

# VISION3 LIGHTING

## MR16 / LED Sign Light **MODEL SL1** 12V 50W Max., MR16 Halogen 12V 8W Max., COB LED w/ Driver

### Specifications

#### Material

Available in machined 6061-T6 aluminum or C36000 brass. All hardware 18-8 stainless steel.

#### Head

Machined head comes in two styles: Side Mount and Rear Mount. (See illustration for aiming capability of each head style.)

#### Stem

1" diameter machined stem comes in various stem lengths and three stem styles: Straight, 180° U-Bend, and 90° Gooseneck. (See illustration for calculating overall projection from wall for each stem style.)

#### Knuckle

Rotate and Lock knuckle (protected under U.S. Patents #6,966,679, #7,108,405 and #7,458,552) mounts the head to the stem and allows for adjustability. Double taper design allows fixture to hold position during aiming and ensures a solid lock when tightened. Molded silicone wire seal prevents water entry around wires at knuckle.

#### Cap

Machined caps lock in place with one set screw, and are sealed to the body with a high temperature silicone O-ring. Regress Lens caps have drain holes for water drainage from top of lens if mounted in the up position. "Flush Lens" cap styles incorporate a stepped lens to reduce the collection of water and debris on the lens. All caps accept up to two internal accessories, held in place by a stainless steel clip.

#### Mount Canopy

Available with the following mount options: MO3 (Machined Round Canopy), MO15 (Machined Square Canopy), and MO12 (Surface Mount Powered Canopy). See US mount specification sheets



for more information. (Mount canopy must be mounted to an appropriate wall or junction box, in such a manner that is capable of holding the weight and torque created by the fixture. Junction box and hardware not included).

#### Finish

TGIC thermo set polyester powder coat paint available in 14 standard colors. On aluminum model, finish is applied over a corrosion resistant, hexavalent chromium free, RoHS compliant coating. Aluminum model available in one additional metal finish: Clear Anodized. Brass model available in three additional metal finishes: Natural, Polished, and Aged.

#### Lens

Tempered, clear lens, secured to cap with a high temperature, UV curing, silicone adhesive.

#### Socket

GY-6.35 porcelain socket with 600V, 250°C, PTFE coated 18 ga leads (for MR16 Halogen & MR16 LED options).

#### Light Engine<sup>11</sup>

**COB LED:** Both COB LED light engine options use industry standard replaceable components for ease of field maintenance and future upgrades and includes features like: field changeable optics (15°, 24°, 36°, 55°, 65°), choice of color temperature (2700K, 3000K, 3500K, 4000K), CRI (80, 90), and an L70 > 40,000 hrs.

**Integral Driver COB LED:** Includes a field replaceable low voltage driver in three current choices for 400lm, 700lm, or 1000lm nominal light output. Driver features include: 12VAC input (+/- 10%), ELV and MLV phase dimming (contact V3 for dimmer compatibility), high power factor (> 0.9), and internal protection (short circuit, overload, thermal, auto-reset).

**Remote Driver COB LED:** Requires 350mA max. Vision3 approved constant current Driver Mount (see Ordering Information below). Features a nominal light output of 1600lm (with 15W max., 350mA driver mount). Note: see specification sheet of Driver Mount being specified for appropriate driver ratings and inputs.

**MR16 Halogen:** 12V bi-pin up to 50W (allowable wattage depends on model. See Certification heading). Lamp supplied by others.

**Retrofit MR16 LED:** 12V 7.5W (600lm) bi-pin retrofit Soraa™ MR16 LED lamp with specially engineered heat sink mount to ensure proper heat transfer to body. Note: Retrofit LED will overheat without supplied heat sink mount.

#### Certification

CSA tested & certified to US and Canadian safety standards for wet location wall mount (UL1598) use:

#### Integral Driver COB LED:

**Integral Driver COB LED available in all configurations.**

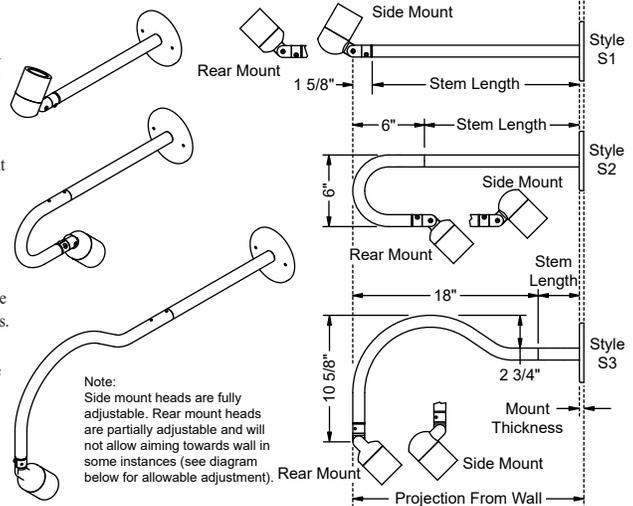
#### Remote Driver COB LED:

**SL1(A or B) - 350mA max driver current.**

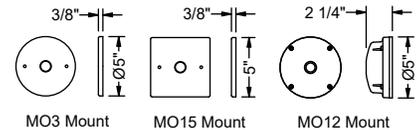
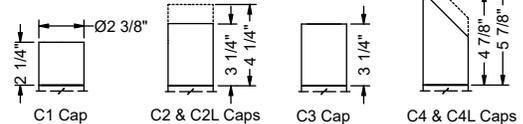
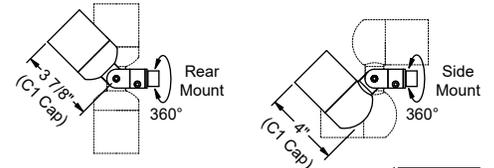
#### MR16 Halogen:

**SL1A - 50W Max.  
SL1B - 35W Max.**

All ratings subject to change without notice. See website or contact V3 for most current info.



