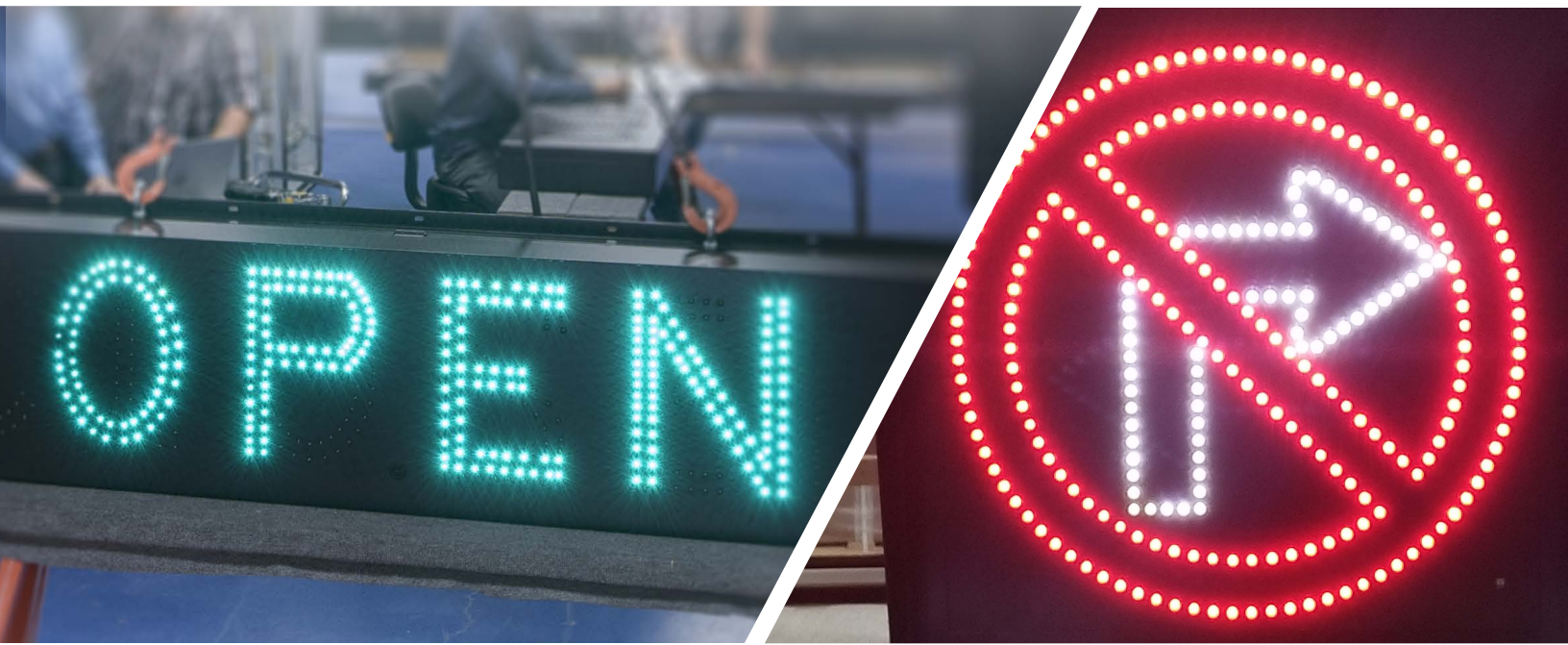




*Standard & Custom Blank Out Signs*



## Blank Out Signs

- MUTCD 1-Phase
- MUTCD Multi-Phase
- Custom
- Lane Control

# Why Blank Out Signs?



Blank Out Signs (BOS) are the best possible type of sign to convey simple messages to all drivers. They are designed to be very easy to use. The display has only two options: Message ON or Message OFF with several brightness levels. They are ideal to indicate traffic patterns, to alert danger, and to convey specific instructions to drivers.

Blank Out Signs improve traffic safety. Studies demonstrate that traffic safety is highly improved when BOS are used for pedestrian awareness, rail crossing, dangerous curve signalization, flood warning systems, weigh station driving instructions, etc.

## SES America Blank Out Signs offering:

SESA offers several BOS families. You can choose the best products for your need. They are all described in this catalog and they all have common features.

