

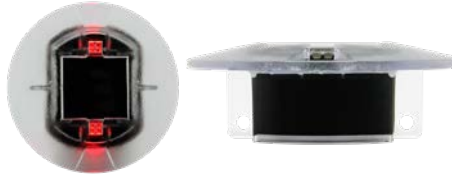


Traffic Safety Corporation
 2708 47th Ave.
 Sacramento, CA 95822-3806
 Toll Free: 888.446.9255
 Tel: 916.394.9884
 Fax: 916.394.2809
 Email: sales@xwalk.com
 Web: www.xwalk.com

TS-SR-i15 Intelligent Solar LED Road Stud

Features

- Use of microcontroller technology.
- Appropriate for regular traffic zones and areas of poor visibility.
- Ideal for road delineation, bends/curves, crosswalks among others applications.
- Only .5" (12.7mm) above road surface.
- Low maintenance, 100% waterproof.
- SLEEP mode to prevent discharge during storage / transport.
- Constant brightness during all functioning period.
- Protection against deep discharge of the batteries / capacitors.
- High performance photovoltaic solar module.
- Energy storage in super capacitors or batteries.
- Internal prismatic system.
- No oxidation problems.
- Up to .62 mile (1 km) visibility distance due to high intensity LEDs.
- Many LED color options available for a wide variety of applications.



Specifications

Modes of Operation:

- Always On or Flashing

LED Configuration:

- Unidirectional or bidirectional

Electrical:

Power Supply	Always On		Flashing	
	Battery	Capacitor	Battery	Capacitor
Autonomy After Full Charge (hours)	1000	35	2500	70
SLEEP Mode Autonomy	12 Months ¹			
Working Temperature	-13°F to +185°F (-25°C to +85°C)			

¹ Battery version only. After 12 months it is necessary to recharge the road stud a minimum of 2 sunny days.

Optical:

- LED Quantity:
 1 or 2 LEDs (Unidirectional)
 2 or 4 LEDs (Bidirectional)
- LED Type: 5mm
- LED Colors: White, Red, Yellow, Green, Blue
- Viewing Angle: 15°

Mechanical:

- Material: Polycarbonate
- Mechanical Resistance: 60 tons
- Weight: 1.1 lb. (.5 kg)
- Protection Index: IP68, IK10
- Dimensions: 5.69" (144.6mm) diameter x 1.97" (50mm) height

Other Versions

TS-SR-i15-ICE Intelligent Ice Detector Solar Road Stud:

- Detection of probability of ice formation in critical places.
- Only operates when ice is present.
- Trigger detection given by internal temperature sensor.
- Adjustable trigger detection point before production.

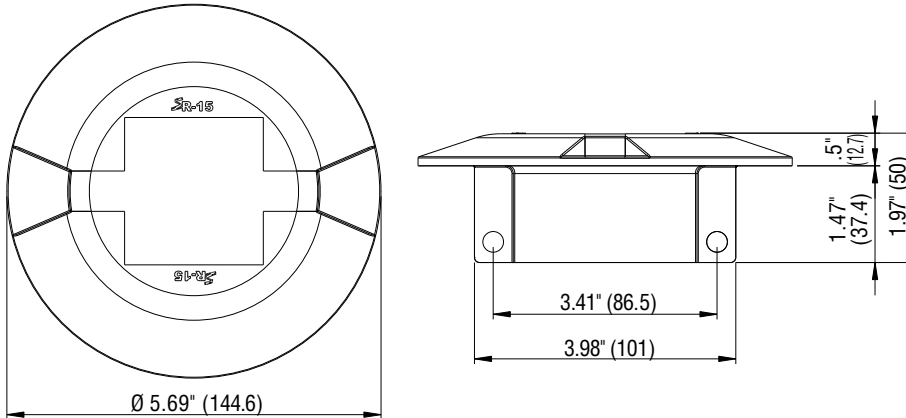
Visit our web site: www.xwalk.com



Traffic Safety Corporation
2708 47th Ave.
Sacramento, CA 95822-3806
Toll Free: 888.446.9255
Tel: 916.394.9884
Fax: 916.394.2809
Email: sales@xwalk.com
Web: www.xwalk.com

TS-SR-i15 Intelligent Solar LED Road Stud

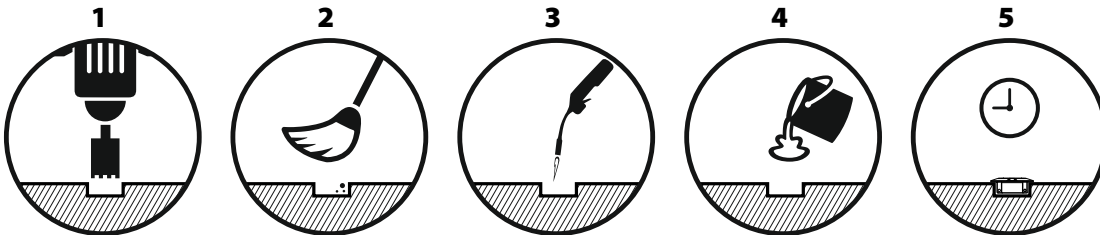
Dimensions (mm)



Installation Procedure



Personal protective equipment must be worn during installation process.



- 1 After deciding the location where the stud will be installed, drill a hole having a minimum diameter of 4.33" (110mm) and 1.77" (45mm) deep.
- 2 Brush any debris or dust from the hole resulting from drilling.
- 3 Dry the hole with a blowtorch to remove any moisture that may compromise the adhesion and effectiveness of the grout.
- 4 Pour ± 4.4 lb. (± 2 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.
- 5 The grout drying time may change depending on weather conditions. Consult the grout data sheet for more information.

