Internally illuminated LED Traffic Signs

Slim, Strong, Energy Saving
Solar
Double Sided Signs
Bridge Height Signs
Illuminated & non-lit Bollards
Cycleway Signs
CMS Systems
CE Marked
UMSUG Coded
DFT Approved
Less clutter
Vandal Resistant to IK10
5 year guarantee
Conforms to BS EN 12899-:2007
Conforms to ISO9001-2008
One2See LED Traffic Signs

Our signs have been designed by a lighting company, not a sign manufacturer, to produce an energy & light efficient, high quality, reliable solution that meets the precise needs of the modern street scene.

Primary Benefits of using One2See signs

- **LONGER LIFE**
  The use of LEDs result in a life in excess of 50,000 hours

- **LESS MAINTENANCE**
  Reduced maintenance costs due to the extended lamp life, less light spill thus attracting less insects and reduced lamp realignment when compared with Type A signs

- **LOWER ENERGY**
  Significant energy saving is achieved by changing to One2See signs through the use of low wattage LEDs.

- **SLIM DESIGN**
  Conventional internally lit signs have a depth of 150mm. One2See are only 75mm.

- **REDUCED LIGHT POLLUTION**
  Type A signs spread light indiscriminately. One2See signs, being internally lit, put the light exactly where it is needed, on the sign face. ONLY the sign is lit.

- **ENVIRONMENTAL ADVANTAGES**
  No fluorescent lamp disposal, less parts to dispose of at the end of life, lower carbon footprint because of fewer maintenance visits and reduction in energy usage. Indeed around 60% of the sign is recyclable.

- **BETTER VISIBILITY**
  Most conventional internally lit signs do not have retro-reflective material applied. One2See signs do, resulting in improved light distribution and better angular vision. In the event of a power cut the retro-reflective will assist visibility.

- **PASSIVELY SAFE**
  Less weight and the elimination of Type A signs reduces the effects of damage in the event of an accident, thus increasing safety.

- **EASE OF INSTALLATION**
  Our signs are supplied with sufficient length of cable to enable simple installation without the need to open the sign. Simply connect the wires, fix the sign and walk away. Fit & Forget!

- **LOW VOLTAGE AVAILABLE**
  12 volts or other low voltage can be supplied.
Our Range

We offer a wide range of LED illuminated road signs.

If you are seeking a particular product that is not listed here, please enquire since we regularly quote for modified and bespoke requirements.

Each sign is supplied complete with chosen sign face, integral LED lamps and driver. A photocell is provided as standard and is complete with required cable & back rails to enable installation without the need to open the unit.

Standard back box is finished grey or black as specified, see catalogue numbers below.

When specifying or ordering replace - 000 in each case with the TSRGD sign face code. Alternatively we will be pleased to confirm this upon receipt of your enquiry and details of your requirement.

Also available: Low Voltage – CMS (Central Management System) – Solar – Post Mount version

If a bespoke message on the sign is required please contact our sales office.

<table>
<thead>
<tr>
<th>PRODUCT ORDERING CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Circles – Grey</strong></td>
</tr>
<tr>
<td>AC300-G-LED-000</td>
</tr>
<tr>
<td>AC450-G-LED-000</td>
</tr>
<tr>
<td>AC600-G-LED-000</td>
</tr>
<tr>
<td>AC750-G-LED-000</td>
</tr>
<tr>
<td>AC900-G-LED-000</td>
</tr>
<tr>
<td>AC1200-G-LED-000</td>
</tr>
<tr>
<td><strong>Triangles – Grey</strong></td>
</tr>
<tr>
<td>BT600-G-LED-000</td>
</tr>
<tr>
<td>BT750-G-LED-000</td>
</tr>
<tr>
<td>BT900-G-LED-000</td>
</tr>
<tr>
<td><strong>Rectangular – Grey</strong></td>
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<td>R3045-G-LED-000</td>
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Sizes of Standard Range

Standard sizes of internally lit signs in the One2See range:

- 300mm
- 450mm
- 600mm
- 750mm
- 900mm
- 1200mm
- 900mm
- 1200mm
- 300x450mm

All available in Black or Grey finish as standard. Bespoke and special sizes also available.
Back to Back – Double Sided Signs

From time to time there is the need to install signs on a single post back to back, most recently to enable compliance with the introduction on some roads of the 20mph speed limit zone. We offer two options each providing a simple solution. If two circles or two triangles are needed a slim single unit with a face on each side is the answer. Occasionally one circle and one triangle on the same post is required, in this case a special bracket is provided to be fitted with one of each sign.