## Why Us

**Personalized Customer Care:** A team of at least one account manager and one technician is dedicated to

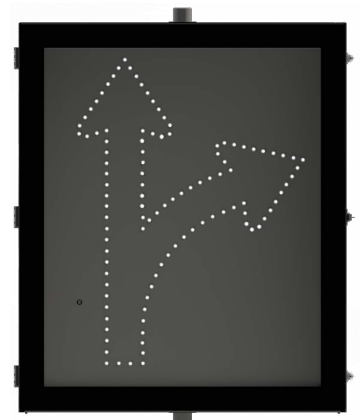
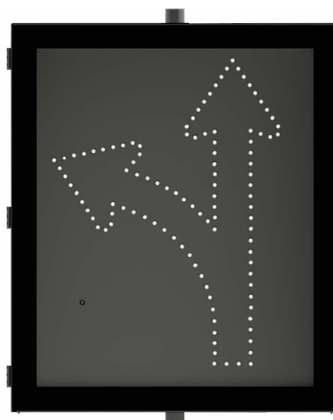
your project, providing answers within 24 hours. You can call your technician directly on his cell phone and you have his direct e-mail address. We maintain a large, ready-to-ship spare parts inventory so you do not need to wait to receive the part you need.

**Need-based Customization:** We sell solutions. Our teams are ready to study your specific needs and develop whatever is needed to fill them.

**Industry Leading Energy Efficiency:** Power consumption of our signs is 30% less than the industry average and we offer a range of solar solutions.

**Innovative and Progressive Technology:** Our products are always based on cutting edge technology. We offer numerous features and benefits that are unique to our industry.

**Testing for Quality:** We focus not only on product quality, but also on exemplary service. Whether a new product or spare part all our products are fully factory tested.





## Manufacturing Process & Project Delivery

- In-house research and development resources that include electrical engineering, electronic development, mechanical design, and software/firmware development.
- Highly-qualified technicians, engineers and assembly personnel who undergo constant evaluation and training.
- Dedicated on-site support, remote support and fully certified agency maintenance personnel.
- State-of-the-art equipment utilized in the manufacturing of housings and components.
- Large spare parts inventory kept in RI warehouse; most parts ship within 48 hours.
- Extensive warranties available from 12 to 60 months.
- Products are supported years after deployment.

## Our Mobility Solutions At A Glance



All signs can be configured to be solar powered. On average, our products are **30% more energy efficient** than the industry standard



From Alaska to Florida, **our signs can withstand multiple climates** and harsh environments



**SESA has more than 2000** signs currently in service across the U.S. & Canada





# Robust, Elegant and Efficient Design

## Specifications

SESA manufactures its BOS with the same technology used for large Dynamic Message Signs.

- Robust NEMA 4 Aluminum Enclosure
- All surfaces are black matte powder coated AAMA2604
- Foam gasket
- Pre-drilled and equipped with Pelco type hubs for standard and easy mounting options
- Polycarbonate face: matte, non-reflective and UV rated
- Black Internal LED panel for excellent contrast and improved visibility
- 6" visor
- Polycarbonate front face can be avoided to reduce cost
- 3 standard mounting options
- Other mounting options can be designed for a specific application
- All parts are UL approved and tested as per NEMA TS4
- 30 degrees LEDs as per NEMA TS4 standard
- All PCB are conformal coated
- All signs are equipped with a photo sensor and a micro-controller to automatically adjust brightness level (*factory programmable*)
- Din Rail power supplies







## Solar Option

Most Blank Out Signs can be powered by a solar system so you can install your sign anywhere even in a very remote rural area or in the mountains.

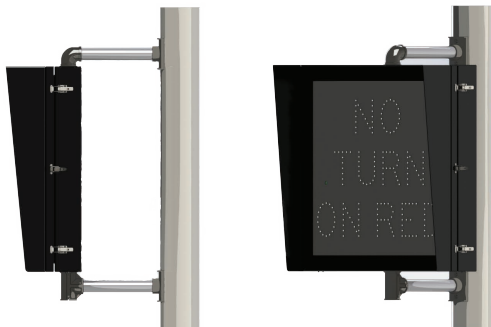
With the help of our low energy consumption we can fully power our signs using full time 100% reliable solar power:

- 24/7 Operation regardless of harsh weather conditions
- Quickly executed installations for minimal civil works
- Free in-house solar power system design  
*(SESA engineer will design it for you)*



## Three Standard Mounting Options

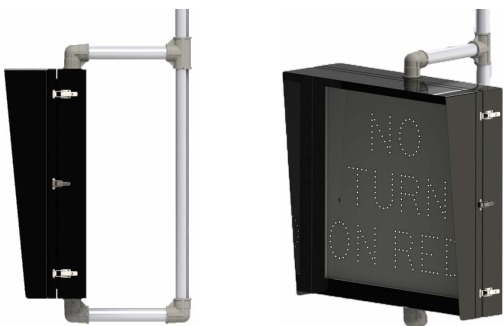
### Side Pole Mount



For signs under 100lbs  
1-Way Upper and Lower ICC Side Pole Assembly with 12" threaded pipe, and Universal Pole Hub plates.