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

Visit our web site: www.xwalk.com



Traffic Safety Corporation
 2708 47th Ave.
 Sacramento, CA 95822-3806
 Toll Free: 888.446.9255
 Tel: 916.394.9884
 Fax: 916.394.2809
 Email: sales@xwalk.com
 Web: www.xwalk.com

TS-SR-i15 Intelligent Solar LED Road Stud

Unidirectional 1 LED Models

TS-SR-i15-U1W-F-C
 TS-SR-i15-U1R-F-C
 TS-SR-i15-U1Y-F-C
 TS-SR-i15-U1B-F-C
 TS-SR-i15-U1G-F-C

<i>Description</i>	<i>Color</i>
Solar i-Stud (No Maintenance), 1 LED / Flashing / Capacitor	White
"	Red
"	Yellow
"	Blue
"	Green



Unidirectional 2 LED Models

TS-SR-i15-U2W-F-C
 TS-SR-i15-U2R-F-C
 TS-SR-i15-U2Y-F-C
 TS-SR-i15-U2B-F-C
 TS-SR-i15-U2G-F-C

<i>Description</i>	<i>Color</i>
Solar i-Stud (No Maintenance), 2 LED / Flashing / Capacitor	White
"	Red
"	Yellow
"	Blue
"	Green



Bidirectional 1+1 LED Models

TS-SR-i15-B2WW-F-C
 TS-SR-i15-B2RR-F-C
 TS-SR-i15-B2YY-F-C
 TS-SR-i15-B2BB-F-C
 TS-SR-i15-B2GG-F-C

<i>Description</i>	<i>Color</i>
Solar i-Stud (No Maintenance), 2 LED / Flashing / Capacitor	White / White
"	Red / Red
"	Yellow / Yellow
"	Blue / Blue
"	Green / Green

Bidirectional 2+2 LED Models

TS-SR-i15-B4WW-F-C
 TS-SR-i15-B4RR-F-C
 TS-SR-i15-B4YY-F-C
 TS-SR-i15-B4BB-F-C
 TS-SR-i15-B4GG-F-C

<i>Description</i>	<i>Color</i>
Solar i-Stud (No Maintenance), 4 LED / Flashing / Capacitor	White / White
"	Red / Red
"	Yellow / Yellow
"	Blue / Blue
"	Green / Green

Operating mode option: TS-SR-i15-XXXX-A-C Always ON (With Capacitor)
 TS-SR-i15-XXXX-F-B Flashing (With Battery)
 TS-SR-i15-XXXX-A-B Always ON (With Battery)

Ice detector mode: TS-SR-i15-XXXX-X-X/ICE Ice detector only

Ref. Example (Color): TS-SR-i15-XXWB-X-X Side 1 - White / Side 2 - Blue

Color combinations: WR, WY, WB, WG, RY, RB, RG, YB, YG, BG

Visit our web site: www.xwalk.com



Traffic Safety Corporation
 2708 47th Ave.
 Sacramento, CA 95822-3806
 Toll Free: 888.446.9255
 Tel: 916.394.9884
 Fax: 916.394.2809
 Email: sales@xwalk.com
 Web: www.xwalk.com

TS-SR-i15 Intelligent Solar LED Road Stud

Unidirectional 1 LED Models

TS-SR-i15E-U1W-F-C
 TS-SR-i15E-U1R-F-C
 TS-SR-i15E-U1Y-F-C
 TS-SR-i15E-U1B-F-C
 TS-SR-i15E-U1G-F-C

<i>Description</i>	<i>Color</i>
Solar i-Stud Evolution (No Maintenance), 1 LED / Flashing / Capacitor	White
"	Red
"	Yellow
"	Blue
"	Green



Unidirectional 2 LEDs Models

TS-SR-i15E-U2W-F-C
 TS-SR-i15E-U2R-F-C
 TS-SR-i15E-U2Y-F-C
 TS-SR-i15E-U2B-F-C
 TS-SR-i15E-U2G-F-C

<i>Description</i>	<i>Color</i>
Solar i-Stud Evolution (No Maintenance), 2 LED / Flashing / Capacitor	White
"	Red
"	Yellow
"	Blue
"	Green

Bidirectional 1+1 LEDs Models

TS-SR-i15E-B2WW-F-C
 TS-SR-i15E-B2RR-F-C
 TS-SR-i15E-B2YY-F-C
 TS-SR-i15E-B2BB-F-C
 TS-SR-i15E-B2GG-F-C

<i>Description</i>	<i>Color</i>
Solar i-Stud Evolution (No Maintenance), 2 LED / Flashing / Capacitor	White / White
"	Red / Red
"	Yellow / Yellow
"	Blue / Blue
"	Green / Green



Bidirectional 2+2 LEDs Models

TS-SR-i15E-B4WW-F-C
 TS-SR-i15E-B4RR-F-C
 TS-SR-i15E-B4YY-F-C
 TS-SR-i15E-B4BB-F-C
 TS-SR-i15E-B4GG-F-C

<i>Description</i>	<i>Color</i>
Solar i-Stud Evolution (No Maintenance), 4 LED / Flashing / Capacitor	White / White
"	Red / Red
"	Yellow / Yellow
"	Blue / Blue
"	Green / Green

Operating mode option: TS-SR-i15E-XXXX-A-C Always ON (With Capacitor)
 TS-SR-i15E-XXXX-F-B Flashing (With Battery)
 TS-SR-i15E-XXXX-A-B Always ON (With Battery)

Programming: TS-SR-iTool Programming Tool

Ref. Example (Color): TS-SR-i15-XXWB-X-X Side 1 - White / Side 2 - Blue

Color combinations: WR, WY, WB, WG, RY, RB, RG, YB, YG, BG

Visit our web site: www.xwalk.com