



Solar Powered LED Traffic Signal Blinker Arrow Type

BENEFITS

- No Trenching or Underground Wiring Involved
- Maintenance Free Operation
- Proven High Efficiency and Reliability
- Low Installation Cost
- No Damage to the Surrounding Environment
- Vandal and Theft Resistant
- Hardware & Components
- Pay No Utility Bills.

Applications

- | | |
|----------------------------|---|
| 1. School Zones | 4. Hospitals Pedestrian Crossings |
| 2. Sharp Curves | 5. Emergency Vehicle Zones |
| 3. Dangerous Intersections | 6. Diversions during road construction. |

Two models are available

I.12 Hrs operating and II.24 Hrs Operating mode.

Over Head Lane Signal

ECE India make Over head lane signal Aspects of Impact resistance, U-V stabilized, fast dyed, unbreakable, rust and rain proof made of anti corrosive powder coated, single wall construction and textured non reflective front surface, sun visors, and LED based lamps for giving balanced light output intensity, within specified limits and with 400/300 mm diameter clear Polycarbonate lens and with necessary mounting arrangements.

Specifications of LED aspects Over head lane signal RED Cross LED ASPECT

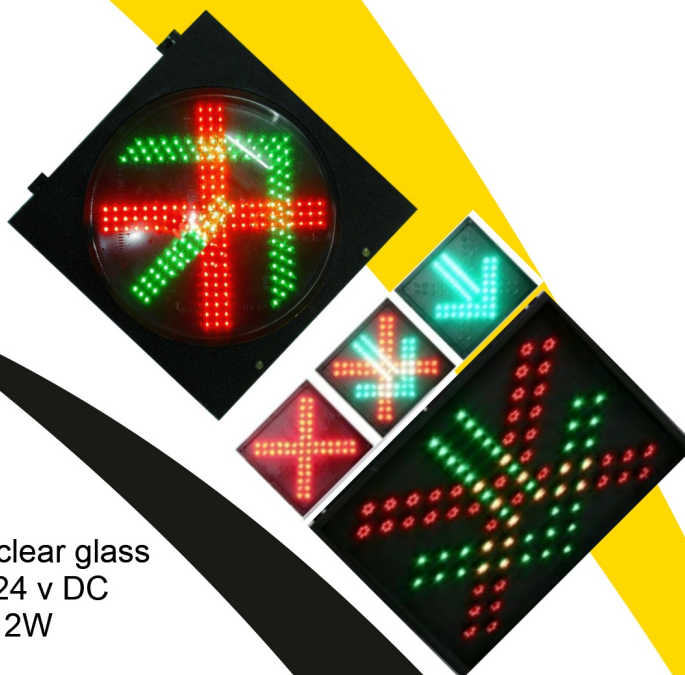
Led Viewing Angle -	23°
Led Forward Current -	20mA
Intensity of LED Aspect -	300Cd (Minimum)
LED TYPE	5 mm ultra Bright clear glass
Working Voltage -	230 V Ac/ 12 OR 24 v DC
Total Power Consumption -	Maximum 12W

Over head lane signal GREEN Arrow LED ASPECT

Led Viewing Angle -	23°
Led Forward Current -	20mA
Intensity of LED Aspect -	300Cd (Minimum)
LED TYPE	5 mm ultra Bright clear glass
Working Voltage -	230 V Ac/ 12 OR 24 v DC
Total Power Consumption -	Maximum 10W

General Specification.:

- i. Input Voltage : 170V AC - 260 V AC or 24V DC
- ii. Protection : Fire Retardant, Glass Epoxy, FR4 Printed Circuit Board With protective cover and plain Polycarbonate Lens.
- iii. Surge Protection : Built in regulated Power supply with surge suppressor & over current/ 11over voltage protection
- iv. Protection : Reverse / Over voltage Protection for LED Chains Operating
- v. Temperature : 0°C TO 55°C



Solar Powered LED Traffic Signal Blinkers Light Ball Type

OPERATION

Solar Blinker operates on Solar energy and works for safety of vehicles at road crossing ,pedestrian crossing ,sharp Curves at diversion during road construction etc...

BENEFITS

No Trenching or Underground Wiring Involved
Maintenance Free Operation
Proven High Efficiency and Reliability
Low Installation Cost
No Damage to the Surrounding Environment
Vandal and Theft Resistant Hardware & Components
Pay No Utility Bills.

