers was unequivocal; they noticed a considerable change in the behaviour of cyclists who were much more cautious in approaching the vehicle when it was signalling to turn left."








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TECHNICAL

			
Features	Cyclear	Competitor 1	Competitor 2
Long distance preventative warning for cyclists (LED display)	✓	✗	✗
Anti-false alarm module	✓	✗	Available from ISS
Integrated GPS	✓	✗	✗
Compatible with ISS DVR & 360° hard disc recording for alert capture	✓	✗	✗
LED display universally & internationally recognisable auto dim display for night	✓	✗	✗

Key benefits

- Filters out street furniture and parked cars, reducing false alarms
- Available as separate modules to cater for budget restrictions
- Prevention as well as detection
- Active not passive system
- Clear recognition from cyclists
- Designed and built to FORS standards
- Integrated GPS and Ambient light sensor
- Internationally protected
- Visible in excess of 100ft

With Cyclear, vehicle operators can be safe in the knowledge that they are doing everything possible to provide a safe environment for all concerned. The system has been designed and manufactured in the UK, having undergone 3 years of research, development and testing.

Technical Information	Cyclear Sensor
Input Voltage	12V to 32V
Operating Current	800mA
Operating Temperature	-20°c to +60°c
Sound Level SPL	90db
Sensor Frequency	40kHz to 2kHz
Detection Range	900mm