



Model Numbers:
NAV-NL-SBS-G (green LED)
NAV-NL-SBS-R (red LED)
NAV-NL-SBS-W (white LED)



NAVIGATIONAL LIGHTING SYSTEMS



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Marine navigational lighting is necessary for waterway traffic safety. Unfortunately, beacons can fail and leave bridges and other hazards unmarked. Water passage then proves to be extremely dangerous and very costly for managing municipalities if beacons remain extinguished.

For this reason, K&K Systems, Inc. provides the latest in marine navigational lighting. Whether you choose from our Backup System, our Retrofit System, or our Complete System, you'll be assured that waterway navigational hazards under your care will always be lit.

The K&K Retrofit and Complete Navigational Lighting Systems provide a primary navigational beacon system, as well as, the Backup System. If the primary beacon fails, the K&K Backup System activates the LED backup beacon. Simultaneously, using K&K's CrossTalk Controller and built-in monitoring service, a text message and/or email is sent to a single technician or multiple preassigned contacts alerting them the primary beacon failed. The LED beacon will continue to work until the primary system can be restored or for a maximum of 10 days. When the beacon is replaced the backup LED light will turn off and a second alert is sent via text or email to confirm that the primary beacon is in working condition. The K&K Backup System is a stand alone system, that can be utilized with existing beacon systems.

K&K Systems only use the latest in solar-powered technology so that you are assured that your standard systems will always be in service. Additionally, we offer a 10-year monitoring service with every unit to assure that you're never out of contact with your navigational systems.

NAVIGATIONAL BACKUP SOLAR SYSTEM

The K&K Navigational Backup System is a solar-powered navigational beacon system that compliments existing AC or DC powered beacon systems. The Backup System is designed to activate if the primary beacon system fails due to individual beacon outage or infrastructure power failure. When a failure is detected, the Backup System using the CrossTalk Controller will activate the LED backup beacon and send a notification via email and/or text to the pre-designated responsible technician. The Backup System will continue to work until the primary navigation system is repaired or power is restored or for a maximum of 10 days. The K&K Backup System provides peace of mind that you're navigational system will always be operational.

The K&K Solar Navigational Backup System includes:

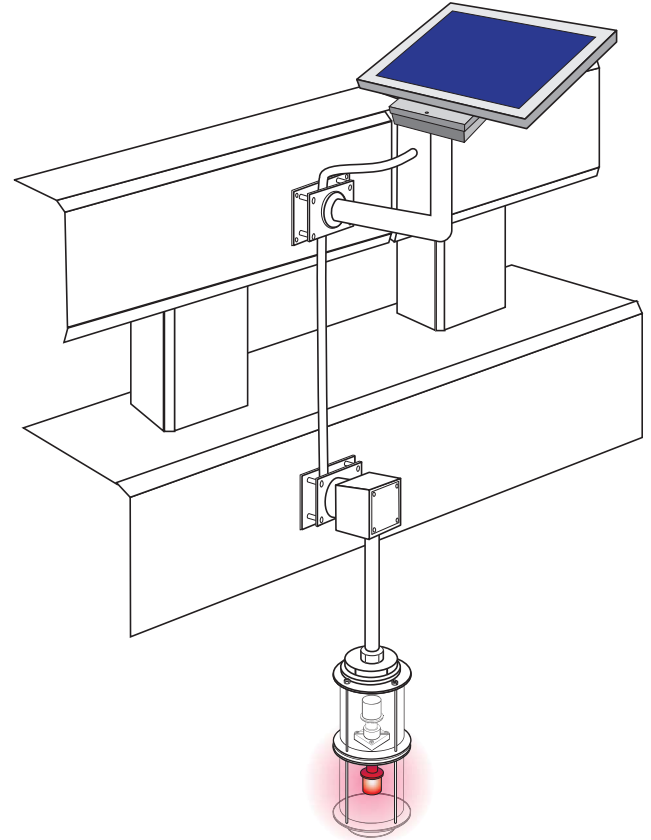
- 10 Watt Solar Panel
- Aluminum Control Box (*Stainless Steel optional*)
- AGM Battery
- K&K CrossTalk Communication System
- 4-Tier LED Bulb available in red, green, or white

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* Components in color are standard for the Backup System.

SYSTEM COMPONENTS



Solar Panel K&K solar panels utilize the most up to date solar technology and electronics to maintain power levels through rain, sleet, heavy snow or strong winds. Built-in blocking diode prevents the reverse flow of electricity. Equipped with a heavy-duty aluminum frame for weather-resistant performance. The **Control Box** is constructed of aluminum and designed to securely hold the solar panel and protect its contents from the elements.



CrossTalk K&K Systems' CrossTalk device is a compact, all-in-one solar controller, flasher, auto-dimmer and scheduler that is programmed using cloud-based software via monitoring service. The CrossTalk is located inside the control box beneath the solar panel. The CrossTalk can be accessed using a computer, smart phone or tablet from a central office or on the go to control any number of beacons in many locations through the web interface. For more information see the back of this brochure.