Two Circles or Two Triangles – As with standard single signs this is supplied complete but with two chosen sign faces, integral LED lamps and drivers.

A photocell is provided as standard and is complete with required cable to enable installation without the need to open the unit.

Sign is finished grey or black as required, see catalogue numbers below. When specifying or ordering replace - 000 in each case with the TSRGD sign face code. Alternatively we will be pleased to confirm this upon receipt of your enquiry and details of your requirement.

PRODUCT ORDERING CODE – Part numbers are for 76mm post mounting. (89mm also available)

<table>
<thead>
<tr>
<th>Back to Back – Circles – Grey</th>
<th>SIZE</th>
<th>Back to Back – Circles - Black</th>
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<tbody>
<tr>
<td>AC450-G-LED-000-BTB-76</td>
<td>450</td>
<td>AC450-B-LED-000-BTB-76</td>
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<tr>
<td>AC600-G-LED-000-BTB-76</td>
<td>600</td>
<td>AC600-B-LED-000-BTB-76</td>
</tr>
<tr>
<td>AC750-G-LED-000-BTB-76</td>
<td>750</td>
<td>AC750-B-LED-000-BTB-76</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Back to Back – Triangles – Grey</th>
<th>SIZE</th>
<th>Back to Back – Triangles - Black</th>
</tr>
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<tbody>
<tr>
<td>BT450-G-LED-000-BTB-76</td>
<td>450</td>
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<tr>
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<td>600</td>
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<tr>
<td>BT750-G-LED-000-BTB-76</td>
<td>750</td>
<td>BT750-B-LED-000-BTB-76</td>
</tr>
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</table>

Bracket only for mounting 1 circle and 1 triangular sign back to back on a 76mm post (89mm also version available)

PRODUCT ORDERING CODE

<table>
<thead>
<tr>
<th>Grey Bracket only</th>
<th>Black Bracket only</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTB – G – LED - V1 - BKT – 76</td>
<td>BTB – B – LED - V1 - BKT – 76</td>
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</table>
Bridge Height Signs

“The frequency of bridge strikes appears to be continually on the increase, figures from 2014 suggest over 9% more incidents.”

It seems that where bridges are low, drivers of high sided vehicles miss unlit or inadequate warnings and hit the bridge. Quite apart from the obvious danger to other road users and pedestrians the cost of such a strike is often very significant. One single incident could easily cost more than the installation of well-lit warning signs. Often the result includes closing a major and busy road for long periods with the railway line above also needing to be shut until structural inspection has confirmed that the bridge is safe to use. How simple then to avoid this by ensuring that adequate, clear signage is provided.

Our Solution
It is important to ensure that the driver’s eye is attracted to the message as clearly and early as possible. By utilising internally lit LED signs the only light is directly on the sign face, exactly where it is needed, there is no glare or light spill. This results in the sign being seen at the earliest moment and any action needed by the driver can be taken in good time without a last minute panic or indeed no action being taken and hitting the bridge!

“Headroom at a Hazard” Boxes

There are some councils who go a stage further and request the provision of LED lit “Headroom at a Hazard” boxes to be provided with the sign. This really emphasizes the risk that low bridges present and ensures that the hazard is highlighted to the driver at the earliest possible moment in the clearest possible way and offers the very best chance of avoiding costly and dangerous outcomes.

Full details upon request
Solar Signs

Solar signs have become an increasingly valuable requirement for a number of reasons. These include the significant saving on installation costs, the complete absence of energy costs, the ease of providing illuminated signs to central carriageways without the need to dig up roads and the ability to provide a lit sign to a rural location, when needed, with none of the costs or disruption normally associated with providing mains services to such an installation.

