

Rectangular Rapid Flash Beacon: RRFB-XL

Extra-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 visibility, 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.

RRFB options include:

- Advance RRFB, wirelessly linked to Crossing RRFB
- Self-powered remote bollard-mounted pushbutton
- Passively activated systems: microwave or infrared



Applications

- High-speed and multi-lane crossings
- School crossings
- Pedestrian crossings
- Roundabout crossings

Benefits

- Larger 7" x 3" LED arrays provide increased visibility
- 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



Visit **Traffic and Parking** on YouTube for videos on these products and more.



Pedestrian activated (active or passive)



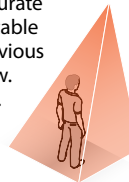
Optional Push Button Activation

Activated with less than 2 lbs. of force. Provides two-tone audible confirmation as well as visual confirmation. Meets ADA, MUTCD and TAC requirements, and housing meets NEMA specifications. Remote mounting available. Audible navigation units are available.



Optional Pedestrian Motion Detector

Active infrared and microwave technologies work together to provide precise presence and accurate motion detection. Mountable between 8' and 16'. Impervious to light, sun rain and snow. Housing is rated NEMA-4.



Optional Wireless Bollard Activation

Pedestrians and bicyclists can passively trigger flashing BlinkerSign™ LED signs, RRFB, BlinkerBeacon™ LED Beacons, in-pavement LEDs and other ITS devices. Actuators are housed in anodized aluminum cabinets that can be secured to concrete or asphalt. Battery operated: no grid wiring required.



Top view



Front view



Side view



Standard specifications (subject to change without notice)

Extra Large Rectangular Rapid Flash Beacon RRFB-XL

MUTCD Approval	Interim FHWA Approval Memorandum (1A-11)
Housing	Powder coated aluminum
LED modules: 7¼" x 3"	2 arrays of 8 amber LEDs, SAE J595 certified
Pedestrian LED module: 1½" x 3⅝"	Side-mounted, flash concurrent with Vehicle LEDs
Flash pattern	MUTCD specified 'wig-wag' flash pattern
Mounting hardware	Stainless steel u-bolts for 4" to 4½" O.D. pole

Solar-assisted Battery-powered System

Housing	NEMA 4X rated fiberglass or aluminum cabinet with lockable clasps
Solar panel: 55 watt	25¼"H x 25¾"W x 1½"D. Adjustable 40° to 60°. Articulating mount rotates and pivots. Conforms to IP-67
Mounting	Aluminum mounting bracket (fits 4" – 4½" 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
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
BlinkerSync™ 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

Optional time clock system available for school zone signs

Warranty

3 year standard warranty