

**MODEL 112-S12R SPECIFICATIONS**

Single 12" Yellow/Amber LED School Zone Beacon w/Radar (Meets MUTCD &amp; ITE Standards)

**Solar Panel**

- Maximum Power (P max) 80 W
- Voltage at Pmax (V mp) 17.3 V
- Current at Pmax (IMP) 4.62 A
- Short-Circuit Current (Isc) 5.14 A
- Open-Circuit Voltage (Voc) 21.6 V

**Solid State Regulator****Electrical Specifications:**

- Voltage: 12/24V
- Rated Solar Input: 10A
- Rated Load Current: 10A
- Equalization Voltage: 14.8V
- Boost Battery: 14.4V
- Float Battery: 13.6V
- Low Voltage Disconnect: 11.1V
- Low Voltage Reconnect: 13.1V
- Self-Consumption: 6 mA
- Operating Temp. -35 to +55°C

**Traffic Hazard Beacons****Polycarbonate Housing:**

- 12" light housing plastic injected molded polystyrene tufen u.v. impregnated material for ultra violet rays

**LED:**

- Color Yellow/Amber
- Applied Voltage 12VDC
- Power Consumption (watts) 5
- Dominant Wavelength (nm) 592
- On Axis Luminous Intensity (Min) 350 cd
- LEDs per signal lamp 121
- Intensity loss due to single LED failure 1.2%
- Operation Temperature -40°F to +165°F

**Solid State Flasher**

- Input voltage of 12 VDC
- Flash rate 60 F.P.M.
- Input voltage of 12 VDC (2 terminals)
- Two outputs of 12 VDC (4 terminals)
- Capable of switching 5 amps @ 12 VDC
- Input and output terminals 1/4 male quick connect
- Epoxy encapsulated construction
- Flasher is 3" x 1½", two outer mounting holes

**Control Cabinet/Battery**

- Cabinet is 24" x 15" x 9", .080, aluminum, "lockable", to be located per state specifications.
- Recommended battery shall be 100 amp deep cycle marine. **(Options Available)**
- Signage and pole. **(Options Available)**

**Programmable Timer Module**

- 500 Program Steps – Steps may be assigned to any program for a total of 500 steps.
- 32 Programs – Main program plus 31 alternate programs that are called by the exception periods.
- 63 Exception Periods – Periods that call alternate programs.
- Programmable Momentary Outputs – Timed outputs from 1-250 seconds.
- 1, 2 or 4 Relay Options – 16A 30VDC/250VAC
- Nonvolatile Memory – Retains program data with loss of power.
- Clock Capacitor Backup – Powers clock during power loss.
- DC and Backup Power Clock Accuracy - +/- 0.002% at 78F
- Synchronous Timing on AC Power
- Automatic Leap Year Compensation
- Automatic Daylight Savings Time Compensation – User programmable.
- Unit to Unit Data/Time/Date or Time/Date Transfer
- 2 Line x 16 Character Backlit Liquid Crystal with Automatic Contrast Adjustment
- Audible Beeper for Status Indication During Programming
- 120VAC or 12VDC Operating Power

**Radar Construction****Radar Frame:**

- Frame construction: Aluminum .080, 3003 alloy
- Length: 21"
- Height: 19½"
- Depth: 6"
- Mounting Brackets: Constructed of .125 aluminum
- Viewing Window: .125 thick polycarbonate with UV matte finish

**Paint:**

- Door: Black powder coat paint
- Balance: White powder coat paint
- Salt Spray Fog: 1,000 hours
- UV resistant: 500 hours

**Performance:**

- Accuracy: ±0.1 mph
- Speed Range: 5 mph to 105 mph (also available in KPH)
- Detection Range: Typically 500+ feet detecting compact cars, longer with larger vehicles

**Optical:**

- Size: Full 10" characters
- Typical Pixel intensity: 21.0 cd
- Minimum Pixel intensity: 14.4 cd
- Viewing Angle: 30 Degrees

**Automatic Light Sensor:**

- Operational: 15 level weather resistant photocell

**Optional:**

- Radar Sizes: Upgrade to 14", 16", 18" or 26" characters