

LED Warning Light Selector Guide

Choose a Guardian Glow configuration for your equipment and operating environment

Guardian Glow warning lights are designed to add a visible projected boundary around mobile equipment. The right configuration depends on the equipment, the area you want to highlight, mounting location, power source, and installation environment. This guide provides a starting point for selecting between the U-Light and multi-light / Dual Glow configurations.

Need help selecting a system? Send us the equipment type, quantity, operating environment, and photos of the equipment. Our engineering team can help recommend a lighting and cable configuration for the application.

Quick Selector

Create one continuous U-shaped projected boundary	U-Light
Position warning light projections at multiple sides or locations	Dual Glow / multi-light configuration
Forklift application with a simple equipment-mounted solution	U-Light or Dual Glow depending on desired projection pattern
Large or irregular construction equipment	Multi-light configuration for flexible placement
Need a specific cable length or equipment-side connection	Either system with a standard or custom AVR cable assembly

U-Light

Best starting point when: You want a single light to create a U-shaped projected boundary around the equipment.

- Useful for forklifts and other equipment where a single mounting location can provide the desired projected pattern.
- Simplifies the lighting layout by using one primary projected U-shaped boundary.
- Final mounting position and aiming depend on the equipment geometry and desired boundary location.
- Can be paired with standard or custom cable assemblies based on the distance to the equipment power source.

Dual Glow / Multi-Light Configuration

Best starting point when: You want greater flexibility in where warning projections are positioned around the equipment.

- Individual lights can be positioned around the equipment based on the desired warning area.
- Useful when equipment geometry or operating conditions make one central projection less practical.
- Can support forklifts, construction equipment, specialty vehicles, and other mobile machinery.
- Cable routing and mounting can be configured around the number and location of lights.

Shared Lighting Specifications

Operating voltage	DC +10-80V
Housing	Aluminum die-cast housing
Protection / certification	IP67 / CE with GORE
LED source	OSRAM LEDs
Working life	50,000 hours
Environmental range	-49°F to 185°F
Cable options	6 ft / 12 ft / 25 ft / 50 ft / custom

Select by Application

Match the warning-light layout to the equipment and installation objective

Forklifts

U-Light is a strong starting point when a single U-shaped projected boundary is desired. Dual Glow / multi-light configurations provide additional flexibility when projections are needed at multiple sides or specific locations.

Excavators & Loaders

Multi-light configurations can provide flexible placement around larger or irregular equipment. Mounting and cable routing should account for booms, articulation, hydraulic movement, and operating clearances.

Skid Steers & Compact Equipment

Either approach may be appropriate depending on available mounting space and desired projection. Cable routing should remain clear of lift arms, attachments, tracks/tires, and service areas.

Dozers & High-Vibration Equipment

Select mounting appropriate for vibration, shock, and terrain. Multi-light placement may provide flexibility around equipment geometry. Secure/permanent mounting may be preferable to magnetic mounting in severe-duty applications.

Telehandlers

Lighting placement should account for boom extension, carriage movement, steering, stabilizers, and attachment clearance. Select the configuration that provides the desired boundary without interfering with machine movement.

Fleet / Specialty Vehicles

Select the projected pattern based on the work zone around the vehicle. Custom cable assemblies can support equipment-specific power and connector requirements.

Mounting Selection

Suitable ferrous surface; moderate operating conditions	Magnetic mounting may provide a flexible installation option.
High vibration, severe terrain, or impact exposure	Use an appropriately engineered secure/permanent mounting method.
Frequent equipment changes or temporary evaluation	A removable mounting approach may be useful when appropriate for the operating conditions.
Uncertain mounting location	AVR engineering can review equipment photos and proposed light placement.

Cable Selection

- 6 ft - short equipment-side routing or nearby power source
- 12 ft - general equipment installations
- 25 ft - larger equipment or longer routing paths
- 50 ft - extended routing requirements

- Custom - equipment-specific length, connector, branching, protection, labeling, or kitting requirements

What to Send Us

- Equipment type, manufacturer, and model
- Quantity of equipment to be outfitted
- Equipment/battery voltage
- Desired warning area or projected pattern
- Photos showing possible mounting locations
- Approximate distance from light location to power source
- Operating environment and any vibration, heat, abrasion, or weather concerns

Still deciding?

You do not need to select the complete configuration on your own. AVR Global Technologies can review the application and help determine the light layout, mounting approach, cable length, and connection method for your equipment.

Important: This selector is a general reference. Final product selection, mounting, electrical connection, and projected-boundary placement depend on the specific equipment and operating environment. Projection distance, beam angle, and lumen output are not specified in this guide because those values have not been confirmed in the supplied product documentation.