Applications

School Zones, Hospitals, Pedestrian Crossings, Sharp Curves, Emergency Vehicle Zones, Dangerous Intersections, Diversions during road construction.



Product Code

ECE - SBLMS - 01

LED Light	300 mm Dia Display with Ultra Bright LED 5 mm with 100000 Hrs life , No chain missing, One LED off at a time Glass Epoxy ,Fr4 Printed Circuit, Conformal Coating Board With protective cover and plain polycarbonate lens
Charge Controller	Microcontroller Based fully digital Charge controller up to 6 A, Built in Regulated Power supply with surge suppressor & over current / over voltage Protection. Over voltage/ Deep Discharge Protection for Battery. Same Ckt can work for 12 hrs or for 24 hrs just with one switch.
Battery	18 AH 12 V Sealed Maintenance Free Battery (Make : Amaron , Excide , Power zone , Microtek , Rocket equivalent)
Solar Panel	37 WP 12 V IEC approved
Light Enclosure Pole	300 mm dia MS housing, Powder Coated, Water Proof, Dust Proof. IP 65 Grade MS Pole with 50 mm Dia, 5 Mtr Height with Powder Coated Colour with Adjustable Solar frame.
Operating Temp	0°C to 55°C
Humidity	95 % at 40°C (Non Condensing)
Lamp Head	LED MS Aspects RED / Amber Colour.



ISO 9001 : 2008

ECE (India) Energies Pvt. Ltd.
MNRE Channel Partner

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Solar Operated Lighted Bollard

Solar Operated Lighted Bollard is available in bright colors, various sizes and shapes. These are exclusively designed for road safety and developed using supreme quality raw material.



Some of the salient features are as follows

- High performance
- Long lasting
- Heat resistance
- Corrosion resistance
- Water proof
- Super bright LEDs, Auto ON-OFF.
- Full charged power to last 3 nights.

Technical Specification

Light	: Solar Operated Blinking Light
Color	: Single color (Red / Green/ Blue/ Amber/ White)
Battery	: 1.2V 2100mA Ni-MH rechargeable
Flash Frequency	: 74±5 times/min
Material	: MS tubular Pole with 50-65 mm dia.
Finish	: Powder Coated
Colour of Pole	: Black , Yellow , Silver, Red
Size	: 1 Mtr height
Purpose	: Curves, Sharp turn, Median
Battery Backup	: 72 Hours
Warranty	: 6 months
The warning distance is >500m	

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LED Traffic Light Ball Type

Features

ENERGY SAVING UPTO 90%

The LED Technology is tremendously energy efficient comparing to incandescent light bulbs , up to 90% power saving.

PRECISION OPTICAL LENCE

With our advanced optical design, the light output is redirected to motorists on the streets. It helps lowering to power consumption while meeting the luminous intensity standard.

HIGH BRIGHTNESS HIGH CONTRASS

LED Signals are high in brightness, Showing pure color and consistent throughout the entire module area. They provide better visibility even in direct sunlight.

LONG LIFETIME

The LED Light has years of lifetime expectancy of continues use.

VIRTUALLY MAINTANANCE FREE

The long life features also make the LED lighting virtually maintenance free, And much more cost - effective investment than incandescent lights.

ECO-FRIENDLY SOLAR POWER SYSTEM

Eco-Friendly solar power system independent of grid power.

WEATHERPROOF

DESIGNS ARE TESTED AT OUR LABORATORY.

Product Code	ECE – TL – 3R
LED Light -	300 mm Dia Display with Ultra Bright LED 5 mm with 100000 Hrs life , No chain missing , One LED off at a time Glass Epoxy ,Fr4 Printed Circuit, Conformal Coating Board With protective cover and plain polycarbonate lens
Power Supply	Solid State Power Supply with constant current
Operating Voltage :-	230 V Ac / 12 V DC
No of LED :-	190/177/66/48
LED forward Current :-	20 mA
Light Enclosure :-	MS IP 65 Grade
Intensity :-	400 cd
Operating Temp :-	0°C to 55°C
Humidity :-	95 % at 40°C (Non Condensing)
Power Consumption:-	6 W

F-27, MIDC Road , Express Highway, Amravati. Phone No - 0721 2520922 Web: www.eceindia.com email: info@eceindia.com

Ho.- Swastik sankul, Nawathe square, Badnera road, Amravati-444607 (M.H.) Phone No : - +91 7774092701 Web www.eceindia.com email : info@eceindia.com

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Solar Road Stud



Solar Road Stud (Central Line Purpose)
Our diverse assortment of Solar Road Stud is available in bright colors, various sizes and shapes. These are exclusively designed for road safety and developed using supreme quality raw material.

