

RRFB RECTANGULAR RAPID FLASH BEACON OPERATING MANUAL



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THANK YOU FOR YOUR BUSINESS!

To Our Valued Customer,

K&K Systems, Inc. is excited that you have purchased our product.

Our company has been serving the traffic industry since 1997. Since that time we have risen to become a leader in the traffic industry. We offer a complete line of traffic safety products that include message boards, arrow boards, radar speed monitors, solar school zone flashers, solar 24-hour flashers and many other quality products that serve our industry today.

At K&K Systems, Inc., we strive to improve the quality of our products. We are dedicated to the concept that our customers are our most valuable resource. We strive to serve our customers as we would want to be served.

Tim Keith, President





MANUFACTURER'S WARRANTY

- 1. The manufacturer warrants that all products manufactured by K&K Systems, Inc. will be free from defects in material and workmanship for a period of one (1) year from date of shipment, subject to the conditions and restrictions contained herein.
- This warranty does not apply to a product that has not been installed or maintained in accordance with the manufacturer's instructions, has been subjected to damage in an accident, abused or neglected during operation, repaired or modified by persons other than manufacturer, its employees or authorized agents, or failed to have normal maintenance.
- 3. The buyer expressly agrees that the buyer's sole remedy and the manufacturer's sole responsibility, in respect to a warranty claim, is exclusively limited to repair or replacement at the manufacturer's option, of product or a portion thereof found by the manufacturer to be defective. The manufacturer is not responsible for labor or other expended charges by buyer including transportation chargers, and shall not be liable for any incidental or consequential damages connected with repair of a product deemed to be defective or with installation or replacement of repaired product. Further, the manufacturer disclaims any liability for any incidental or consequential damages, including lost or duplicated time or expense accruing for any reason, to the owner or user or any products sold by the manufacturer, whether claim is made in contract or in tor or under any theory of warranty, negligence or otherwise.
- 4. The manufacturer reserves the right to make changes in its products from time to time, without incurring any obligation to incorporate such improvements in any products previously sold or in service.
- 5. The terms and conditions of the warranty cannot be altered without the written consent of the manufacturer.
- The foregoing warranty is exclusive and in lieu of all other express, statutory and implied warranties INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE. There are no warranties which extend beyond the language in the previous six (6) paragraphs.

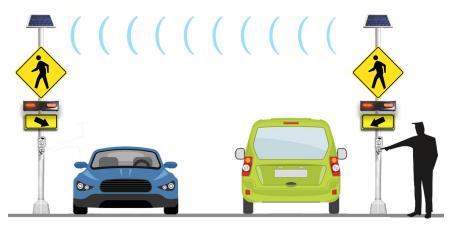
If you have any further questions, please feel free to call us at our toll-free number, 888-414-3003, email info@k-ksystems.com or look us upon the internet at www.k-ksystems.com.



K&K Systems' Rectangular Rapid Flash Beacon (RRFB) is a device using LED flashing beacons in combination with pedestrian warning signs, to provide a high-visibility strobe-like warning to drivers when pedestrians use a crosswalk. In general, RRFBs are a visual cue that pedestrians may begin crossing the roadway at any time. They are always accompanied by crosswalk markings and signs. Crosswalk RRFBs operate by wireless push button activation. When a pedestrian pushes the button to cross the street, the sign is activated and begins to flash to warn drivers of the crossing pedestrians. The flashing pattern can be activated with pushbuttons or automated (e.g., video or infrared) pedestrian detection.

BASIC OPERATION RRFB/CROSS WALK

CrossTalk for pedestrian street crossings where people need to cross safely. Pedestrians simply press the button to activate the CrossTalk device located inside the control cabinet. The CrossTalk wirelessly activates the sign alert LEDs on both sides for the programmed amount of time.



