

## Rectangular Rapid Flashing Beacon (RRFB) for Crosswalks

### Kali-Flash™

Kali-Flash is a pedestrian-activated flashing light system designed to enhance safety at pedestrian crossings.

Discover the benefits of our system:

- **Optimal visibility:** Powerful, oversized flashing lights capture the attention of drivers, reducing the risk of accidents.
- **Dynamik™ Connectivity:** Our real-time monitoring solution allows for tracking the status and performance of Kali-Flash, ensuring optimal operation.
- **Easy installation:** Quickly adapts to all types of locations without requiring complex work.
- **Simplified maintenance:** A robust design that minimizes maintenance needs for greater peace of mind.



## Standard features

### System

Operating temperature: -40°C to +80°C

### Beacons



Module compliant with MUTCD 11th edition standards (Chapter 4L) and ONTARIO: OTM Book 15

Black powder coated vandal-resistant aluminum cabinet

Two amber LED lamps measuring 76 mm x 178 mm (3"x7"), UV-resistant

Amber LED side indicator light (25 mm x 75 mm) to inform pedestrians of the operation of the frontal lights

Automatic adjustment of intensity based on ambient light, MUTCD 11th edition

ROHS certified LEDs

SAEJ 595 Class 1 compliant

### Control Box



Corrosion-resistant aluminum enclosure providing excellent protection for the battery control module, featuring a lockable door with key-operated quarter-turn lock.

Easy access for maintenance, diagnostics, and adjustment of crossing times

Nema 4X electronic enclosure and IP 65

IC and FCC certified

## Energy management

### Solar Panel



Monocrystalline solar panels: for better charging even on coldest days

✓

✓

360° adjustment of solar panels for optimized installation

✓

✓

Autonomy without recharging: 7 days with 400 activations/day - Flash duration at 20 sec

✓

✓

TUV, CE and IEC certified

✓

✓

### Battery



Sealed, replaceable, maintenance-free recyclable AGM-type batteries, provide the widest temperature range, longest lifespan, and high performance in cold weather:

- Recharge down to -20°C
- Discharge down to -40°C

✓

✓

Standard set: 50W / 1 battery (20Ah)

✓

✗

Long battery life set: 50W / 2 batteries (40Ah)

✗

✓

Maximum power set: 100W / 2 batteries (40Ah)

✗

○

Other battery chemistries available upon request

✓

✓

## Energy management

Regular

Premium

### Electrical



Power supply unit : 120-240 VAC - 12 VDC converter

✓

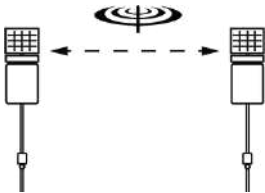
✓

## Communication

Regular

Premium

### Between the structures



- Synchronization of lights on both sides of the road
- Light operation from 1 second to unlimited
- Communication mode: Bluetooth Low Energy
- Interconnected products: Up to 7 products together on a single crossbar. Unique coupling avoids interference with nearby installations.
- Supported bands: 2.4 GHz, 40 channels
- Transmission distance: up to 350 meters (1137.96 feet)

✓

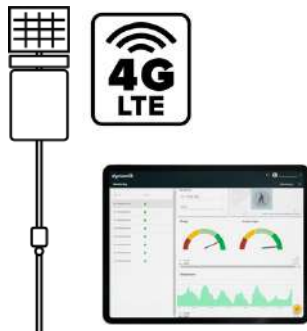
✓

Transmission distance: unlimited with Dynamik platform option

✗

✓

### Remote connectivity with Dynamik™ web platform



- Network: 4G LTE
- Category: Cat-M1/NB2 (NTN)
- Frequency bands: B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B23, B25, B26, B28, B66, B85, B255, B256
- SIM compatibility: Multi-operator
- Communication protocol: TCP
- Certifications: PTCRB, FCC, IC

✗

✓

Cloud platform (Windows, IOS & Android compatible)

✗

✓

Scheduling the remote activation and deactivation of a unit within a predefined time range

✗

✓

Remote control and parameterization of structures

✗

✓

System performance statistics: activations, battery charge, solar panel status, battery voltages, control cabinet temperatures (5°C above ambient) and ambient brightness

✗

✓

Malfunction and/or low battery alerts, in the platform and by e-mail

✗

✓

Dynamic design and responsive dashboards

✗

✓

The system comes with 1 year of free remote connectivity with statistics and alarms

✗

✓

Extended connectivity time available on request

✗

0

## Warranty

Regular

Premium



Components and labor

2 years

3 years

5-year extended warranty available on request

0

0

## Supports and mounts

Regular

Premium



Hot-dip galvanized elliptical post, 50mm (2"), powder-coated in black polyester with unpainted brackets	✓	✗
Hot-dip galvanized round post, 100mm (4") with black powder coated brackets	✗	✓
Decorative base cover for 100 mm post (4 in) - black powder coated	✗	○
Universal mounts for installation on existing pole	○	○
Other installation systems available upon request	○	○

## Activation

Regular

Premium

Push Button 4EVR® MOAB	✓	✓
Pedsafety Guardian® Button	✗	○
Passive pedestrian detection	✗	○
Other brands and models available upon request (e.g. Polara).	○	○

### Piezo Push Button 4EVR® MOAB



The MOAB Piezo push button offers improved responsiveness, exceptional durability, and a modern design, outperforming mechanical buttons for an optimal user experience (ADA compliant).

- Audible signal on activation (complies with MUTCD 11th edition).
- Certified resistant NEMA TS 2 and waterproof NEMA 250 - 6P.

### Pedsafety Guardian® Button

The smart button Guardian is equipped with a speaker that informs people with reduced mobility of the flashing lights (ADA compliant).



### Passive pedestrian detection

The lights turn on automatically when a pedestrian is detected, but only if they show the intention to cross.

Activation will not occur if:

- A pedestrian approaches without intending to cross.
- A pedestrian who has already crossed arrives from the other side.

