



MigmaDSFB™ BikeSafe

for cyclist early detection and signaling at trail crossings



Cyclists riding on bike trails have two distinct features: (1) they often go fast, and (2) they often don't push buttons at trail crossings. Therefore, a cyclist safety system with automated cyclist detection and signal actuation is preferred. Because of the high speed, this safety system also requires the early detection of cyclists, i.e., detecting cyclists when they are 50-100ft from the crossing.

Specification

Beacon Flasher

△ Diameter	12 inch (amber or red)
△ Beacon Activation	Activated by cyclists
△ Luminous Intensity	≥ 4000 cd
△ Visual Distance	≥ 600 ft
△ Operation Time	20 rainy days after fully charged
△ Enclosure	NEMA Type 3R+ and IP55 Rated
△ Material	UV-stabilized polycarbonate

Solar Panel and Battery

△ Solar Panel Power	25W
△ Battery Capacity	20aH

Cyclist Detector

△ Sensor	PIR motion sensor
△ Sensing Range	30 ft (sensor to cyclist)
△ Wireless Distance	1500 ft (sensor to beacon flasher)
△ Sensor Power	Solar
△ Communication	Wireless

Migma Systems has developed an innovative 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 cyclists who are approaching to the crossing are detected. Otherwise, it is off! The sensor response time is less than 1 second. Moreover the detector and beacon flasher 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 the use of various devices, are well documented. Migma's Distributed Sensing Flashing Beacon (DSFB) can make a positive difference! **(USPTO Patent Number: 10,950,122)**



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