Innovative approach to platform edge and pathway safety

Clearview Intelligence
making journeys work

Product Specification
SolarLite™
Pathway Studs

The smart, safe and sustainable option for providing increased safety, guidance and hazard warning on cycle paths, footways and railway platforms during the hours of darkness. Reducing the environmental impact and saving costs.

Originators of the Intelligent Road Stud, Clearview Intelligence have designed and developed the solar powered, flush mounted active stud as a pedestrian/cyclist guidance and hazard warning system for use on railway platforms, cycle paths and pathways. With a low profile of less than 4mm and a slip resistant top surface, the Clearview SolarLite F-SL Platform/Pathway stud is unobtrusive, pedestrian and cyclist friendly, providing a flexible and innovative approach to platform edge and pathway safety.

Railway Platform Edge Marking
Reducing the number of incidents and the consequences, costs and network delays associated with passengers either deliberately or accidently coming into contact with moving trains at platform edges is a priority for network, station and train operators alike. Research has shown that the use of blue lighting in such environments has a calming effect on passengers in addition to highlighting the dangers associated with getting too close to the platform edges. Use of the Clearview SolarLite F-SL Platform/Pathway stud contributes to both the calming and platform edge marking benefits reducing these life threatening and devastating incidents. The light provided in this particular application is directed onto the platform area only and no stray light can be seen by, or affect train drivers approaching the platforms. The Clearview SolarLite F-SL Platform/Pathway studs function effectively by charging during daylight hours and automatically illuminating during the hours of darkness even in conjunction with general platform lighting and over platform canopies.

Cycle and Pathway Delineation
The brightly lit solar powered studs mean that during the hours of darkness, cyclists and walkers can identify their route for potentially up to 900 metres ahead. This ensures pathway users are significantly more aware of any hazards they may face such as: kerbs, gateways, junctions with roads, river and canal side edges, surface undulations and other hazards that occur in either urban or rural areas.

Key Benefits
- Provides effective delineation of pathway or platform edges
- Reduces instances of passengers stepping over and or missing the platform edges
- Reduction in the costs and network delays associated with passenger and train incidents
- No light distraction to train drivers when used on platform edges
- Cycle and pedestrian friendly
- Reduces the need for pathway signage and other street furniture
- Reduces the need for light polluting street lighting in many areas
- Totally sustainable, harnessing free solar energy
- Fit and forget operation

Key Features
- Slip resistant top surface
- Up to 900 metres of visibility
- Solar powered with 240 hours of internal energy storage
- Reliable all night, all year round performance
- Can be used where other forms of lighting is either unavailable, not cost effective or environmentally possible
- Self-contained, maintenance free solution
- Available in amber, red, white, green or blue (uni or bi directional)

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Sustainable Solution

With increasing energy costs, traditional inset mounted pavement lighting powered by the mains electricity grid now offer a challenging, intrusive and expensive option to install, run and maintain. By contrast, use of the Clearview SolarLite F-SL Platform/Pathway studs not only saves on energy and maintenance costs, but also results in a reduction of light pollution and a much lower environmental audit score as no CO2 emissions are produced by the solar powered units.

Applications
- Platform edge delineation
- Walkways, paths, delineation and/or way marking
- Cycle paths
- Foot crossings
- Level crossings

Approvals
- UK Department for Transport type approved for highway use (SFS mk4)
- BSI tested to BSEN 13036-4:2011 for slip resistance in excess of 45
- Meets slip resistance requirements of Network Rail document NR/L3/CIV/030
- BS EN1463

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>TECHNOLOGY</td>
<td>Active solar voltaic LED</td>
</tr>
<tr>
<td>HOUSING MATERIAL</td>
<td>Polycarbonate &amp; Polyester compound (GE Plastic “Xylex”)</td>
</tr>
<tr>
<td>DIMENSIONS</td>
<td>Ø108 x Ø112 x 52mm</td>
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<tr>
<td>PROJECTION</td>
<td>4mm (0.15”) above road/platform/pavement surface</td>
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<tr>
<td>SLIP RESISTANCE</td>
<td>Meets requirements of Network Rail document NR/L3/CIV/030 - Version 3 to BSEN 13036-4:2011 in excess of 45</td>
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<tr>
<td>WEIGHT</td>
<td>450g (16oz)</td>
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<tr>
<td>REFLECTOR</td>
<td>Diamond grade</td>
</tr>
<tr>
<td>LED CONFIGURATION</td>
<td>Uni / Bi-direction</td>
</tr>
<tr>
<td>LED PER STUD</td>
<td>1 per uni-directional stud, 2 per bi-directional stud</td>
</tr>
<tr>
<td>LED SIZE</td>
<td>5mm</td>
</tr>
<tr>
<td>LED COLOURS</td>
<td>Amber to EN1463, Red to EN1463, White to EN1376 C, Green to EN1463, Blue to EN1376 A</td>
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<tr>
<td>FIXATIVE</td>
<td>Triflex R238 Resin or Robnor Resin EL628SS</td>
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<tr>
<td>APPROXIMATE MAX. DISTANCE VIEW</td>
<td>Up to 900m</td>
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<tr>
<td>LED OUTPUT FREQUENCY</td>
<td>&gt; 100Hz</td>
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<tr>
<td>ACTIVATION</td>
<td>Auto photo sensor @ approx 100 lux</td>
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<tr>
<td>BATTERY TECHNOLOGY</td>
<td>Nickel metal hydride</td>
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<tr>
<td>OUTPUT ON FULL CHARGE</td>
<td>Up to 240 working hours with no solar input</td>
</tr>
<tr>
<td>TIME ON FULL CHARGE</td>
<td>3hrs @ 100 klux (sunny day)</td>
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