Projection From Wall = Stem Length + Mount Thickness + 1/8" (for Style S1)  
1/8" (for Style S2)  
18" (for Style S3)



### Ordering Information

Model	Finish	Head	Cap Style	Style	Mount <sup>5</sup>	Light Engine <sup>11</sup>	Lens Accy <sup>7</sup>	Louver <sup>7</sup>
SL1A - Aluminum SL1B - Brass <sup>1,2,3</sup>		SM - Side Mount RM - Rear Mount <sup>4</sup>	<b>Standard Lens:</b> C1 - Flush C2 - Regress Lens C2L - Regress Lens, Long C3 - Regress Lamp C4 - 45° Angled C4L - 45° Angled, Long <b>Flush Lens:</b> C1F - Flush C2F - Regress Lens C2LF - Regress Lens, Long C3F - Regress Lamp C4F - 45° Angled C4LF - 45° Angled, Long	S1 - Straight <sup>1</sup> S2 - 180° U-Bend (12" to 42" stems) <sup>1</sup> S3 - 90° Gooseneck (up to 30" stem) <sup>1</sup> <b>Stem</b> 3 - 3" 6 - 6" 12 - 12" 18 - 18" 24 - 24" 30 - 30" 36 - 36" <sup>3</sup> 42 - 42" <sup>3</sup> 48 - 48" <sup>3</sup>	<b>Low Voltage Mounts (Remote Transformer Required):</b> MO3 - Round Canopy MO15 - Square Canopy MO12 - Surface Mount Canopy <b>Line Voltage Mounts (Integral Transformer):</b> MO12-75-120 - MO12 w/ 75W, 120V MO12-75-230 - MO12 w/ 75W, 230V <sup>8</sup> MO12-75-277 - MO12 w/ 75W, 277V <sup>8</sup> <b>Driver Mounts (Remote Driver COB LED only):</b> MO12-15-UNV-350-TRI - MO12 w/ 15W, 120-277V, 350mA	<b>MR16 Halogen:</b> <sup>2</sup> 0 - None (lamp by others) <b>Retrofit MR16 LED:</b> <sup>4,8</sup> 155 - 7.5W, 600lm, 90CRI, 3000K, 10° 156 - 7.5W, 600lm, 90CRI, 3000K, 25° 157 - 7.5W, 600lm, 90CRI, 3000K, 36° <b>Amber MR16 LED (Turtle Safe):</b> <sup>8</sup> AM1 - 5W, 380lm, 85CRI, 30°, Turtle Safe Amber <sup>7</sup> <b>Integral Driver COB LED:</b> <sup>4,9</sup> LE2 - XXXX - X - XX - XX <b>Lumen Output</b> 0400 - 4W, 400lm 0700 - 8W, 700lm 1000 - 8W, 1000lm <b>CRI</b> 8 - >80 9 - >90 <b>CCT</b> 27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K <b>Optics</b> 15 - 15° 24 - 24° 36 - 36° 55 - 55° 65 - 65° 65 - 65°	0 - None L1 - Spread L2 - Linear L3 - Softening	0 - None H1 - Hex

#### Notes:

- Style S2 and S3 not available with SL1B.
- Lamps over 35W not available with SL1B.
- Stem lengths longer than 30" not available with SL1B.
- Rear Mount head has limited adjustability and will not aim back towards the wall when on an S1 Style stem. See illustration above for aiming capability.
- See mount specification sheets for mount details.
- Use only approved 7.5W Retrofit MR16 LED lamps and supplied heat sink mount, otherwise LED may overheat.
- AM1 Turtle Safe Amber LED can only be specified with 1 lens accessory.
- Retrofit LED, Amber LED, and Integral Driver COB LED options may not be compatible with MO12-75-230 and MO12-75-277 mounts. Only power LED Light Engine options with approved transformers (contact V3 for mount, transformer, and dimmer compatibility info).
- Integral Driver COB LED Light Engine options do not require a separately specified remote driver. See specifications above for required voltage input.
- Remote Driver COB LED Light Engine options must be used with Driver Mounts shown.
- All lumen values cited are nominal lumen output (ideal lumen output of light engine only in lab conditions). Actual fixture output will vary with cap type, material, lens/optics options, and environmental conditions. For more accurate information, see fixture photometry files on website.
- Specifications, certifications, and ordering information are subject to change. Please check website for latest specification sheets.

**Example: SL1A - BL - SM - C3 - S2 - 24 - MO15 - LE2-0700-9-30-36 - 0 - H1**