**Product ID:** 0115050006

### Mast Arm Mount



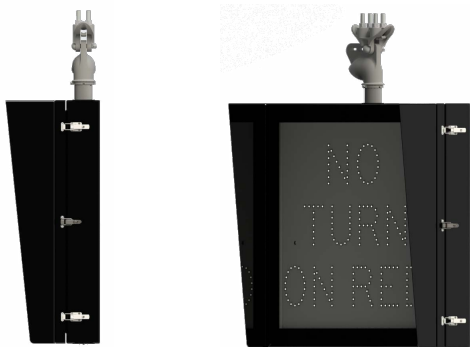
For signs under 30" in height  
1-1/2" NPS Nipple, Elbow, and Tee,  
with 1-1/2" X 37" Long Gusseted Tube.

**Product ID:** 0115050004

For signs between 30" to 40" height  
1-1/2" NPS Nipple, Elbow, and Tee,  
with 1-1/2" X 46" Long Gusseted Tube.

**Product ID:** 0115050005

### Span Wire Hanger Mount



For signs under 100lbs  
1-1/2" NPS Span Wire Hanger Assembly.

**Product ID:** 6150025

## CUSTOM MOUNTING

Contact SESA to look for a mounting solution that satisfies your needs.

# Standard MUTCD BOS:

This BOS family features a unique symbol or text fully compliant with MUTCD standards. The symbol size matches the recommended MUTCD size. For example for a 30"x30" symbol the housing will be 32"x32" to guarantee full MUTCD compliancy. You will find samples of standard BOS in the next pages and do not forget we can always design a new sign for you with another symbol.

## Applications:



Toll Systems



Tunnel



Bridge



Traffic Calming



### Left Turn ONLY

Symbol: R3-5L  
LED Colors: ☐

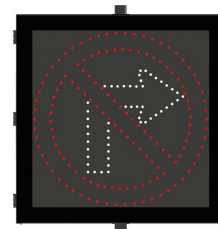
Size: 30"x24" ID: 100804  
Size: 36"x30" ID: 100806



### Yield to Peds (L)

Symbol: R1-5L  
LED Colors: ☐ ☐

Size 1: 30"x30" ID: 100102  
Size 2: 36"x36" ID: 100103



### Yield to Peds (R)

Symbol: R3-1  
LED Colors: ☐ ☐

Size 1: 24"x24" ID: 100301  
Size 2: 30"x30" ID: 100302  
Size 3: 36"x36" ID: 100303



### Right Turn ONLY

Symbol: R3-5R  
LED Colors: ☐

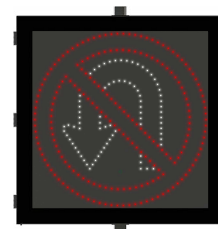
Size: 30"x24" ID: 100904  
Size: 36"x30" ID: 100906



### Yield to Peds (R)

Symbol: R1-5R  
LED Colors: ☐ ☐

Size 1: 30"x30" ID: 100202  
Size 2: 36"x36" ID: 100203



### No U-Turn

Symbol: R3-4  
LED Colors: ☐ ☐

Size 1: 24"x24" ID: 100601  
Size 2: 30"x30" ID: 100602  
Size 3: 36"x36" ID: 100603



### Straight ONLY

Symbol: R3-5a  
LED Colors: ☐

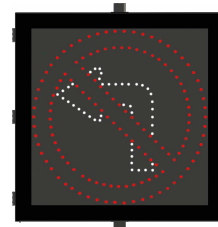
Size: 30"x24" ID: 100704  
Size: 36"x30" ID: 100706



### NO TURNS

Symbol: R3-3  
LED Colors: ☐

Size 1: 24"x24" ID: 100501  
Size 2: 30"x30" ID: 100502  
Size 3: 36"x36" ID: 100503



### No Left Turn

Symbol: R3-2  
LED Colors: ☐ ☐

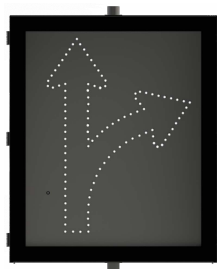
Size 1: 24"x24" ID: 100401  
Size 2: 30"x30" ID: 100402  
Size 3: 36"x36" ID: 100403



### Left and Straight Arrow

Symbol: R3-6L  
LED Colors: ☐

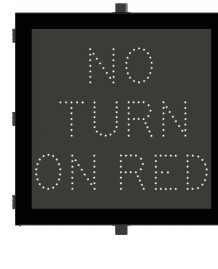
Size: 30"x24" ID: 101004  
Size: 36"x30" ID: 101006



### Right and Straight Arrow

Symbol: R3-6R  
LED Colors: ☐

Size: 30"x24" ID: 101104  
Size: 36"x30" ID: 101106



### NO TURN ON RED

Symbol: R10-11b  
LED Colors: ☐

Size 1: 24"x24" ID: 101301  
Size 2: 30"x30" ID: 101302  
Size 3: 36"x36" ID: 101303



## HOW DO I ASK FOR A QUOTE OR PLACE AN ORDER?

Placing an order with SESA is easy. Select your model ID indicated near the sign symbol, Select your mounting option (ID near the mounting option on page #4) and that's all. *If you do not want visor just mention 'no visor' or 'no polycarbonate face'*

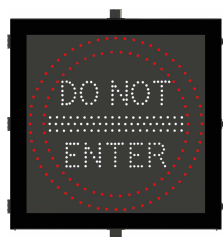
Pedestrian Crossing

 Lane Management

 Intersections

 Railroads

& more!



