

# Rectangular Rapid Flash Beacon: RRFB-XL

**Xtra-Large** Beacons provide greater visibility, ideal for high-speed and multi-lane pedestrian & school crossings



- Driver yielding rates of 80-90%
- Large LEDs exceed FHWA standards
- Wireless, synchronized LEDs
- Solar-powered, eco-friendly
- Up to 30 days autonomy
- Easy installation, maintenance free
- Web-based monitoring/alert option

TAPCO's pedestrian-activated RRFB systems feature large, 7" x 3" LED arrays that exceed FHWA standards. They provide greater conspicuity, ideal for high speed and multi-lane pedestrian and school crossings. When activated, the SAE J595 certified LED arrays flash an FHWA specified, alternating 'wig-wag' pattern. Side-mounted LED arrays flash concurrently to advise pedestrians that the units are flashing.

RRFBs have produced 80% to 90% driver compliance in yielding to pedestrians at high-risk uncontrolled crossings. This is the highest yielding rate of all devices not featuring a red display, and up to 4 times greater than standard round beacons. RRFBs cost less than other devices with similar vehicular yield rates.

Optional offerings from TAPCO include:

Advance RRFB, wirelessly linked to Crossing RRFB  
Standard Sized 5" x 2" RRFB systems

Self-powered remote bollard-mounted pushbutton  
Passively activated systems: radar, infrared

## Applications

- High-Speed And Multi-Lane Crossings
- School Crossings
- Pedestrian Crossings
- Roundabout Crossings

## Benefits

- Larger 7" x 3" LED arrays provide increased visibility & conspicuity
- Significantly higher driver awareness and compliance
- High-intensity LEDs command attention, day and night

## Features

- Multiple units are wirelessly synchronized, flash in unison
- Installation onto new or existing sign poles: single bar or back-to-back available
- Stand-alone, self-powered remote pushbutton bollard available
- 3-year warranty



## Standard specifications (subject to change without notice)

### Xtra Large Rectangular Rapid Flash Beacon RRFB-XL

MUTCD Approval	Interim FHWA Approval Memorandum (1A-11)
Housing	Powder coated aluminum
LED modules: 7 1/4" x 3"	2 arrays of 8 amber LEDs, SAE J595 certified
Pedestrian LED module : 1 1/2" x 3 5/8"	Side-mounted, flash concurrent with Vehicle LEDs
Flash pattern	MUTCD specified 'wig-wag' flash pattern
Mounting hardware	Stainless steel u-bolts for 4" to 4 1/2" O.D. pole

### Solar-assisted Battery-powered System

Housing	NEMA 4X rated fiberglass cabinet with lockable clasps
Solar Panel: 55 Watt	25 1/4" H x 25 3/4" W x 1 1/2" D. Adjustable 40° to 60°. Articulating mount rotates and pivots. Conforms to IP-67
Mounting	Aluminum mounting bracket (fits 4" - 4 1/2" O.D. pole)
Battery (one per assembly)	12V, 40AH sealed gel battery requires no periodic watering. Sealed construction eliminates corrosive acid fumes and spills.
Battery Lifespan	Up to 5 years
Autonomy	Up to 30 days without sun, depending on usage
Control Circuit	IP-67 NEMA rated enclosure: dust proof and waterproof (up to 30 minutes in 3 feet of water)

### BlinkerBeam™ Wireless Communication System

Frequency	900 MHz FHSS
Range	3 miles with optional external antennas. For system separation over 900', a site survey is recommended
Radio	Operates on 900 MHz frequency hopping spread spectrum network. Operating range from 3.6vdc to 15vdc
Connectivity	Crosswalk and optional Advance LEDs flash concurrently
BlinkerBeam™ Wireless Synchronized Activation	Individual units in one system flash in synchronized patterns (avoids light noise of system operation). Ideal for multiple assemblies flashing in the same direction.
Push-button activation*	ADA pushbutton, typical (<120 millisecond)

\*Optional remote, stand-alone pushbutton available (includes self-contained, replaceable battery with typical two-year life)

### Programming

Windows TAPCO configuration software

Optional web-based cellular communication for monitoring and control available

### W11-2 Ped Xing, W11-15 Bike/Ped and S1-1 School Crossing Signs & Plaques (W16-7P or W16-9P)

Sign Substrate (30" or 36" signs)	.080" 5052 highway grade aluminum
Reflective Sheeting	3M™ DG <sup>3</sup> FYG 4083 with anti-graffiti overlay
Mounting Hardware	Aluminum anti-vandal fasteners for signs and RRFB units
Compliance	MUTCD Compliant



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