

SPI1 road stud is ideal for countries with low sun exposure due to its high performance photovoltaic solar module. It has robust construction, making it suitable for harsh conditions and now plow resistant. This road stud has low power RF with 868MHz network communication. The SPI1 evolution technology applied to SPI1 increase the performance of solar power studs with energy storage by battery or capacitor. The main advantage of i-stud is the use of microcontroller technology inside each stud, which allows several beneficial features and control options even after installation.



Technical Specifications

Electrical Features	
Power Supply	Mono-Crystalline
Working Temperature	-13F - 185F
Optical Features	
LED Quantity	2 LEDs(Unidirectional) 4 Led's (Bidirectional)
LED Type	.19in
LED colors	White, Warm White, Red, Amber, Green, Blue
Viewing Angle	15°
Mechanical Features	
Material	Stainless Steel, Aluminum and Polycarbonate
Protection Index	IP68, IK10
Dimensions	Ø190 x 2.14in

SPI1 Evolution Features

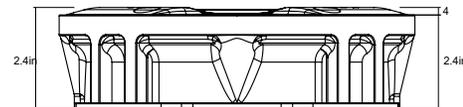
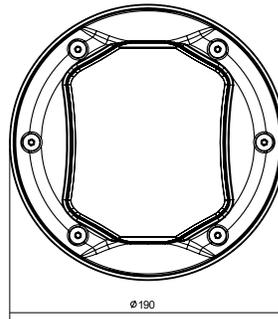
- **Wake Up/Sleep Function**
Allows the stud to stay in "sleep" mode before the application starts
- **Define the working period**
Set up the number of hour that the product should work=Operation mode Flash/always on
- **Operation Mode Flash/Always ON**
Switch from "flash to always on" and vice versa
- **Flash Rate**
Adaptation of the flash rate after installation.
- **Night Level Detection**
Adjustment of the lighting level detection
- **Operation Mode Uni or Bi-directional**
Modify the light direction to Uni or Bi-directional.
- **Low temperature**
Detects the possibility of ice forming on roads and change the LEDs color to warn drivers about the dangerous weather conditions.
- **Log File**
If a problem with the stud is detected the unit is able to make an internal log to discover what are the causes of the problem.

Key Features

- Ideal for countries with low sun exposure
- Snow plow resistant
- Low power RF with 868 MHz network communication Robust construction, suitable for harsh conditions
- SLEEP mode to prevent discharge during storage / transport
- Constant brightness during all functioning period
- Protection against deep discharge of the batteries
- High performance photovoltaic solar module
- Energy storage in super capacitors or batteries
- Internal prismatic system
- Up to 3000ft visibility distance due to high intensity led's
- Many led's color options for all kind of applications
- Easy maintenance

Uses and Applications Guide

Lane delimitation	●
Shoulder marking	●
Lane dividers	—
Safety guide rails	—
Curves and turns	●
Crosswalks	●
Speed humps	●
Traffic circles / islands	○
General traffic calming	●
Security barricades	—
Marking of underground cables	●
Fire hydrant marking	—



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