

Traffic Safety Corporation 2708 47th Ave. Sacramento, CA 95822-3806 Toll Free: 888.446.9255 Tel: 916.394.9884 Email: sales@xwalk.com Web: www.xwalk.com

TS-SR-48 Bi-Directional, Stainless Steel LED Road Stud

### **General Description**

Our TS-SR-48 stainless steel road stud features a durable, low maintenance design with outstanding visibility during the day and at night.

The TS-SR-48 is typically used in crosswalk applications, but it also can be used to mark school zones and rail-road crossings, lane control for bridges and tunnels, wrong way warning, and toll booth or toll way 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

- Robust construction, suitable for harsh conditions.
- Snowplow resistant.
- Outstanding visibility during the day and at night.
- Suitable for applications in crosswalks, school zones, bridges and tunnels.
- Only .33" (8.5mm) above road surface.
- Connect multiple road studs in series circuit.
- Low maintenance, 100% waterproof.
- Easy replacement: base (fixed in the pavement), main body (removable).
- LEDs protected by polycarbonate window.
- Up to .62 mile (1 km) visibility distance due to high intensity LEDs.
- Optional: use different LED colors in each window.

### Specifications

### Modes of Operation:

• Always On (other modes of operation like flashing or sequential are available with external controller)

### **LED Configuration:**

Bidirectional









### Electrical:

Power Supply	12V DC or 24V DC	42V AC or 18V~ 72V DC	120V AC or 230V AC	
Current Consumption		98 mA1	60 mA1	
Power Cable	Brown Wire (+) Blue Wire (-)	Brown Wire (Line) Blue Wire (Neutral) Yellow/Green (Earth)	Brown Wire (Line) Blue Wire (Neutral) Yellow/Green (Earth)	
Working Temperature				
1 Maximum power consumption.				

#### **Optical:**

- LED Number: 16 LEDs
- LED Type: 5mm
- LED Colors: White, Red, Yellow, Green, Blue
- Viewing Angle: 15°

### Mechanical:

- Main Body: Stainless Steel League
- Base: Aluminium
- Mechanical Resistance: 90 tons
- Weight: 5.95 lb. (2.7 kg)
- Protection Index: IP68, IK10
  Dimensions: 6.32" (160.5mm) diameter x 3.96" (100.5mm) height

# Other Versions TS-SR-48P:

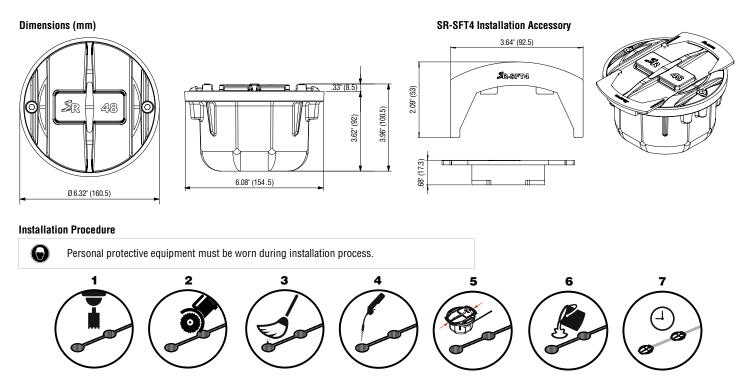
- 4 high power LEDs (1W) for maximum brightness (day and night)
- Specially developed heat sink to increase LED lifetime.
- Viewing Angle: 16°
- Power Supply: 24V DC (200 mA max)

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- 1 After deciding the location where the stud will be installed, drill a hole having a minimum diameter of 6.5" (165mm) and 3.94" (100mm) deep.
- 2 Using a disk cutter, open a connection between the holes with .59" (15mm) width and 2.36" (60mm) depth.
- 3 Brush any debris or dust from the hole resulting from drilling.
- 4 Dry the hole with a blowtorch to remove any moisture that may compromise the adhesion and effectiveness of the grout.
- 5 Add a SR-SFT4 installation accessory to each stud. The accessory will help to align and keep the road stud in place during the grout drying time. This accessory will be removed at the end of the installation.
- 6 Pour ±5.5 lb. (±2.5 kg) of ULTRAFLOW 4000/8 grout in the hole and insert the stud checking that the LEDs are facing the correct direction. Remove any excess grout.
- 7 The grout drying time may change depending on weather conditions. Consult the grout data sheet for more information. After the grout has dried, the top part of the SR-SFT4 accessory should be broken and removed.

Changing or not completing the described installation process can result in suspension of warranty.

