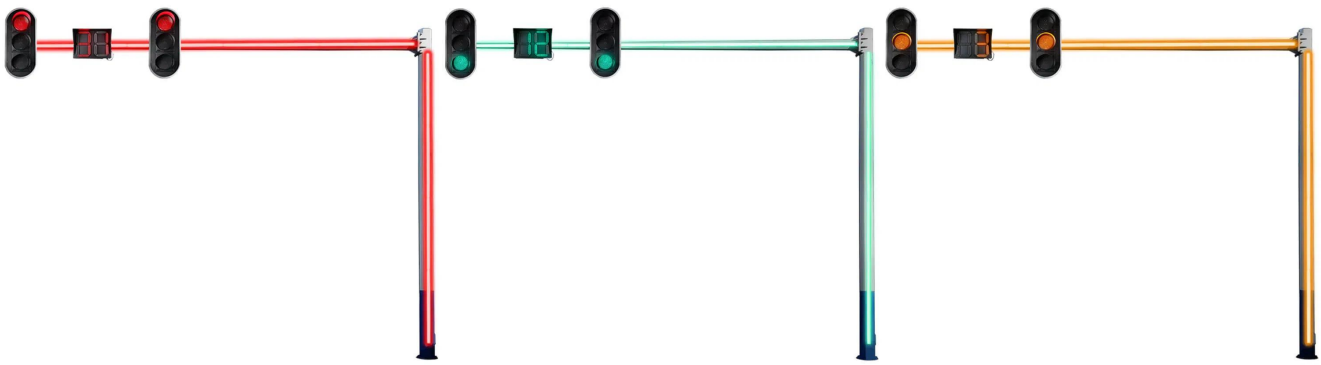
Traffic Signal Pole Light Bar- Red, Yellow and Green

SXK-GD1000-RG-1

A red green and yellow LED light bar for traffic signal poles and horizontal arms. The bar follows the traffic signal status, giving drivers an additional visual indication when vehicles ahead obstruct the signal head.



Red and green illumination



LED light bar mounted on traffic signal poles that displays red, yellow and green in sync with the traffic lights