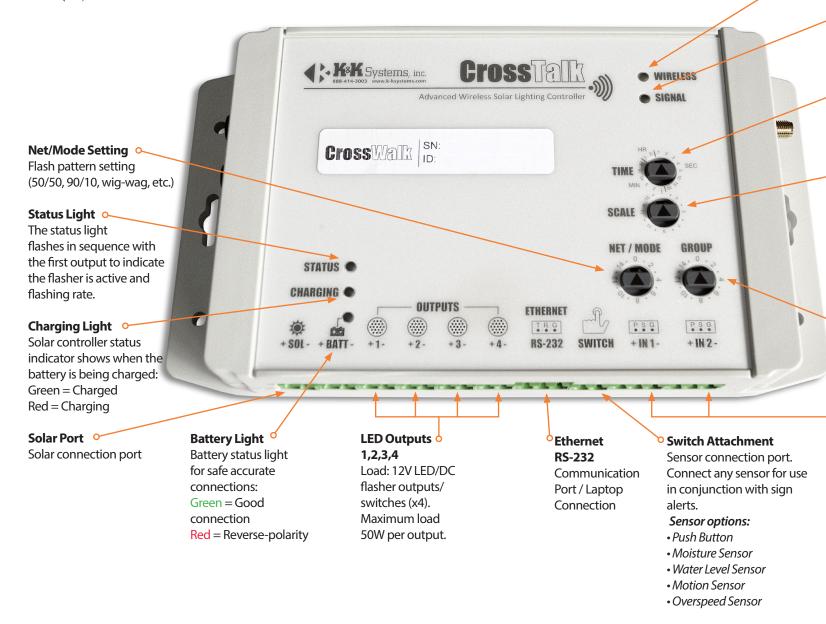
WHAT IS THE CROSSTALK

The CrossTalk is an Advanced, Solar-Powered Lighting Controller. CrossTalk controllers are used for a variety of traffic & safety applications including cross-walk / pedestrian systems, speed/radar systems and more. CrossTalk applications can be setup quickly and provide more functionality and flexibility than traditional "wired" systems.



The CrossTalk device is a rugged, integrated unit which provides a built-in solar controller with Maximum Power-Point Tracking (MPPT), battery management with low-voltage disconnect (LVD), short-range wireless (900MHz), multi-function programmable lighting control, support for up to (4) beacons, auto-dimming, and a scheduler all in one compact enclosure.

DESCRIPTION OF CROSSTALK CROSS WALK CONTROLS



• Wireless Light When lit, indicates that a wireless device is connected

o Signal Light

Indicates the strength of wireless signal during communication

Time Setting

Determines the length of time in either seconds, minutes or hours

Scale Setting

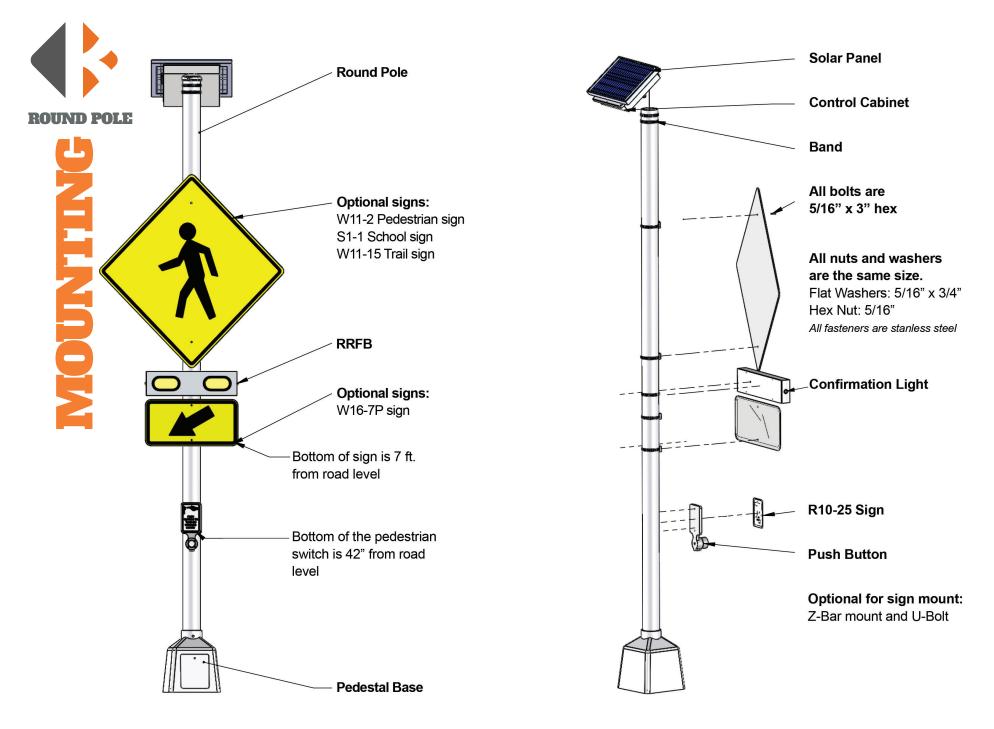
Used as a multiplier in combination with the time setting. (Example: With Time set to 10 SEC and Scale set to 6. The beacon will stay on for 60 seconds (10 SEC x 6)

