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# Transilluminated Traffic Sign

## SII CIRCULAR TRAFFIC SIGN

Illuminated traffic signs of the future



## Introduction

The main use of transilluminated traffic signs is for fixed, vertical road traffic signs on public and private roads.

By using new technologies, signs are improved to the highest level of road traffic signalization.

The benefits of the three new technologies used in the product are expressed in excellent visibility and recognition of the pictorial sign, high durability and long lifetime.

The light source installed in SII transilluminated traffic signs is one light-emitting diode (LED).

Flat light distribution elements provide the uniform luminance of the whole sign surface.

The sign face material is a micro-prismatic translucent retroreflective sheet of classes R3A and R3B.

The product complies with applicable European standard EN 12899-1:2007.

## Advantages

**Safety** Excellent visual performance and contrast of sign messages.

**Savings** Low energy consumption and long lifetime.

**Strength** Mechanically robust and chemically resistant construction.

## Construction

The SII transilluminated traffic sign consists of a front plate, an aluminium back plate and an electric enclosure at the back.

The retroreflective sheet material is applied on a 3mm-thick polycarbonate front plate with printed pictogram.

The tough polycarbonate ensures the high mechanical strength of the sign.

Brighter

Safer

Cost-effective

Eco-friendly

**IlumiPan®**  
Made in Light



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The visibility of the pictorial sign is improved by the retroreflective sheet: 3M DG3 4090T (ETA 07/0272).

The back plate of aluminium sheet with edge reinforcement profile ensures reliable transfer of all static and dynamic loads to the fixing and mounting structures, reinforces rigidity and is light-weight.

Signs can be fixed to any pole dimension with standard clamps.

The power cable passes through the cable gland in the polycarbonate electric enclosure and is connected to the terminal block on the mounting plate.

## Feature Highlights

The advantages of the SIII transilluminated traffic sign are long lifetime, low power consumption, robustness, excellent visibility and contrast of the pictogram.

The sign's visibility at night is even greater than during the day, because of uniformity of luminance and high contrast against the dark background.

This contributes to road safety in low-visibility conditions with higher accident risk.

Existing non-uniformly illuminated traffic signs are hardly noticeable and hard to recognize, thus delaying the driver's reaction time.

The electronic driver on the mounting plate is easily replaceable at the installation location.

## Physical properties

**Coefficient of retroreflection** .....R3A, R3B (ETA 07/0272)

**Mean luminance:**.....L2

**Uniformity of luminance**.....U3

**Weight:**.....5 kg

**Temperature range:**.....-25°C to +50°C

**IP code:**.....IP65

## Electrical properties

**Light source:**.....LED – 1 x Nichia

**Rated supply voltage:**.....220–240V, 50–60Hz

**Power:**.....5W

## Mechanical properties

**Back plate:**.....Aluminium – EN AW1050H14, EN 573-3

**Front plate:**.....Polycarbonate 3mm – Makrolon Bayer GP

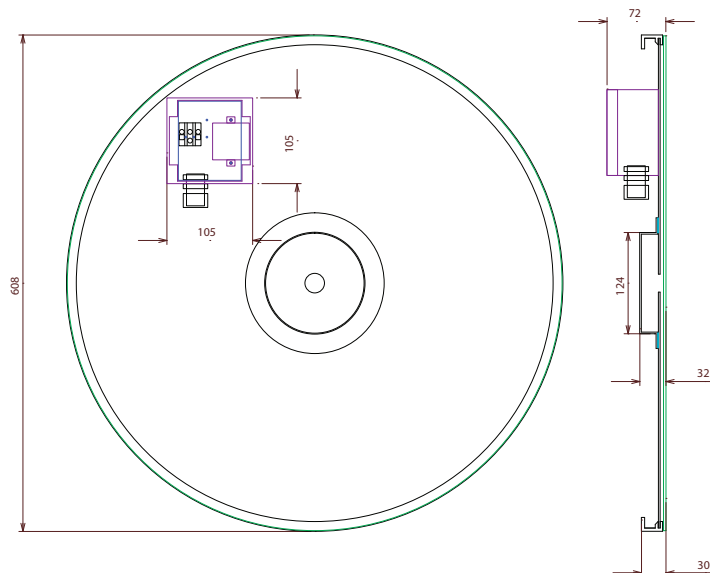
**Wind pressure:**.....WL5

**Dynamic snow pressure:**.....DSL1

**Dimensions:**

Diameter .....615mm

Thickness .....31mm



We reserve the right to make changes and improvements to the product described in this document without prior notice.

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