



Product Specification

SolarLite

Surface Studs

The smart, safe and sustainable option for providing guidance and hazard warning to drivers during the hours of darkness, reducing accident rates by over 70%, reducing environmental impact and saving costs.

The Clearview Intelligence SolarLite™ Surface Stud is a solar powered surface mounted, road stud, designed to provide guidance and advance warning to road users day and night.

Driving or cycling at night can be particularly hazardous, especially in areas where street lighting is either unavailable, not cost effective or environmentally not possible. Clearview provides a sustainable solution with innovative solar powered SolarLite Surface Studs helping to reduce accident rates by over 70% on current UK installations.

Increased visibility

Using ultra bright LEDs (Light Emitting Diodes) the projected light from each stud is ten times greater than the visibility given by traditional retro-reflective studs, and unlike conventional retro-reflecting road studs, SolarLite studs do not rely on headlight efficiency to perform effectively. At a speed of 100km/h (62mph) this can increase the time a driver has to react from 3.2 seconds to over 30 seconds.

Reducing accidents and saving lives

By installing Clearview SolarLite studs, local and regional authorities reduce accident rates and as a consequence significantly cut the amount of road closures and congestion. The studs are particularly effective at sites where there is a high accident risk, often on sharp corners, winding roads with poor delineation and insufficient or non-existent street lighting.

Enhanced hazard warning

The SolarLite Surface Studs are used in both on and off highway applications to heighten awareness of potential hazards, through the active edge delineation of roads, cycle paths, canal towpaths and level crossings. With a range of different colour LED options available to indicate different hazard types or areas, the studs provide a flexible, low cost, sustainable and easy to install option for enhancing safety at critical locations.

On level crossings, the studs have become invaluable in providing clear indication of the safe zones at crossing points, including stop lines.



Key Benefits

- Proven reduction in night time accidents by over 70%
- Whole life cost lower than traditional road studs
- 10 times greater visibility for drivers than traditional reflective road studs
- Visible in adverse weather e.g. fog, rain or surface spray
- Highlights sharp bends, dips in the road and other hazards
- Effective additional driver safety when used in conjunction with street light reduction schemes

Key Features

- Up to 900 metres of visibility
- Reliable all night, all year round performance
- Totally sustainable harnessing free solar energy
- Use where street lighting is either unavailable, not cost effective or environmentally impossible
- Maintenance free - self contained
- Available in amber, red, white, blue or green (uni or bi directional)
- DfT and Network Rail approved



The studs enable crossing users, whether pedestrians, cyclists or motorists to be guided by highly effective, visual markings that do not rely on any other light sources and prevent them from straying off the crossing area and onto the tracks. This means fewer accidents, track closures and fewer delays for rail commuters and road users alike.

Why Solarlite surface studs?

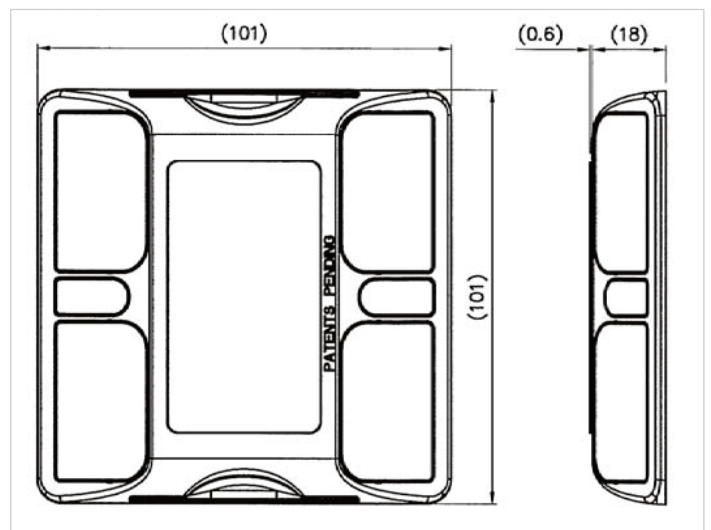
The SolarLite studs are used to reduce accidents such as head on collisions, run-offs at bends or crossings and accidents at junctions, providing advance warning of sharp bends and corners, changes in topography or just to give greater visibility of the road layout ahead on winding roads, such as minor rural roads and non- primary A roads.

Applications

- Lane delineation
- Lane marking and guidance
- Lane merging and on/off ramps
- Accident prevention at black spots
- Hazardous road layouts
- Cycle path delineation
- Level crossing demarcation

Approvals

- UK Department for Transport type approved
- Network Rail Certificate of Acceptance



Specifications

TECHNOLOGY

Active solar voltaic LED

HOUSING MATERIAL

Acrylonitrile Butadiene Styrene (ABS)

HOUSING COLOUR

White

DIMENSIONS

101mm x 101mm x 18.6mm (4" x 4" x 0.75")

REFLECTOR

BS1463 prismatic corner cube

WEIGHT

190g (6.7oz)

REFLECTOR COLOURS

Amber, red, white, green, blue

LED CONFIGURATION

Uni / Bi directional

LED SIZE

5mm

LED PER STUD

1 per uni directional stud

2 per bi directional stud

LED COLOURS

Amber, red, white, green, blue

OPERATING TEMPERATURE RANGE

-20°C to 60°C (-4°F to 140°F)

APPROXIMATE MAX. DISTANCE VIEW

Up to 900m dependant on road layout

LED OUTPUT FREQUENCY

> 100Hz

ACTIVATION

Auto sensor @ approx 100 lux

BATTERY TECHNOLOGY

Nickel metal hydride (NiMH)

TIME ON FULL CHARGE

3 hours @ 100 klux (sunny day)