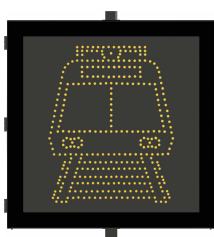
### DO NOT ENTER

Symbol: R5-1

LED Colors:  

Size 1: 30"x30" ID: 101202

Size 2: 36"x36" ID: 101203



### Train Symbol

Symbol: W10-7

LED Colors: 

Size 1: 24"x24" ID: 101401

Size 2: 30"x30" ID: 101402

## Features:

- MUTCD compliant symbols ( size, shape and color)
- Power : 120 V
- Operating Temperature: -30°F to +165°F (-34°C to +74°C)
- Humidity: 0% to 99% noncondensing
- Standard control: dry contact

## Other Options:

- With Visor (6" Width)
- Without Visor
- Without Polycarbonate

## Upgrades:

- Solar with 24 VDC batteries

## Control Options:

- Wet Contact
- Wireless Radio
- Customizable Activation

## Mounting Options:

- Mast Arm
- Side Pole
- Span Wire Hanger





# Standard Multi-Phase MUTCD BOS:

This BOS family is very popular because it provides a lot of possibilities at a very affordable cost. It features at least TWO MUTCD standard symbols and is of the same size as a regular MUTCD BOS. All symbols can be controlled separately and they light separately. SESA's design allows LED sharing between symbols when possible in order to reduce the cost and improve symbol visibility.

## Applications:



Toll Systems



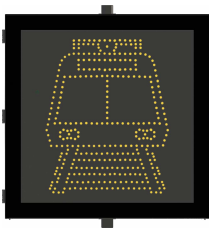
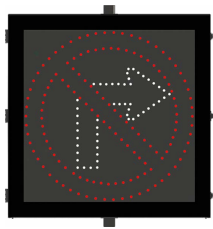
Tunnel



Bridge



Traffic Calming



### 2 Phase No Right Turn & Train Symbol

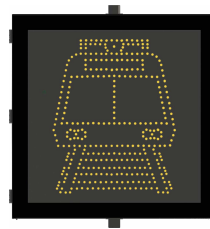
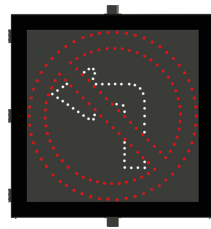
Symbol 1: R3-1

