MigmaDSFB™ RRFB

for Wireless Pedestrian Detection at Midblock Crossing

RRFB systems are often activated by pushbuttons. Statistically, during normal time, about 50% of pedestrians do not push the pushbuttons when going across crosswalks or intersections. It is expected that more and more pedestrians will no longer push the pushbuttons during and after pandemic, which could potentially increase pedestrian injures or fatalities.

Migma Systems has developed an alternative product, Distributed Sensing Flashing Beacon (DSFB). The sensor receiver is embedded inside the housing of flasher, drawing power from solar panel or solar battery. Using solar-powered detector, it flashes only when pedestrians who are waiting at midblock curb are detected. Otherwise, it is off! The sensor response time is less than 1 second. Moreover the detector and RRFB can be installed on different poles or posts.

Some vehicle drivers can be easily distracted by devices such as smart phones while driving. These distractions, caused by their devices, are well documented, a rising cause of pedestrian and/or vehicle accidents and sometimes fatalities. Migma Distributed Sensing Flashing Beacon can make a difference! **(USPTO Patent Number: 10,950,122)**

Specification (MUTCD Compliant)

System Operation

Δ RRFB Style	Single- or double-sided
Δ RRFB Dimension	3.5" H x 20" W x 2.6" D
Δ Flashing Rate	MUTCD specification
Δ Night Dimming	Yes through photocell
Δ Operating Time	14 rainy days after fully charged
Δ Weight	20 lb.
Δ Enclosure	NEMA Type 3R+ and IP55 Rated
Δ Material	UV-stabilized polycarbonate
Δ Activation	Pushbutton and/or wireless detector
Δ Warranty	2 years from date of acceptance

Solar Panel and Battery

Δ Solar Panel Power	25W
Δ Battery Capacity	22Ahr

Detector

Δ Sensor	PIR motion sensor
Δ Sensing Range	30 ft (sensor to vehicle)
Δ Comm Distance	1,500 ft (sensor to RRFB)
Δ Power	Solar
Δ Communication	Wireless

Pushbutton & APS

Δ Pushbutton	Regular mechanical button
Δ APS Button	Campbell Guardian for RRFB
Δ Communication	Wireless radio & FCC certified
Δ Comm Controller	Transmitter & receiver with fixed frequency and onboard pairing
Δ RRFB Pairing	Support pairing of 8+ RRFBs

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