Some of the salient features are as follows

High performance
Long lasting
Heat resistance
Corrosion resistance
Water proof

Technical Specification

Solar Cell	: 3 V Mono Crystalline
Light Source	: Super Bright 05 MM LED
No. of LED	: 6 Nos.
Directional	: Bi-Directional
Battery	: 1600 MAh
Material	: Aluminum Alloy & High Impact Resistant Polycarbonate with MS Base plate
Work Temperature	: 10Deg to 55 Deg
Working Time	: 80-90 Hrs after full charging.
Enclosure Grade	: IP 65
Viewing Distance	: 850 mtr
Warranty	: 12 Months
Colour	: Red / Amber
Dimension	: 112 mm (dia.) X 15 mm (Height)
Flashing Rate	: 90-120 flashes per min.
Share load	: 40 Ton
Weight	: 750 gm



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Catalogue of Count down Timers



ECE India make Count Down Timers Aspects of Impact resistance, U-V stabilized, fast dyed, tough made up of High Efficiency Polycarbonate textured non reflective front surface, sun visors, and LED Lights for giving balanced light output intensity.

BENEFITS

- LED for Low power consumption
- Maintenance Free Operation
- Proven High Efficiency and Reliability
- Low Installation Cost
- No Damage to the Surrounding Environment
- Vandal and Theft Resistant

Technical Specifications

Size	:	7 Inch Height Digit
CPU	:	Microcontroller
Input Signal	:	Lamp Drive Input
Display Type	:	2 digit
Display Color	:	Red
Working Volt.:	:	230 V AC/ 24 /12 V DC
Cabinet	:	Poly Carbonate

Note: - Material Can be Modified as Per Customer Specifications



The Solar Powered Traffic Signal Blinkers are manufactured by using superior quality raw material & are known for their uninterrupted operations and self generated power.

The whole assembly includes **Solar Panel, Frame for Solar Panel, Traffic Signal Blinker, Wire Harness, Charge Controller, Battery, Battery Box, Signal Pole** etc. Once installed Solar Traffic warning Blinker lasts for many years. These blinkers are available for Dusk to Dawn operation or 24 hours operation.

SR NO.	SPECIFICATION	DETAILS
1	Blinker Size	300mm (12 Inch) & 200mm (8 Inch)
2	Body	Molded Polycarbonate, Suitable for extreme weather conditions
3	Lens	U.V. Stabilized, Transparent Polycarbonate
4	Gasket	Rubber Gasket for Sealing between Lens & Signal Unit
5	Color	Red / Amber / Green
6	PCB Used	1.5 mm thick, Glass Epoxy for Power Supply / LED Display
7	LED Used	Ultra Bright, Water clear
8	Viewing Angle	24 Degree for LED's
9	No of LEDs	176 LED (300 mm) 140 LED (300 mm) (Power Saver Model) 96 LED (200 mm)
10	Charge Control Unit (CCU)	Built In Type, helps to protect battery from deep discharging as well as overcharging. Also protect Panel from Reverse Voltage.
11	Solar Panel	12 Volt, Wattage as per requirement
12	Battery	(SMF) Sealed Maintenance Free Type
13	Wire Harness	For making all connections easily and correctly
14	Clamps	For Mounting traffic signal, battery box & solar panel
15	Pole	Dia. 3" or 4", Height 4 to 6 mt., GI or MS
16	Working Voltage	12v DC
17	Power Supply	Total Solid State electronic Circuitry
18	Frequency	30 to 40 Flashes Per Minute as desired.
19	Operation	24 Hours or 12 Hours (Dusk to Dawn)
20	Control Card	In built & Solid State
21	Power Factor	>0.9
22	Visibility	500 Mts., Good even during bad Weather
23	Certification	IP 65, ISO 9001 : 2008