LED Colors: ■ □

Symbol 2: W10-7

LED Colors: ■

Size: 30"x30" ID: 200102



### 2 Phase: No Left Turn & Train Symbol

Symbol 1: R3-2

LED Colors: ■ □

Symbol 2: W10-7

LED Colors: ■

Size: 30"x30" ID: 200202



### 2 Phase: Straight ONLY & Straight and Left Arrow

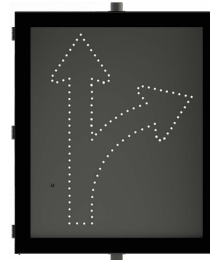
Symbol 1: R3-5a

LED Colors: □

Symbol 2: R3-6L

LED Colors: □

Size: 36"x30" ID: 200306



### 2 Phase: Straight ONLY & Straight and Right Arrow

Symbol 1: R3-5a

LED Colors: □

Symbol 2: R3-6R

LED Colors: □

Size: 36"x30" ID: 200406



### 2 Phase: Straight ONLY & Left Turn ONLY

Symbol 1: R3-5a

LED Colors: □

Symbol 2: R3-5L

LED Colors: □

Size: 36"x30" ID: 200506



### 2 Phase: Straight ONLY & Right Turn ONLY

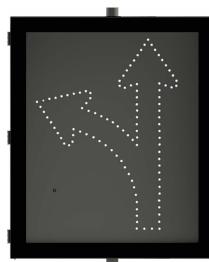
Symbol 1: R3-5a

LED Colors: □

Symbol 2: R3-5R

LED Colors: □

Size: 36"x30" ID: 200606



### 2 Phase: Left Turn ONLY & Straight and Left Arrow

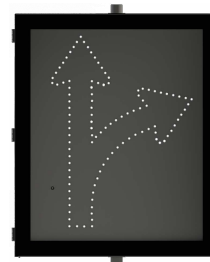
Symbol 1: R3-5L

LED Colors: □

Symbol 2: R3-6L

LED Colors: □

Size: 36"x30" ID: 200706



### 2 Phase: Right Turn ONLY & Straight and Right Arrow

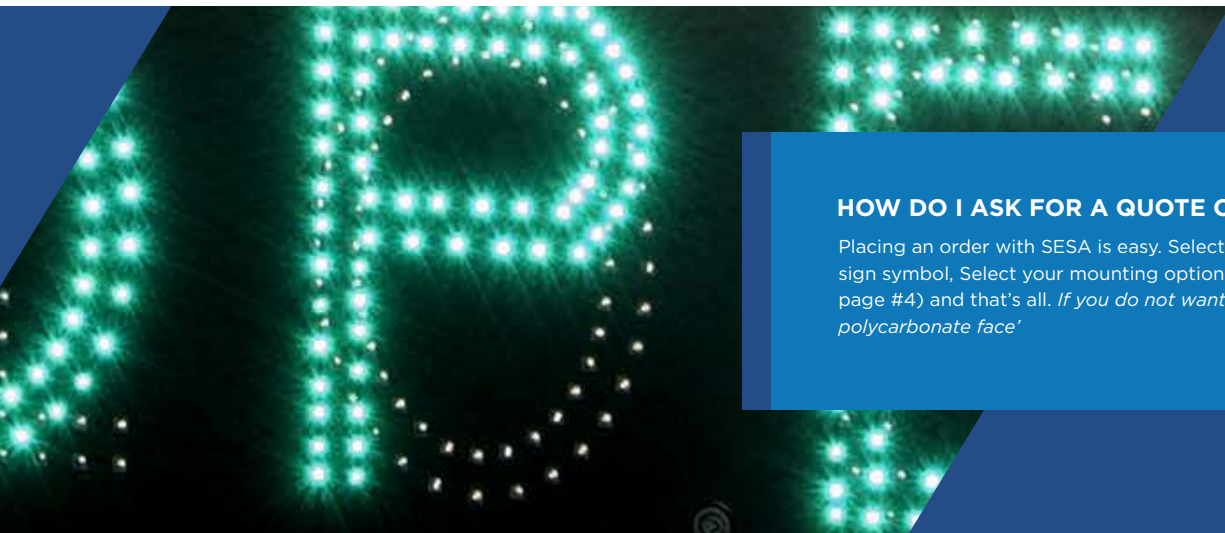
Symbol 1: R3-5R

LED Colors: □

Symbol 2: R3-6R

LED Colors: □

Size: 36"x30" ID: 200806



## HOW DO I ASK FOR A QUOTE OR PLACE AN ORDER?

Placing an order with SESA is easy. Select your model ID indicated near the sign symbol, Select your mounting option (ID near the mounting option with page #4) and that's all. *If you do not want visor just mention 'no visor' or 'no polycarbonate face'*

Pedestrian Crossing

 Lane Management

 Intersections

 Railroads

& more!

### Features:

- MUTCD compliant symbols ( size, shape and color)
- Power : 120 V
- Operating Temperature: -30°F to +165°F (-34°C to +74°C)
- Humidity: 0% to 99% non-condensing
- Standard control: dry contact

### Control Options:

- Wet Contacts
- Wireless Radio
- Customizable Activation

### Mounting Options:

- Mast Arm
- Side Pole
- Span Wire Hanger

### Other Options:

- With Visor (6" Width)
- Without Visor
- Without Polycarbonate

### Upgrades:

- Solar with 24 VDC batteries



# Custom Blank Out Signs

SESA design capacity at its best to fit your need! We can create any symbol at any size and we can also combine them in a unique enclosure. Imagine any text of any size in Red, Green, White or Amber combined with symbols on a 15 " by 5" sign, let us know and we will design it for you. SESA uses its extensive DMS know-how to build large robust enclosures. Main applications are weigh station, bridge or tunnel traffic management but there are many others.

## Applications:



Toll Systems



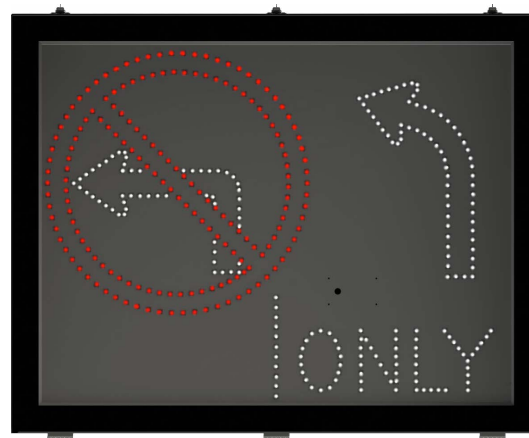
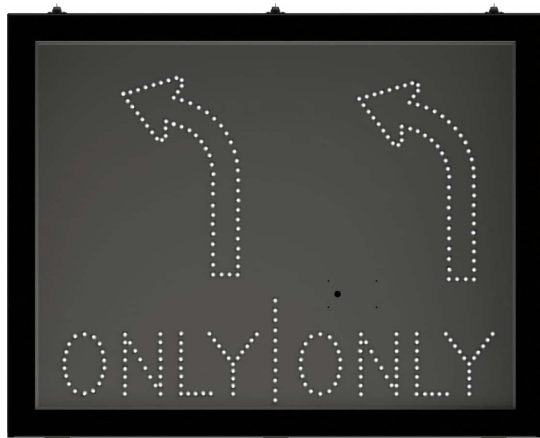
Tunnel