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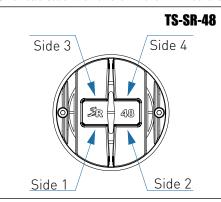


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# TS-SR-48 Bi-Directional, Stainless Steel LED Road Stud

TS-SR-48	Bidirectional 8 + 8 LEDS           Model           TS-SR-48-WW-1G         I           TS-SR-48-RR-1G         I           TS-SR-48-RP-1G         I           TS-SR-48-BB-1G         I           TS-SR-48-GG-1G         I	<i>Description</i> Hardwired Road Stud / 3mt Cable Inc. / 16 LED / <b>Snowplow Resist.</b> / 1 Cable Gland " " "	<b>Color</b> White / White Red / Red Yellow / Yellow Blue / Blue Green / Green	
OBS.:	Standard mode: Always O	: 0.75mm <sup>2</sup> wire section <b>Length should be requested upon order!</b> N. For flashing or sequential mode, a microcontroller is required. 1G	2G	
Cable Gland: Color (TS-SR-45(A)/48) e.g.: Color combinations:	TS-SR-XX(X)-X(X)-2G 2 Cable Glands TS-SR-XX(X)-WR-XX Side 1 - White / Side 2 - Red WR, WY, WB, WG, RY, RB, RG, YB, YG, BG			
TS-SR-48P	Bidirectional 4 + 4 POWE Models TS-SR-48P-WW-1G TS-SR-48P-RR-1G TS-SR-48P-YY-1G TS-SR-48P-BB-1G TS-SR-48P-GG-1G	R LEDS Description Hardwired Road Stud / 3mt Cable Inc. / 4 LED / Snowplow Resist. / 1 Cable Gland " " " " " "	Color White / White Red / Red Yellow / Yellow Blue / Blue Green / Green	
OBS.:	Cable standard (included) Different cable layouts and Standard mode: Always O	: 0.75mm <sup>2</sup> wire section <b>Length should be requested upon order!</b> N. For flashing or sequential mode, a microcontroller is required. 1G	2G	
Cable Gland: Color (TS-SR-45(A)/48) e.g.: Color combinations:	TS-SR-XX(X)P-X(X)-2G TS-SR-XX(X)P-WR-XX			

LED Configuration



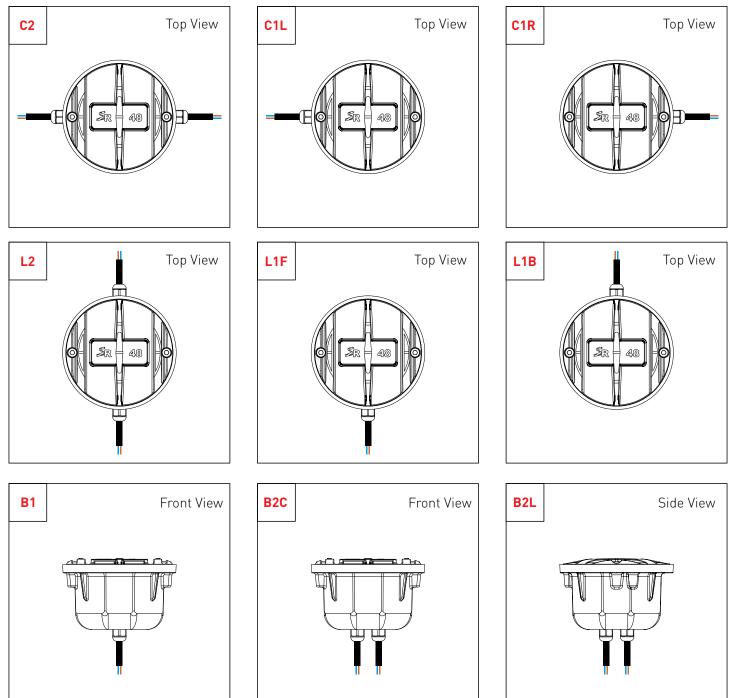
One road stud with two or more LED colors

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# TS-SR-48 Cable Layout

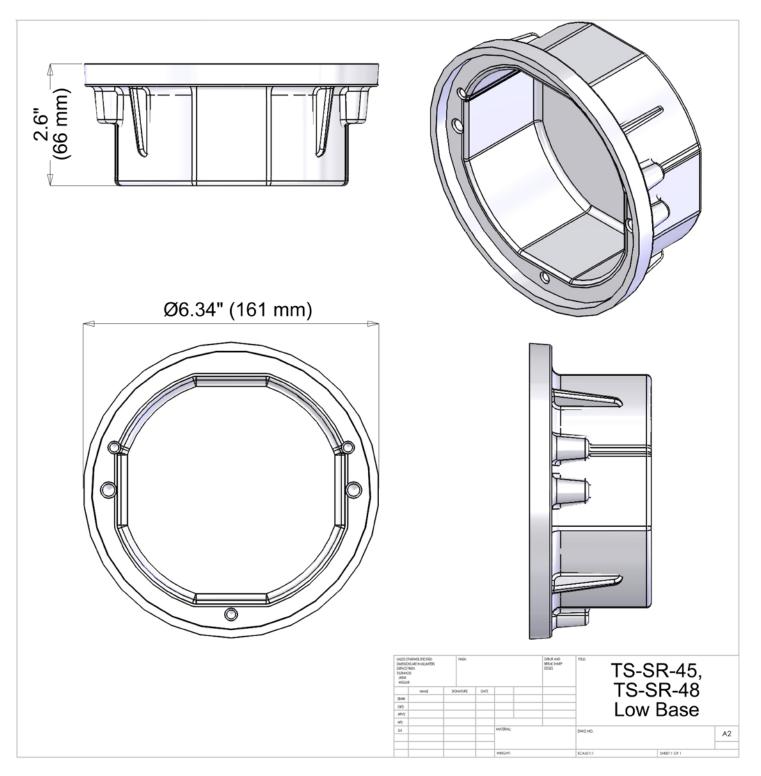




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