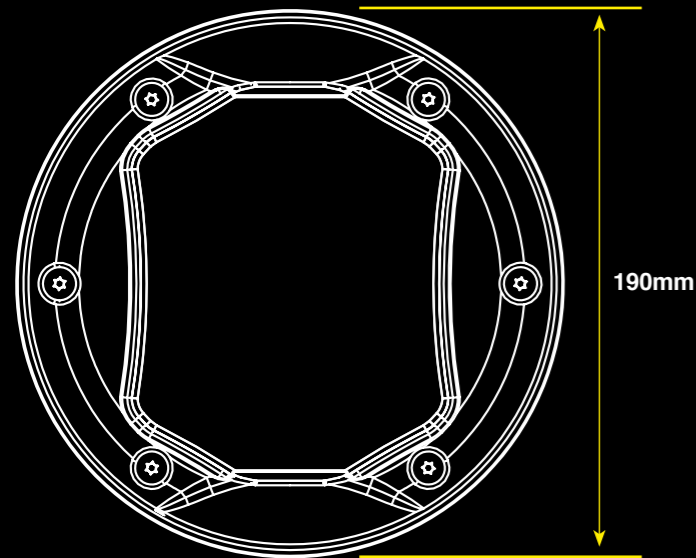
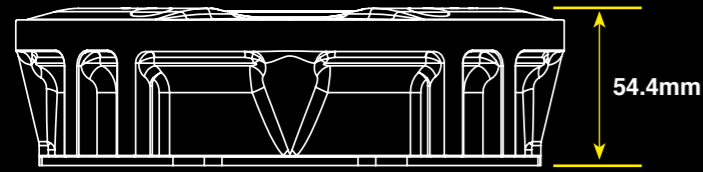


Dimensions



Rennicks has a range of studs to suit all applications.

Contact us to discuss your requirements.



01928 579 966
sales@rennicksuk.com

Rennicks (UK) Ltd
Stuart Road | Manor Park | Runcorn | Cheshire | WA7 1TS

Optical features:

LED Quantity
2 LEDs (Unidirectional)
4 LEDs (Bidirectional)

LED Type
5mm

LED Colours
White, Warm White, Red, Amber, Green, Blue

Viewing Angle
15°

Mechanical features:

Material
Stainless Steel, Aluminium and Polycarbonate

Protection Index
IP68, IK10

Dimensions
190mm x 54.5mm

Electrical features:

Power Supply
Battery

Working Temperature
-25 °C to +85°C

Rennicks Wireless Solar Road Studs



Call 01928 579 966
www.rennicksuk.com



www.rennicksuk.com

Wireless solar LED solution for delineation, guidance and warning

The SR-40 road stud has been developed for use in regions with low sun exposure. It has an extremely robust construction, making it suitable for harsh environmental conditions. In addition, the i-stud evolution technology applied to the SR-40 (which utilises a high performance photovoltaic solar module), delivers increased energy storage capacity.

This active solar stud can be communicated with and controlled via low power radio frequency. The key advance in this i-stud is the use of “microcontroller technology” inside each stud; this allows updates to control options and changes to LED sequencing post installation - not available in any other solar stud.

SR-40



Key features:

- Ideal for regions with low sun exposure
- Robust enough for snow plough blades
- Suitable for harsh conditions
- Low Power RF with 868 MHz network communication
- Sleep mode to prevent battery discharge during storage / transport
- Protection against full power discharge of the batteries
- Increased energy storage capacity
- High performance photovoltaic solar module
- Internal prismatic system
- Up to 1km visibility due to high intensity LEDs
- Constant brightness during activation period
- Range of LED colour options suitable for all applications
- Maintenance mode to adjust studs, read logs and perform tests
- Minimal maintenance



I-STUD Evolution features:

Due to the RF communication, it is possible to change multiple settings post installation:

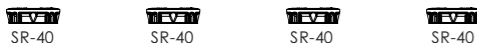
- **Wake Up/Sleep Function**
Allows the stud to stay in “sleep” mode before the application, extending the autonomy of the battery.
- **Programmable Operating Hours**
Programme the number of hours that the SR-40 should work after night detection when there is no requirement to operate all night. The road studs will operate during this period or until daylight is detected.
- **Programmable Operation Mode**
Select the studs operation mode between Flashing, Always On or Sequential, and the light direction of Uni or Bi directional.
- **Flash Rate**
Adjust the flash rate after installation.
- **Night Level Detection**
Adjustment of the level of light detection required for activation of the LEDs.
- **Independent LED Control**
Select for each side how many LEDs are enabled (one or both).
- **Low Temperature Detection**
Detects low temperature on roads and changes the LED’s behaviour to warn drivers about the dangerous weather conditions.
- **Maintenance Log**
If a problem with the stud is detected, the unit is able to make an internal log to determine the cause of the problem.
- **Maintenance Mode**
Ability to activate the maintenance mode to:
 - Adjust operation settings post installation;
 - Adjust the road studs light detection level at installation site;
 - Obtain the road stud internal log;
 - Enable or disable one or multiple studs at once.

System architectures

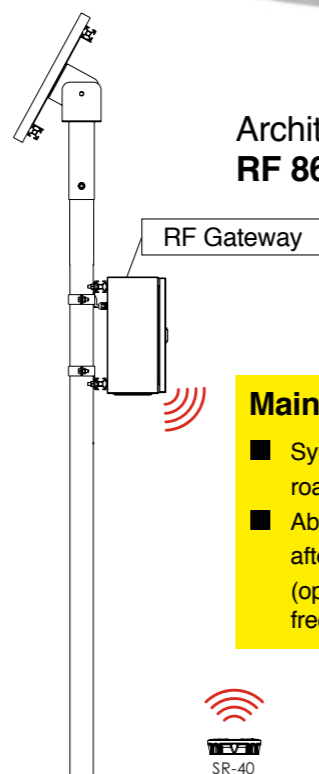
STAND ALONE Architecture

Main Features:

- No synchronisation between the road studs
- Factory-set control settings (operating mode, working period, frequency, etc.)



Architecture with RF 868MHz communication



Main Features:

- Synchronisation between the road studs
- Ability to change control settings after installation. (operation mode, working period, frequency, etc.)