Bridge



Flood Warning



### 2 Phase: Custom R3-2 and R3-5L & Dual R3-5L

LED Colors: ■ □

Size: 34"x43"

ID: 301225



### 2 Phase: 55/65

LED Colors: □

Size: 24"x36"

ID: 301124



### FROM LEFT

LED Colors: ■

Size: 24"x30"

Text Height: 5"

Letters: Single Stroke

ID: 301023



### NO RIGHT TURN ON RED

LED Colors: □

Size: 38"x32"

ID: 300506



### NO TURN ON RED

Symbol: R10-11a

LED Colors: □

Size: 38"x32"

ID: 300606



### FROM RIGHT

LED Colors: ■

Size: 24"x30"

Text Height: 5"

Letters: Single Stroke

ID: 300923



## HOW DO I ASK FOR A QUOTE OR PLACE AN ORDER?

Placing an order with SESA is easy. Select your model ID indicated near the sign symbol, Select your mounting option (ID near the mounting option on page #4) and that's all. *If you do not want visor just mention 'no visor' or 'no polycarbonate face'*

Pedestrian Crossing



Weigh Stations



Intersections



Railroads

& more!



### Custom R3-1 & TRAIN

LED Colors: ☒ ☐

Size: 30"x24"

ID: 300104



### Custom R3-2 & TRAIN

LED Colors: ☒ ☐

Size: 30"x24"

ID: 300204



### STOP HERE FOR TRAIN (L)

LED Colors: ☐

Size: 36"x24"

ID: 300305



### STOP HERE FOR TRAIN (R)

LED Colors: ☐

Size: 36"x24"

ID: 300405

## Features:

- Text size: from 6" to 18"
- Single or double stroke font
- Any symbols or combination of text and symbols
- Colors: Red, Green, White, Amber
- Ultra bright LED with 30 degree cone of vision
- Control by dry contact
- Mounting: rear mounting with Z-bars or other system upon request
- Power: 120 V AC

## Upgrades:

- Solar with 24 VDC batteries

## Control Options:

- Wet Contact
- Wireless Radio
- Customizable Activation

## Other Options:

- With Visor
- Without Visor

# Custom Blank Out Signs

## Applications:



Toll Systems



Tunnel



Bridge

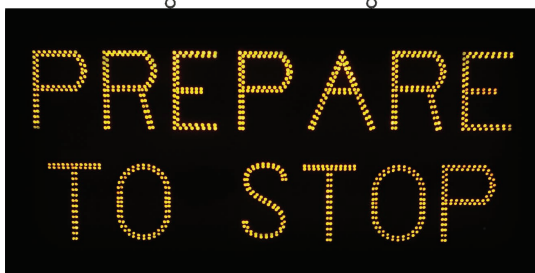


Flood Warning



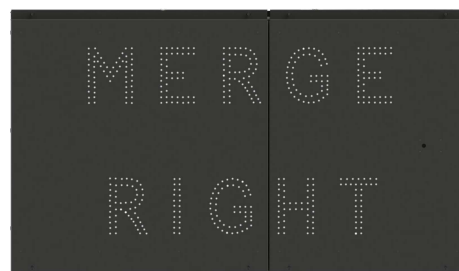
### 2 Phase: WATER OVER ROAD/ ROAD CLOSED

LED Colors: ■  
Text Height: 8"  
Letters: Single Stroke  
Size: 42"x54"  
ID: 300721



### PREPARE TO STOP

LED Colors: ■  
Text height: 14"  
Letters: double Stroke  
Size : 48"x96"  
ID: 300822



### MERGE RIGHT

LED Colors: □  
Text Height: 12"  
Letters: Double Stroke  
Size: 48"x84"  
ID: 301730



### 2 Phase: OPEN/CLOSED

LED Colors: ■ ■  
Text Height: 18"  
Letters: Single Stroke  
Size: 24"x95"  
ID: 301427



### 2 Phase: OPEN/CLOSED

LED Colors: ■ ■  
Text Height: 16"  
Letters: Double Stroke  
Size: 21"x65"  
ID: 301326



## HOW DO I ASK FOR A QUOTE OR PLACE AN ORDER?

Placing an order with SESA is easy. Select your model ID indicated near the sign symbol, Select your mounting option (ID near the mounting option on page #4) and that's all. *If you do not want visor just mention 'no visor' or 'no polycarbonate face'*

Pedestrian Crossing



Weigh Stations



Intersections



Railroads

& more!

