Technical Specifications





AMBER AND RED LAMP **PRODUCT SPECIFICATIONS**

MATERIAL: ABS HOUSING/HIGH IMPACT ACRYLIC LENSES FINISH: AMBER/AMBER; RED/BLACK **ASABE: MEETS ASABE S279 LIGHTING** SPECIFICATIONS FMVSS: SAE VERSIONS MEET ALL FMVSS 108 REQUIREMENTS ECE: ECE VERSIONS MEET REG. 6 (AMBER, REAR DIRECTION INDICATOR) REG. 7 (RED, STOP, REAR POSITION) **IP67** COMPLIANT VOLTAGE: BI-VOLTAGE, 12 AND 24 VOLT WIRING: 18 GA GPT WITH UV INHIBITOR COMPLIANT WITH SAE J1128

FLASHER CONTROL MODULE PRODUCT SPECIFICATIONS

NOMINAL DESIGN VOLTAGE: 12 VDC - 13.8 VDC HIGH/LOW VOLTAGE LIMITS: 10 VDC - 15VDC DESIGN CURRENT LOAD: 4 AMPS HIGH FILAMENT OUTPUT (4 TOTAL), 4 AMPS TAIL LIGHT OUTPUT **OVER CURRENT PROTECTION: REQUIRES MAX 15 AMP CUSTOMER FUSE OPERATING TEMPERATURE:** -30°F TO 150°F HOUSING MATERIAL: COPOLYMER, POLYPROPYLENE, BLACK **MAXIMUM MOUNTING FASTENER SIZE:** 1/4" **OPERATION: OPERATES WITH LED AND INCANDESCENT LIGHTING** WIRING: 16 GA GPT WITH UV INHIBITOR COMPLIANT WITH SAE J1128

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Grote's Agricultural Lighting System



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A COMPLETE ASABE S279 LIGHTING SYSTEM



Grote's Complete Solution

NOW, INCREASED MOUNTING FLEXIBILITY, DURABILITY, AND PRODUCTIVITY ARE AVAILABLE IN A COMPLETE ASABE S279 LIGHTING SYSTEM.

Grote's new crop of LED agricultural lamps are part of a complete system that includes a specially designed family of lamps and flasher control modules that link lighting on towed or mounted equipment to the powered vehicle.

advanced lens optics that provide enhanced mounting flexibility while maintaining the required light output to the side. This The lamps include a double faced amber warning lamp and a eliminates the need for extra circuitry specifically dedicated to single side red stop/tail/turn lamp, available **Power Harness from Tractor** side illumination. The Grote lamps contain circuitry completely in pedestal and surface mount models. The encapsulated in potting to enhance thermal management and surface mount lamps can be mounted in improve vibration resistance. In addition, they employ 12/24 single-lamp or dual-lamp configurations. bi-voltage circuitry and are Either configuration can be mounted in certified to meet IP67 vertical, horizontal, or inverted orientation specifications providing **Flasher Control Module** and still meet ASABE S279 lighting maximum protection from specifications. All lamps are available with dust and water intrusion. either Packard or Deutsch connectivity. Harness to Lamps **HOW DOES THE FLASHER CONTROL MODULE WORK ?** IAMP DRIVING MODE **TURNING MODE Amber / Amber** Flashing In Unison With Tractor. Opposite Of Turn - Lamp is Steady On Warning Lamps | 60-85 Flashes Per Minute Turn Side - Flash Rate Increases by 20 Flashes Per Minute **Red / Black** Tail Function in Steady Burn Mode Opposite Of Turn - Lamp is Steady On Stop/Tail/Turn Turn Side - Lamp Flashes High Intensity/Low Lamps Intensity in Unison with Amber/Amber Lamp

Designed to prevent unplanned downtime, the lighting system

provides a new level of power efficiency, mounting flexibility,

and shock and vibration resistance. The lamps incorporate



Harnesses

- Joins with lamps and control module creates a total lighting solution
- Helps prevent unplanned downtime
- Custom-designed to meet any lighting configuration
- Splice point over-mold design increases corrosion protection
- Durable harness jacketing protects against weather, abrasion, and corrosive chemicals
- Power Harness receptacle's tough solid core design provides a more consistent connection
- Power Harness's solid brass terminals are corrosion resistant; provide superior current capacity with minimum voltage drop
- Power Harness's weather tight 7-way plug with cable jacket molded into the plug using a patented adhesive seal provides ultimate protection

Flasher Control Module

- Each flasher control module is specific to an individual customer's system
- Wide diameter mounting holes provide durable attachment points to the vehicle
- Available with Packard or Deutsch connections
- Meets ASABE S279 requirements
- 16 gauge wires contain UV inhibitor compliant with SAE J1128 to prevent fading of wire jacket color



Lamps

- 12/24 bi-voltage design
- Pedestal and surface mounts available
- Complies with FMVSS 108 and ASABE S279 regulations
- Available with Packard or Deutsch terminations
- Thin, low profile design minimizes chance of damage
- Potted circuitry provides better vibration performance and moisture resistance
- Lamps pass all requirements in horizontal, vertical, and inverted position
- 18 gauge wires contain UV inhibitor compliant with SAE J1128 to prevent fading of wire jacket color