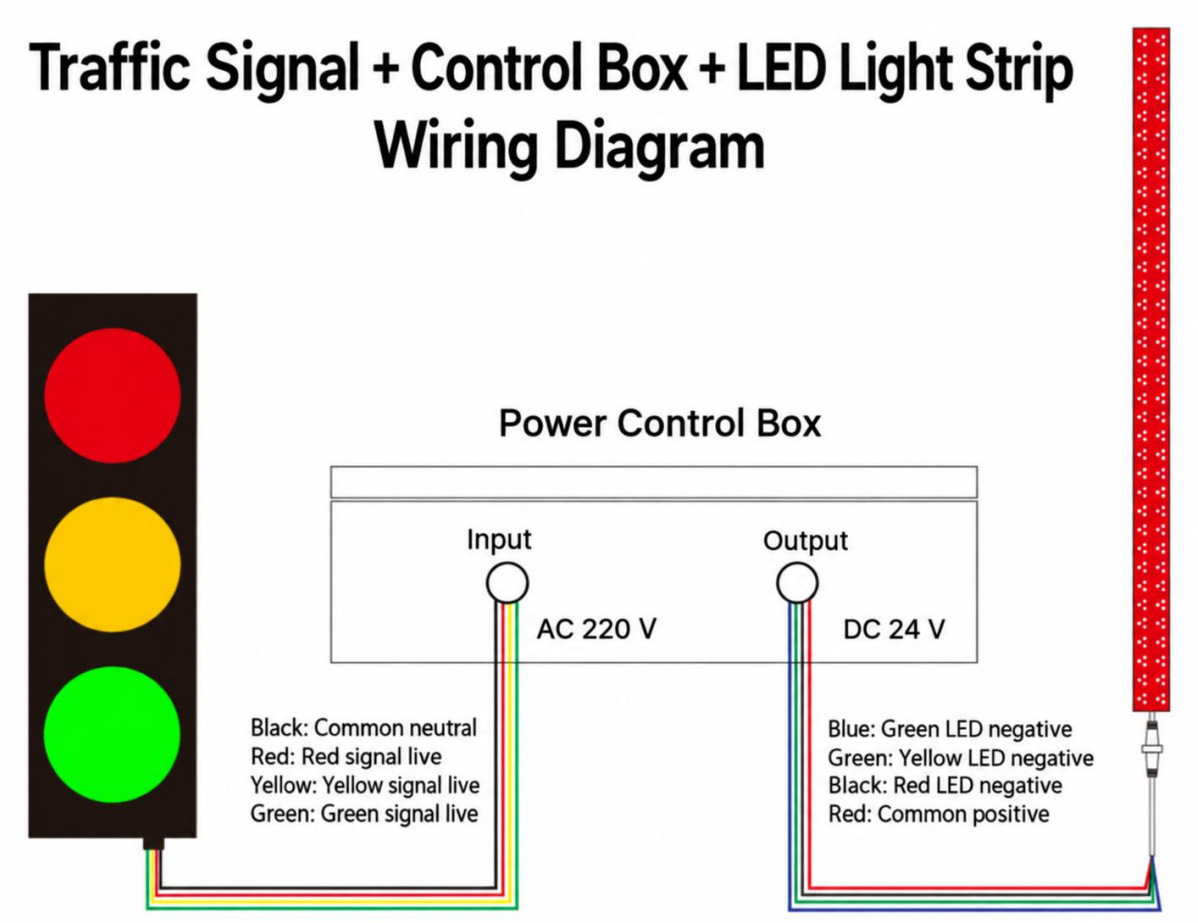
Key Features

- Designed specifically for vehicle drivers — uniform, soft and glare-free illumination using Taiwan Epistar LED chips for excellent visual performance.
- Aluminum housing with a 6° beveled face: the light is directed slightly downward when installed on the horizontal mast arm, and slightly leftward when installed on the vertical pole, delivering a clear viewing angle.
- Fully waterproof: aluminum housing with integrated LED molding; the LED section is potted with a high-adhesion polymer compound that bonds firmly with the metal housing for high water resistance.
- Power supply fully potted and waterproofed with a special constant-current drive; fast response of less than 100 ms, synchronized with the traffic signal with no delay.
- Refined appearance and novel design.
- High safety: working voltage DC 24 V; working power 9.6 W.

Technical specifications

Parameter	Specification
Supply voltage	24 V DC
Rated power	R/G/Y each for 9.6 W
Dimensions	1000 × 60 × 40mm
Housing	Aluminium with polymer-potted LED assembly
LED source	Epistar LED chips from Taiwan
LED quantity	120 red LEDs + 120 green LEDs+ 120 yellow LEDs
Wavelength	Red: 620–625 nm | Green: 520–525 nm | Yellow: 590-595
Luminous intensity	Red: 5,000–6,000 mcd | Green: 8,667–10,400 mcd | Yellow: 5000-6000 mcd
Beam angle	30°
Housing angle	6° angled profile
Response time	< 100 ms
Visibility range	1–1000 m
Operating temperature	−40 to +75 °C
Ingress protection	IP65
Life cycle	100000h
Mounting orientation	Vertical or horizontal; two band clamps per strip

Constant-current drive and potted power supplies support synchronized operation with the traffic signal. The angled profile directs light downward on a horizontal arm or toward the left when mounted vertically.



Installation and Operation

SXK-GD1000-RG-1 | System integration and service

Power and control

The optional pole-mounted power control box converts the traffic signal supply from 85–265 V AC to 24 V DC. Connect it to the signal controller or signal lamp supply so the strip follows the corresponding signal phase. One control box can drive seven strips; confirm the total load and connected strip quantity with the supplier.

Connection	Wire colour and function
Control box AC input	Black: common neutral Red: red phase live	Yellow: yellow phase live Green: green phase live
Control box DC output	Red: common positive Black: red channel negative	Blue: green channel negative Green: yellow channel negative
Light strip supply	24 V DC through the mating connectors

The controller wiring includes a yellow channel. The SXK-GD1000-RG-1 specifications on page 1 cover red and green illumination.

Mounting and connection

Secure each strip to the existing pole or horizontal arm using two band clamps threaded through the rear aluminium mounting profile. Mount the optional control box with band clamps in the same way.

Connect the strip cables to the control box and fully tighten all mating connectors, including connections between strips, to help prevent rainwater ingress.

Leave the lowest 1–1.5 m of the pole without strips, as recommended for driver visibility and efficient use of the installation.



Band clamp mounting and installation example

Disconnect the AC supply before wiring, and check all connections before energizing. Installation and internal repairs must be performed by qualified personnel. If a control box is not used, a 24 V DC power supply may be installed inside the signal lamp housing.

Testing and maintenance

Factory burn-in and performance testing lasts at least 24 hours and covers stable operation, heat dissipation, water resistance, power-supply voltage withstand, control circuitry and LED operation.

Clean the LEDs and control box periodically. Check for loose or damaged components, damaged cables and correct synchronization. Protect wiring from rodents and insects. Avoid impact, crushing and contact with strong acids or alkalis.

Symptom	Checks
Insufficient brightness	Connector tightness and supply voltage
Not synchronized	Same signal controller and correct phase connection
No illumination	Wiring, power switch and connector tightness

Field Applications





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Specifications are subject to change without notice. Please confirm final configuration and certifications with our sales team before ordering.