### 4 Phase: LOADED LANE TO LOADED SCALE/ DOOR 1/ DOOR 2/ DOOR 3/

LED Colors:   Text Height: 6" Letters: Single Stroke Size: 24"x102" ID: 301629



### 2 Phase:

**SCALES CLOSED DO NOT ENTER/  
ALL TRUCKS STOP AT SCALES**

LED Colors:  

Text Height: 6"

Letters: Double Stroke

Size: 22"x72"

ID: 301528

### 2 LINES AHEAD MERGE RIGHT

LED Colors:   Text Height: 12" Letters: Double Stroke Size: 70"x174" ID: 301831





# Lane Control Signs

SESA's energy-efficient, highly visible Lane Control Signs are optimized using high performance LEDs, a high contrast front mask, and a specialized electrical design to efficiently reduce energy consumption and minimize long range maintenance costs. A robustly designed, NEMA rated housing and contrast border ensures that each sign meets and exceeds industry standards with clear, legible, and reliable messaging.

## Applications:



Toll Systems



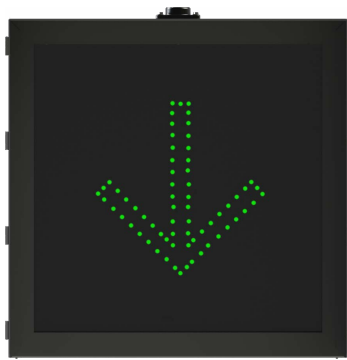
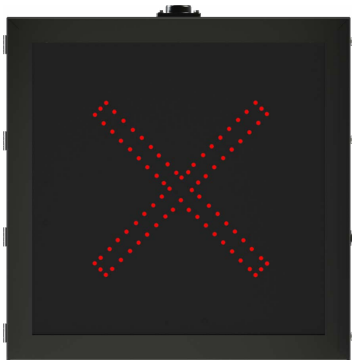
Tunnel






Bridge

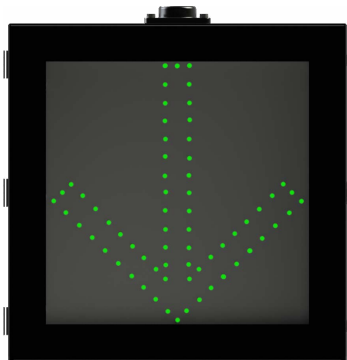
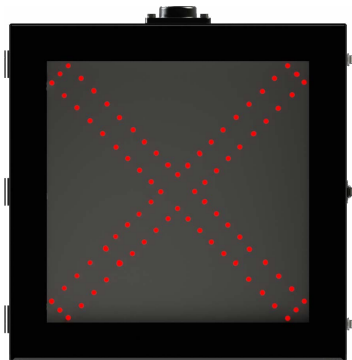