The use of solar signs also adds to the safety of an installation since only low voltage is present thus in the event of an accident any danger from higher voltage electricity is eliminated.

One2See has been involved with a number of significant projects where solar was the preferred option. A significant installation being around the perimeter roads at Heathrow airport for the British Airports Authority and TFL routes.

Our solar package includes the required sign with the sign face fitted. The solar panel with the required batteries & control gear complete with wiring to enable simple and efficient installation. We can also provide the required post if this is your preferred option, details upon request. It should be noted that the solar panel used is compact and lightweight.

Signs are controlled by a 70 LUX photocell for dusk to dawn operation. Solar panel is 11watts for daylight recharging and is on a rotational bracket that can be positioned to capture optimum sunlight. It is powered by a 12v DC 10Ah battery.

Available with single or twin solar panels depending upon ambient light and topography.

Please contact our sales office for precise catalogue number details to enable correct specification & ordering.
LED Illuminated & non-lit Bollards

One2See manufactures both illuminated and non-illuminated bollards in a range of sizes. All are supplied with TSRGD 610 retro reflective sign face as standard. For other sign faces replace 610 with required TSRGD reference number.

Olympic Bollard
Our standard Olympic hoop bollard is available as a single side or double sided unit and can be provided as 300mm, 450mm or 600mm diameter signs.

The Olympic is complete with an in-ground box for fixing or as a plate mount version as special order. The standard finish is stainless steel. Black or white polyester powder coat options are available.

Non-lit Olympic Bollard
Full details upon request

Heritage Bollard
The Heritage is manufactured in heavy gauge zintec steel and finished in gloss white polyester powder coat. Fixing by means of the flange mounting bracket provided. In keeping with all One2See products Heritage has LED technology which is housed within a traditional design providing low running costs and maintenance and offering a highly visible sign to enhance road safety.

To specify or order Olympic or Heritage bollards please contact our sales office for full catalogue number details.
Whilst we have an extensive range of standard signs we recognise that there are occasions where special sizes or designs of signs are needed. Over past years we have worked with customers to provide solutions that meet their requirements by manufacturing bespoke units ranging from 3m tall hooped bollards with triple signage for cycleways to 4m by 3m signs for roadways.

If you have such a requirement please contact our sales office.
Email: sales@one2see.co.uk
Tel: 020 8641 5839

Cycleways

The significant increase in the provision of cycleways in many towns and cities across the country has, in a number of cases, resulted in the need for clear illuminated signage to maximise the safety of cyclists.

One2See has designed and provided a number of standard as well as bespoke designs for customers.

If you have such a requirement please contact our sales office.
Email: sales@one2see.co.uk
Tel: 020 8641 5839

Roundabouts & larger bespoke signs

Whilst we have an extensive range of standard signs we recognise that there are occasions where special sizes or designs of signs are needed.

Over past years we have worked with customers to provide solutions that meet their requirements by manufacturing bespoke units ranging from 3m tall hooped bollards with triple signage for cycleways to 4m by 3m signs for roadways.

If you have such a requirement please contact our sales office.
Email: sales@one2see.co.uk
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There has been a significant increase in the implementation of wireless remote control for street, roadway and area lighting.

The advantages that remote control offers can make very significant savings and provides invaluable and immediate information. The central switching on and off, rather than relying upon a simple photocell, ensures signs are all on at a predetermined time together, not an irregular switch on or off. Remote control also provides accurate feedback regarding the cost and amount of energy being used. Also, where required, could provide information regarding air quality in a particular area. In the event of sign failure the information would be immediately reported so that action could be taken to make a repair and ensure safety is maintained.

CMS also provides increasing opportunities for the gathering of information from streets. For example feedback to energy companies regarding the real time usage of energy assisting planning and distribution, again saving significant sums.

One2See signs can be supplied with the NEMA socket so that the selected CMS system can be fitted.

Past projects have utilised systems from Telensa, Mayflower, Harvard, Silver Spring, and Telematics. It is likely that future systems will also be compatible, and will be tested and added as they become available.

