LIGHTGUARD SYSTEMS®

LightStar™ Plus with SMPL™

Part Number: LGS-M11A-SMPL

Description: IRWL - In Roadway Warning Light fixture in a black fiberglass reinforced thermo-plastic housing with flashing amber LED & non-flashing white Surface Mount Pedestrian Luminaire (SMPL™) LED

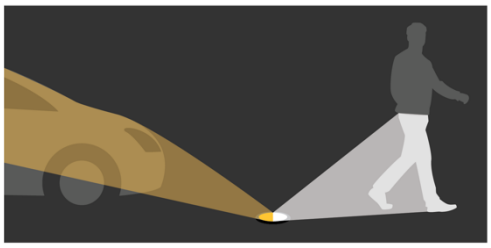
Features/Benefits:

- Most effective traffic calming measure
- High-intensity flashing amber LEDs
- SMPL™ white pedestrian luminaire
- Ruggedized polyurethane exterior
- moisture-resistant design
- Visible up to 1,000 feet
- Easily mounts to in-roadway baseplate
- 12 VDC operation
- MUTCD Ch. 4, Sec. N compliant

Application Notes:

LightStar™ Plus is the next-generation in-roadway light with a moisture-resistant design, surface mount pedestrian luminaire (SMPL™), and black exterior.

The amber LEDs flash towards the motorist at the highly visible enhanced Enlighten1™ rate, which is photosensitive epilepsy safe. The white LEDs illuminate towards the pedestrian and energize simultaneously with the amber LEDs in a continuous non-flashing solid white for the cross-time duration. Once activated, the amber LED portion of the light fixture flashes, warning motorists up to 1,000 feet in advance. The white LED SMPL™ portion of the light fixture also simultaneously energizes via time selectable activation at nighttime.



LightStar™ Plus simultaneously warns motorists and illuminates pedestrians at nighttime

The light fixture contains custom-engineered optics for precise focused light output using high-intensity LEDs. The fixture fits tightly into protective base plate models LGS-SD10-C and LGS-CHS-14 & fastens using stainless steel button head 1/4"-20 screws with thread locks and factory applied anti-seize compound.

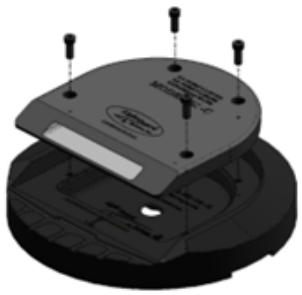
IRWLs alert motorists of pedestrians inside, or about to enter the crosswalks, and used at mid-block and other uncontrolled public, school zone, campuses, trails and facilities. Activation methods are push button, passive detection bollard, or motion activated sensor.

Pursuant to MUTCD Sec. 4N.05 & .06, IRWLs should be installed in the center of each traffic lane, at the center line of the roadway, at each edge of the roadway or parking lanes, or at other suitable locations away from observed tire track paths. Placement within lanes should be based on engineering best judgement. Refer to our published installation layouts.

DAYTIME
Amber Warning Lights

NIGHTTIME
Amber Warning Lights & White Pedestrian Luminaire

General Performance Specifications

Parameter	*Flashing Amber LEDs*	*No Flash White LEDs*	*Typical Mounting to Baseplate*
Visibility	30° viewing angle (± 15°)		
Light Intensity	118cd; visible up to 1 mile	2.3 ft. candle @ 5 ft.	
Operating Temp	-20° to 50°C		
Operating Voltage	12VDC to 14VDC		
DC Current @ 12 VDC	<0.2 A nominal	<0.2 A nominal	
Avg Power Dissipation	2.5 W max	2.5 W max	
Housing material	Polyurethane		
Housing color	Clear		
LED color	Amber, 595 nm	White 4000 k	

Usage Notes and Limitations: The LGS IRWL designed to operate in a pulsed manner for compliance with MUTCD Chapter 4N. MUTCD states that steadily illuminated lights installed in the roadway surface are considered to be Internally Illuminated Raised Pavement Markers (IIRPM). When any LGS IRWL are used as IIRPM instead of IRWL, the manufacturer's warranty will not apply. Additionally, if customers operate any LGS IRWL as IIRPM, the drive voltage should be controlled/reduced so as to limit the current/power consumed (with commensurate reduced brightness) to mitigate the risk of higher thermally induced failure rates.

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