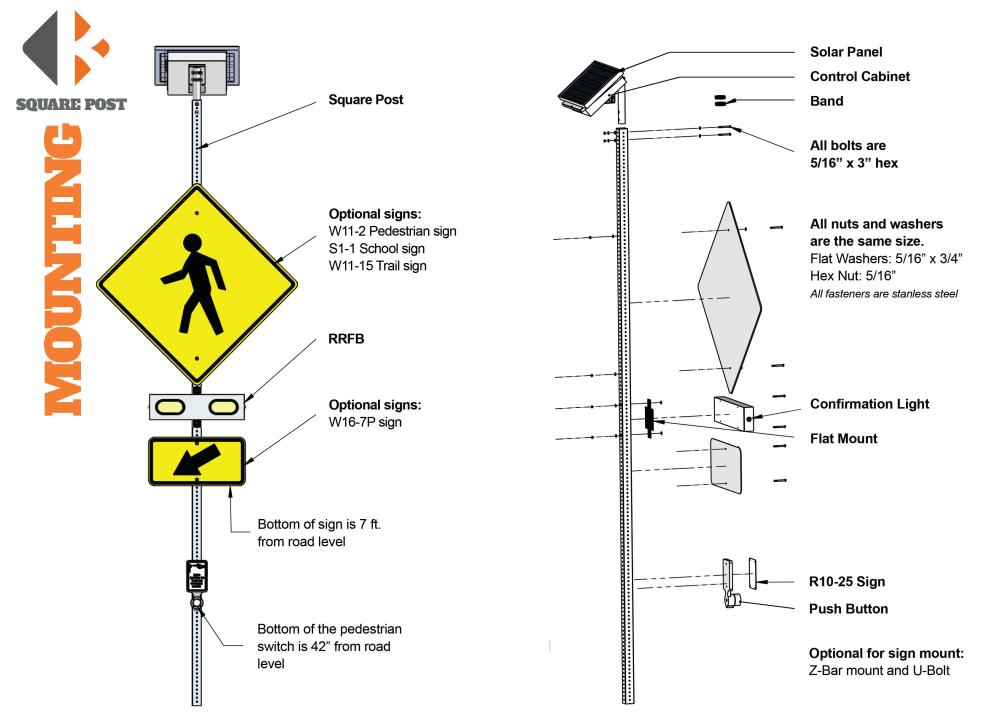
Group Setting

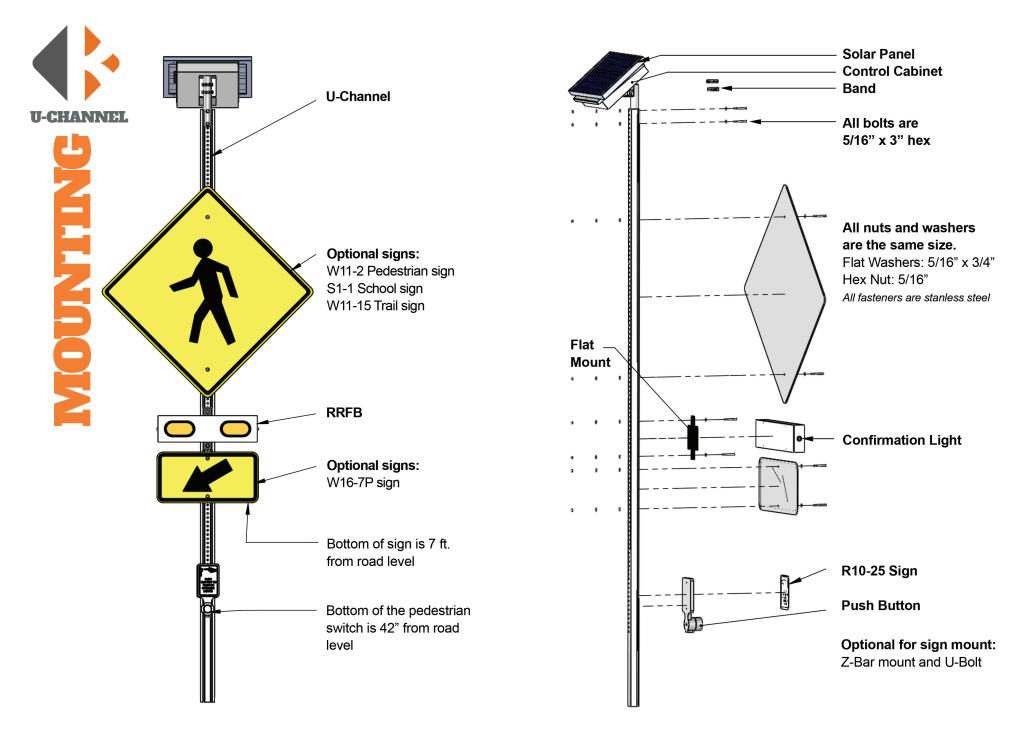
All devices with the same GROUP setting can communicate with each other.

• In 1 / In 2

Digital input range 5-24V DC for radar, advance warning, and more







MODEL ECO-RRFB SPECIFICATIONS

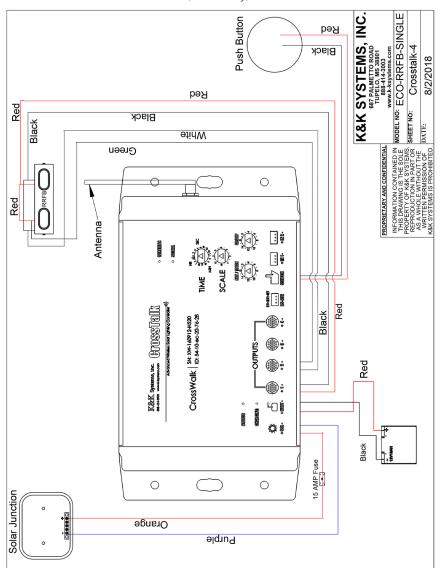
(Meets MUTCD & ITE Standards)

Solar Panel	Maximum Power	(P max)	20W		
	Voltage at Pmax	(V mp)	17.3 V		
	Current at Pmax	(IMP)	1.16 A		
	Short-Circuit Current	(lsc)	1.29 A		
	Open-Circuit Voltage	(Voc)	21.6 V		
Control Cabinet	7.5″ x 11.25″ x 4″	aluminum	located below solar panel		
Battery	(1) AGM	18 amp	included		
Push Button	2" Button with momentary switches rated at 36VDC				
	5" x 7" Button fixture with crossing sign inserted				
Optional	Additional RRFB with mounting hardware				
	Pole with mounting hardware				
	Pedestrian Sign				
	Left Down Arrow Sign				
	Right Down Arrow Sign				
RRFB	Lighting Meets J595 for Class 1				