Please contact our sales office for further information.
SIGN SPECIFICATIONS:

Weatherproof IP65 construction
Vandal resistant to IK10
Aluminium body finished in grey or black polyester powder coat, as required
Slim design – Only 75mm deep
Industry standard rail mount or post top mount, as required
3 metres of connecting cable supplied – 0.75mm 3 core – No need to open sign to install
Operating voltage 220 – 240 mains
ELV (extra low voltage) 12v – 24v – 48v available upon request
Electronic driver 350Ma 6VA
Total power usage (600mm Circle) 4.9watts
Photocell provided – Switch on level 70 lux 1:1.5 positive
Operating temperature -10c to +25c
Optional CMS control available via built-in NEMA socket (& NEMA node by others.)
Light Output 126 Candela per m² on white part of sign face (BE EN 12899 Ls/L1/L2 Standard)
Zero light pollution, only the sign face is lit
EMC & LVD compliant
CE Marked
Conforms to BS EN12899-1:2007
Conforms to ISO9001-2008
UMSUG coded
Designed to conform to BS EN60598 (where applicable)
Solar Powered versions available
5 Year guarantee – details upon request - Fit & Forget!

For further technical information please contact us by email or telephone
Email: sales@one2seesigns.co.uk
Tel: 020 8641 5839
A British designed and manufactured range able to withstand physical attack and severe weather conditions, coupled with some of the highest IP & IK ratings and aesthetics available. Suitable for interior and exterior installations, including anti-ligature options for secure establishments.

SQ & SQ45
Square or Angle bulkhead developed with LED at the forefront of its design, combining high performance, strength and durability.
Body in zinc coated steel.
3mm LED opal polycarbonate diffuser secured by anti-tamper fixings.
IK14    IP65

FORUM & FORUM 45
Linear or Angled linear LED fitting with a contemporary design; slim, efficient & strong.
Body in zinc coated steel.
3mm LED opal polycarbonate diffuser secured by anti-tamper fixings.
IK14    IP65
**TABOR & TABOR 45**
Super-slim ‘tough brother’ of the Forum, designed for installations where severe or prolonged attack may occur.
Body in zinc coated steel.
3mm LED opal polycarbonate diffuser secured by anti-tamper fixings.

IK18   IP65

**CITADEL & CITADEL 45**
Linear or Angled LED fitting with a slim-line curved profile capable of continuous mounting (available with optional cable trunking system).
Body in extruded aluminium.
Machined aluminium end caps secured by anti-tamper fixings.
3mm opal polycarbonate control lens designed to achieve superior optical performance.

IK16   IP65

**KALIXX**
Round bulkhead developed with LED at the forefront of its design. With an impact rating of IK20 it is extra, extra strong and is conceivably the strongest vandal resistant fitting on the market.
Aluminium spun body with steel bezel.
3mm LED opal polycarbonate diffuser secured by anti-tamper fixings.

IK20   IP65

For further information please contact us by email or telephone
Email: sales@aetherlighting.com
Tel: 020 8254 0094

www.aetherlighting.com
STEELPLAN KITCHENS

Food Technology Room, Pates Grammar School

AETHER LIGHTING

Vandal and weather resistant lighting

STEELPLAN PRODUCTS

Steelplan Products Factory, Hemel Hempstead
The Steelplan Group

One2See signs is part of the Steelplan Group. A collection of companies that design, manufacture & supply high quality British products.

**ONE 2 SEE**
Designers, manufacturers & suppliers of LED illuminated traffic/regulatory road signs & hoop bollards.

**STEELPLAN KITCHENS**
Designers, manufacturers & suppliers of high quality steel & metal kitchens for use in all semi-commercial environments.

**STEELPLAN PRODUCTS**
Steelplan Products, your manufacturing partner. We are proud to work alongside the UK’s leading product manufacturers, providing our fine limit sheet metal expertise to suit their production needs. Our services include precision sheet metalwork, finishing and assembly.

**MERAVIGLIA URBANA**
Designers, manufacturers & suppliers of high quality design led kitchens for commercial interiors.

**AETHER LIGHTING**
Designers, manufacturers & suppliers of the ENDURANCE range of vandal & weather resistant LED lighting.