Technical Specifications

**AMBER AND RED LAMP**

**PRODUCT SPECIFICATIONS**

- **FINISH:** Amber/Amber, Red/Black
- **ASA8E:** Meets ASA8E S279 Lighting Specifications
- **FMVSS:** See versions meet all FMVSS 108 requirements
- **Reg.:** See versions meet Reg. 6 (Amber, Rear Direction Indicator), Reg. 7 (Red, Stop, Rear Position)
- **IPE3 COMPLIANT**
- **VOLTAGE:** Bi-voltage, 12 and 24 volt
- **Wiring:** 16 GA GPT with UV Inhibitor compliant with SAE J128

**FLASHER CONTROL MODULE**

**PRODUCT SPECIFICATIONS**

- **NOMINAL DESIGN VOLTAGE:** 12 VDC - 13.8 VDC
- **HIGH/LOW VOLTAGE LIMITS:** 10 VDC - 15 VDC
- **DESIGN CURRENT LOAD:** 4 Amps 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 J128

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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. The lamps include a double faced amber warning lamp and a single side red stop/tail/turn lamp, available in pedestal and surface mount models. The surface mount lamps can be mounted in single-lamp or dual-lamp configurations. Either configuration can be mounted in vertical, horizontal, or inverted orientation and still meet ASABE S279 lighting specifications. All lamps are available with either Packard or Deutsch connectivity.

Grote’s new Complete Solution provides a new level of power efficiency, mounting flexibility, and shock and vibration resistance. The lamps incorporate advanced lens optics that provide enhanced mounting flexibility while maintaining the required light output to the side. This eliminates the need for extra circuitry specifically dedicated to side illumination. The Grote lamps contain circuitry completely encapsulated in potting to enhance thermal management and improve vibration resistance. In addition, they employ 12/24 bi-voltage circuitry and are certified to meet IP67 specifications providing maximum protection from dust and water intrusion.

How Does the Flasher Control Module Work?

- **Amber / Amber Warning Lamps**
  - Flashing In Unison With Tractor
  - Opposite Of Turn - Lamp is Steady On

- **Red / Black Stop/Tail/Turn Lamps**
  - Tail Function - Steady Burn Mode
  - Opposite Of Turn - Lamp is Steady On

Turning Mode

- **Turn Side** - Flash Rate Increases by 20 Flashes Per Minute

- **Opposite Of Turn** - Lamp Flashes High Intensity/low Intensity in Unison with Amber/Amber Lamp

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

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

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