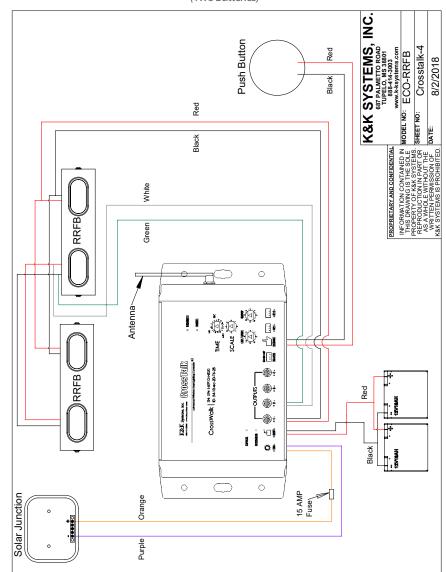


PART NUMBER	DESCRIPTION			
ADD-RRFB	RRFB(Rectangular Rapid Flashing Beacon)			
PB	Push Button			
R10-25	Push Button Sign			
CrossTalk-CW-4	Crosstalk 4-Radio - wireless; 900 mhz radio (Appr. 1500 feet range)			
ECO1-110704	Eco-Cabinet			
BAT-12-18A	18 amp AGM Battery			
DS-A1-20	20 Watt Solar Panel			
OPTIONS				
W11-2	Pedestrian Sign-size per state regulations			
S1-1 School	Sign-size per state regulations			
W11-15 Trail	Sign-size per state regulations			
W16-7P	Left/Right Down Arrow Sign			
DS-A1-30	30 Watt Solar Panel			
DS-A1-40	40 Watt Solar Panel			
CCTR-12 4-1/2"	Spun Aluminum Pole Kit with Base			
CCTUC-12 12'3lb	U Channel Post Kit			
CCTS-12-2	2"x 12'Galvanized Square Post Kit			











PROBLEM	STEP 1	STEP 2	STEP 3	STEP 4	STEP 5
No Power	• Check <i>Battery Light</i> on CrossTalk is on	 If light is off: Check battery voltage is a minimum of 12V. Check for correct polarity of battery wires to CrossTalk 	If batteries are good: • Check internal 10 amp blade fuse. (See pages 22-23 for access to fuse.)	If fuse is good: • Inspect CrossTalk for signs of electrical damage	If problem persists: • Please call us
Not Charging	• Recharge batteries to test	• Check <i>Charging Light</i> is illuminated. Solid or flashing is OK.	If light is off: • Make sure the solar panel is: - clean - facing south - in full sun	• While the solar wires are unplugged from CrossTalk, check voltage of solar wires (minimum of 15V on a sunny day.)	 If low or no voltage: Follow the wires to the panel and check for damage. Ensure wires are connected with correct polarity
Not Flashing	Check batteries for output of 12V	• Ensure CrossTalk is set to the proper setting for desired flash pattern	• Check <i>Status Light</i> for flashing when push button is activated.	 Check inputs for push button Ensure wires are secure in ports 	Check LEDs for 12V output when activated

FUSE LOCATION & REPLACEMENT

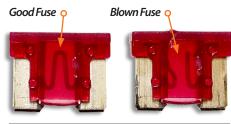
Access the CrossTalk components by removing the CrossTalk from the control box. Turn the CrossTalk onto the face to reveal 4 screws on the backside of the housing on the corners. Loosen each screw until the face cover easily separates from the back of the housing. The screws will remain in the housing.

Carefully lay the cover over as to not to break the connection of the aerial wire.

Locate the 10 amp Low Profile Mini Fuse at the bottom left of the control panel.

Remove the fuse by grasping with fingers and gently rocking the fuse side to side.

Inspect the fuse by looking through the translucent housing at flat wire in the center. If the wire is solid, the fuse is good. In a blown fuse, the wire will be broken.



Low Profile Mini Fuse

Replace the blown fuse with a new one by inserting into the port and firmly pressing it into place.

Align the covers and twist the screws until the covers are snug. Remount the CrossTalk to control box.





687 Palmetto Rd. Tupelo, Mississippi 38801

office: 662.566.2025 fax : 662.566.7123 toll-free: 888.414.3003

email: sales@k-ksystems.com www.k-ksystems.com