TS-SR-48CS Shallow-Base, Stainless Steel LED Road Stud



General Description

Our TS-SR-48CS stainless steel LED road stud features a durable, low-maintenance design with outstanding visibility during the day and at night. Its shallow 1.97" (50 mm) base minimizes the required installation depth.

The TS-SR-48CS is ideal for applications with limited pavement depth, such as bridges and tunnels. It is also suitable for crosswalks, school zones, railroad crossings, lane control, wrong-way warning, and toll booth or tollway lead-on applications.

All In-Roadway Warning Lighting System components are available from TSC. A typical installation would include a set of road studs, a control system, one or more activation devices such as a pedestrian push button station, and flashing LED crossing signs.

Features

- Shallow 1.97" (50 mm) base ideal for applications with limited pavement depth, such as bridges and tunnels
- Robust construction, suitable for harsh conditions (salt, chemicals and weather exposure)
- Snowplow resistant
- Low maintenance, 100% waterproof
- Silicone-free junction sealing technology allows better, faster and cleaner maintenance
- IP68/IK10 Compliant
- High mechanical resistance: up to 90 tons, suitable for regular traffic areas of heavy vehicles
- Outstanding visibility during the day and at night
- Up to .62 mile (1 km) visibility distance due to high intensity LEDs
- Suitable for applications in crosswalks, school zones, bridges and tunnels
- Only .37" (9.4mm) above road surface
- Connect multiple road studs in series circuit
- Installation accessory for easy leveling
- Easy replacement: base (fixed in the pavement), main body (removable)
- LEDs protected by polycarbonate window

Specifications

Modes of Operation

- Steady (other modes of operation like flashing or sequential are available with external controller)

LED Configuration

- Bi-directional / Unidirectional

Electrical Features

- Power Supply: 12V/24V DC
  - Max. Current Consumption: 160mA
  - Power Cable: Wire 1 (+) | Wire 2 (-)
  - Cable Section: 2 x 1.5mm
- Power Supply: 230V AC
  - Max. Current Consumption: 9.5W
  - Power Cable: Brown (L) | Blue (N) | Yellow/Green (PE)
  - Cable Section: up to 3 x 1.5mm
- Operation Temperature: -13°F to +185°F (-25°C to +85°C)

Optical Features

- LED Quantity: 16 LEDs
- LED Type: 5mm
- LED Colors: White, Red, Amber, Green, Blue
- LED Viewing Angle: 15°
- LED Life Span: 100,000 hours (manufacturer specification)

Mechanical Features

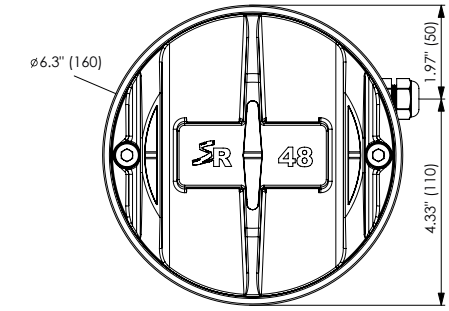
- Top Material: Hard stainless steel league with good corrosion resistance and polycarbonate window certified to UL 94 V0
- Bottom Material: Aluminum
- Weight: 6.17 lb. (2.8 kg)
- Rising from Surface: .37" (9.4mm)
- Mechanical Resistance: up to 90 tons
- Dimensions: Ø6.3" (160mm) x 6.7" (169mm) x 2.3" (59.4mm)
- Protection Index: IP68 / IK10

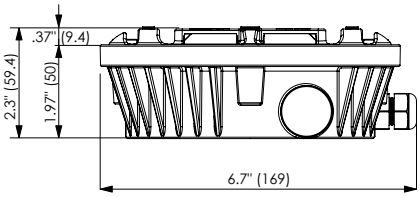
Applications

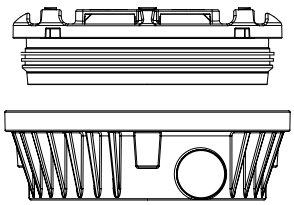
- Heavy traffic zones, snow areas, road delineation, crosswalks, among other applications

+1.888.446.9255 USA
+1.916.394.9884 Worldwide
xwalk.com
sales@xwalk.com
Traffic Safety Corp., 2708 47th Ave.
Sacramento, CA, 95822, USA

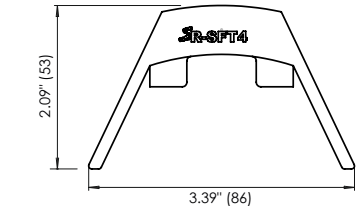
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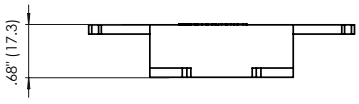


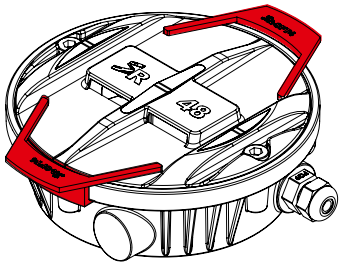




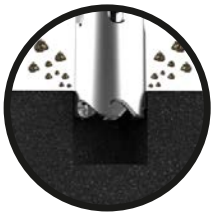
Installation Accessory - SR-SFT4







Installation Manual



After deciding the location where the stud will be installed, drill a hole having a minimum diameter of 6.7" (170mm) and minimum of 2.4" (60mm) deep.



Using a disk cutter, open a connection between the holes with .59" (15mm) width and 1.97" (50mm) depth.



Brush any debris or dust from the hole resulting from drilling.



Dry the hole with a blowtorch to remove any moisture that may compromise the adhesion and effectiveness of the glue.



Apply the installation accessory in each road stud that will be installed. The accessory will help align and keep the road stud in place during the glue drying time. This accessory will be removed at the end of the installation.



Pour ±3.3 lb. (±1.5 kg) of glue SikaFlow-648 in the hole and insert the stud. Remove any excess glue.



The glue drying time may change depending on weather conditions. Consult the glue data sheet for more information. After the glue has dried, the top part of the installation accessory should be broken and removed.

Changing or not completing the described installation process can result in suspension of warranty. Personal protective equipment must be worn during installation.

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