Traffic Calming



### 3 Phase: Dual Display, X, Arrow, Double Arrow

LED Colors:     
Size: 36"X36"  
Symbol height: 18"  
ID: 400132



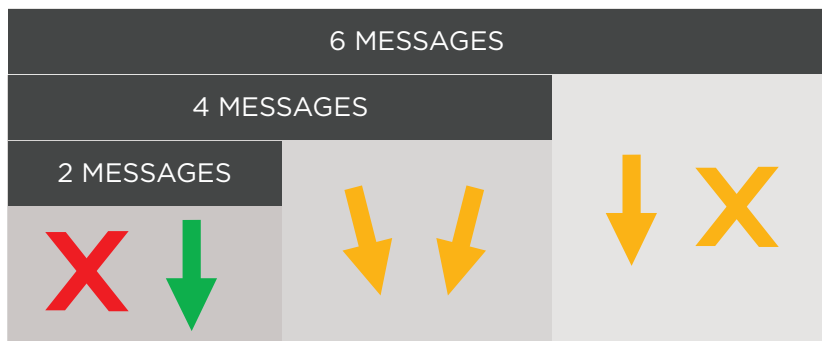
### 2 Phase: Dual Display, X, Arrow

LED Colors:    
Symbol height: 18"  
Size: 24"X24"  
ID: 400233



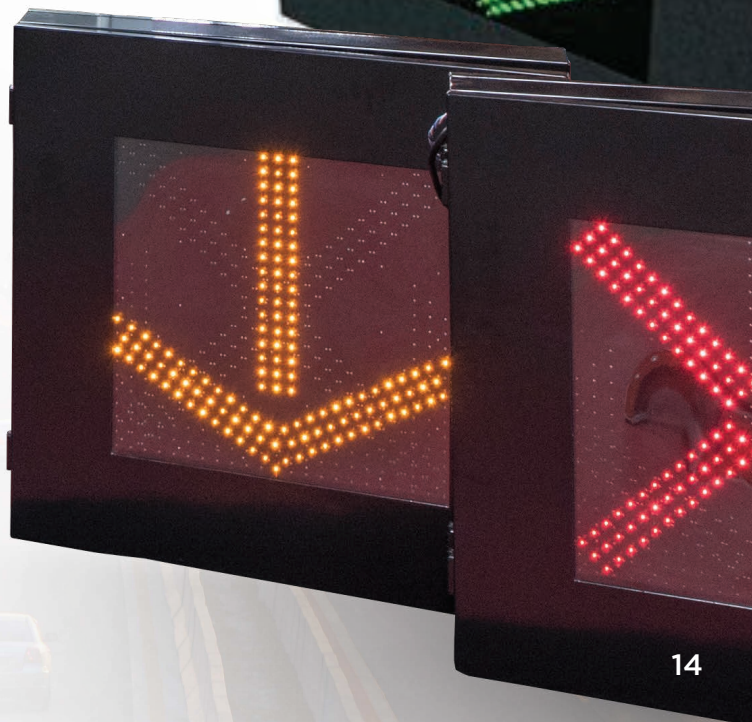
## HOW DO I ASK FOR A QUOTE OR PLACE AN ORDER?

Placing an order with SESA is easy. Select your model ID indicated near the sign symbol, Select your mounting option (ID near the mounting option on page #4) and that's all. *If you do not want visor just mention 'no visor' or 'no polycarbonate face'*



## Features:

- 2 Phase, 4 Phase, 6 Phase, or Full Matrix
- Display Configurations
- Supports 9", 12", or 18" Characters
- Available in MUTCD Compliant Symbols
- NEMA TS4 Compliant
- Simple Dry Contact or Serial Links
- Web-Based Software for Remote Monitoring
- Manage Up to 10 Signs with SCU6 Controller
- NTCIP Compliant & Integration Friendly
- Automatic Brightness Adjustment
- Conflict Monitoring Option



# About SES America

Founded in 1986 in Rhode Island, SESA is a high quality ITS solutions manufacturer committed to delivering innovative products and customized solutions to our clients across the United States. Our expert technicians and engineers work diligently to fill the requirements of any project - whether it is a single sign, a more complex ITS system, or a situational, custom-tailored product. While we are prepared to provide DMS for any project need, our unique technological advantages and modern facilities allow us to **specialize in creating cost-effective, high quality, all sign solutions.**

ITS PRODUCT  
OF THE YEAR  
2014  
FOR  
**SOLAR  
POWERED SIGN**

**BEST**  
MANUFACTURING  
**OVERALL  
EXCELLENCE**  
2015

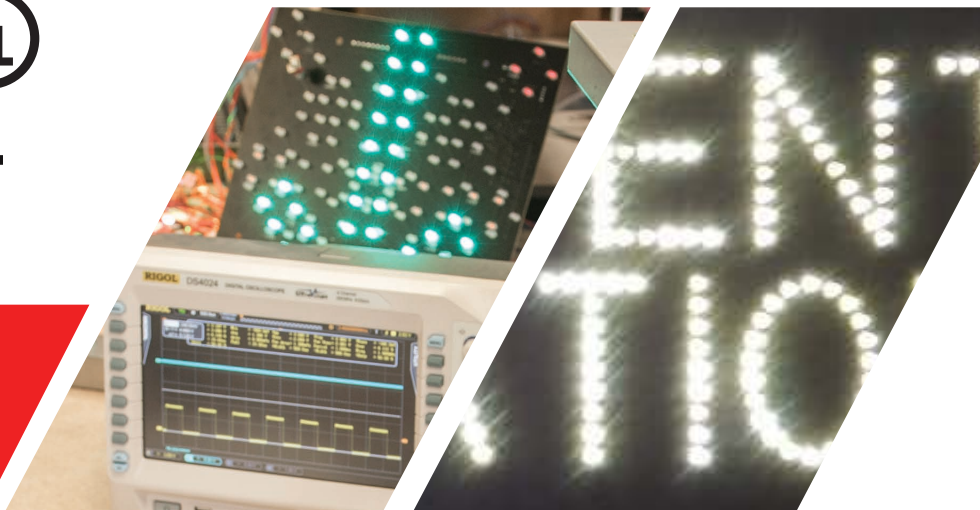
**BEST**  
**PLACE TO  
WORK**  
IN RHODE ISLAND  
2018

## Standards and Quality

Our Intelligent Transportation Systems products are all fully compliant with NTCIP standards. This allows for easy integration with your current signs, software, and systems without the need for additional software, hardware, or extra work. We provide the quality solutions you expect and deserve.



**Contact Us Today  
for a Free Quote!**



**SES America, Inc**  
21 Quinton Street,  
Warwick, RI 02888

**SESAmerica.com • 401.232.3370**