

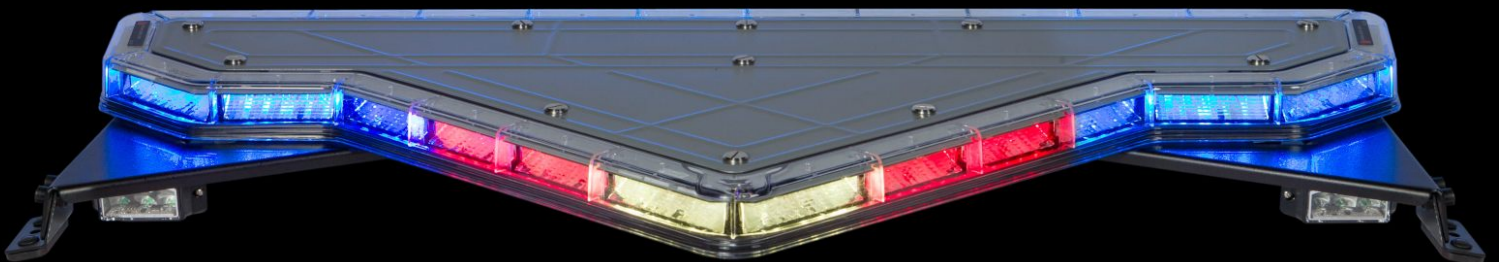


FEDERAL SIGNAL VAMA

Protecting people and our planet

VALOR™

LED lightbar



VALOR™

VALOR™ lightbar is the first and only non-linear, low profile LED lightbar. A lightbar that increases visibility, optimizes performance, and reduces risk to any emergency situation. **SPECTRALUX™** provides a fully programmable range of color combinations for optimum warning capability to flood light performance.



SAFETY AT THE CRITICAL ANGLES: Valor V-shape was engineered to outperform at 45-degree and 90-degree angles, critical for intersection clearing.



LEDs SOLARIS LIGHTS. Solaris LED reflector design to significantly maximize the LED light source for full light coverage.



SPECTRALUX™ MULTICOLOR LED TECHNOLOGY: Provides the ability for a LED light head to change color. LEDs can change between red, blue, amber or white.



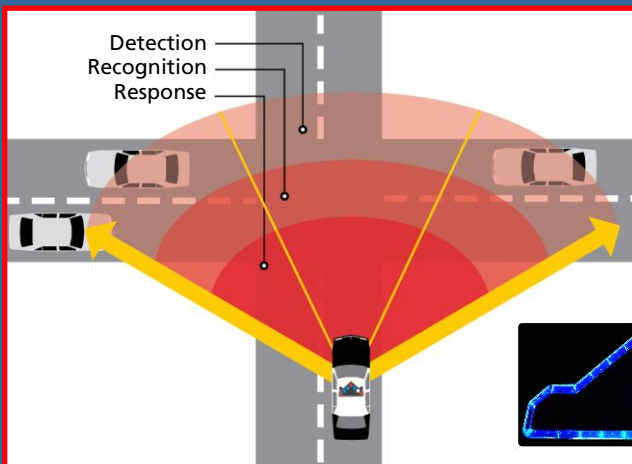
ROC TECHNOLOGY: Lineal circuit board-to-board connection which reduce the number of electrical connections in a lightbar.



UNIQUE DESIGN: Valor lightbar design is FEDERAL SIGNAL use exclusively due to European Union Community Design registration 001925753-0001.



TWO LEVEL LIGHTS: New mounting brackets system allows to install white TAKE DOWNS and ALLEY lights in a second level that do not interfere with the main lights.



The V-shape and low profile design illuminates the critical broader area at 45° and 90° intersection points.

In a moving situation as the emergency vehicle approaches and intersection, its lights and audible devices notify on-coming vehicles through three stages: detection, recognition and response.

Valor series lightbars improve response time in comparison to linear lightbars.

Mounting brackets



The auxiliary lights installed in the mounting brackets allow to have two light levels without any interference with the main lights (sold separately).



Permanent mounting kit.



Hook-on mounting kit.



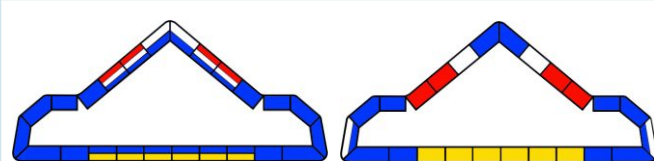
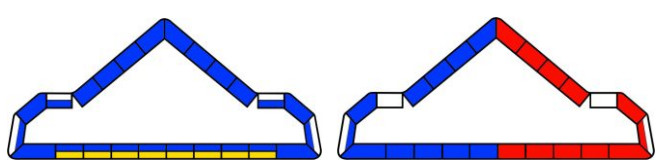
MAIN FEATURES – VALOR

- 1 24 modules of LEDs Solaris with parabolic reflector composed by 3 LEDs (1 colour), 6 LEDs (2 colours) or/and 9 LEDs (3 colours).
- 2 Interfase box (included with the lightbars).
- 3 Connection by 19-ways roof connector.
- 4 Voltage 12V.
- 5 Lightbar control by two systems: CANBUS or ANALOG (switches).

Preselected models: **44" (1100mm)**

Analog control

CANBUS Control



+

Switches

+

Inputs box : 8235978-06



Control Head:

BCT2015-12

or

BCT2021-12



Valor + Interfase

+

Switches

=

Analog System

Valor + Interfase

+

Inputs box

+

Canbus Control Head

=

CANBUS System

VALOR™



Valor lightbar with stop and TAKE DOWNS options.



Valor lightbar with ALLEY LIGHTS options.



Valor lightbar with SignalMaster option.

Testing

| |
|---|
| Vibration test |
| Cold Temperature Exposure Test |
| Durability test |
| Dust Exposure Test, 4,5kg. |
| Federal Signal Reverse Polarity Protection Test |
| IPX9K Protection, high pressure and temperature resistant |

Approvals

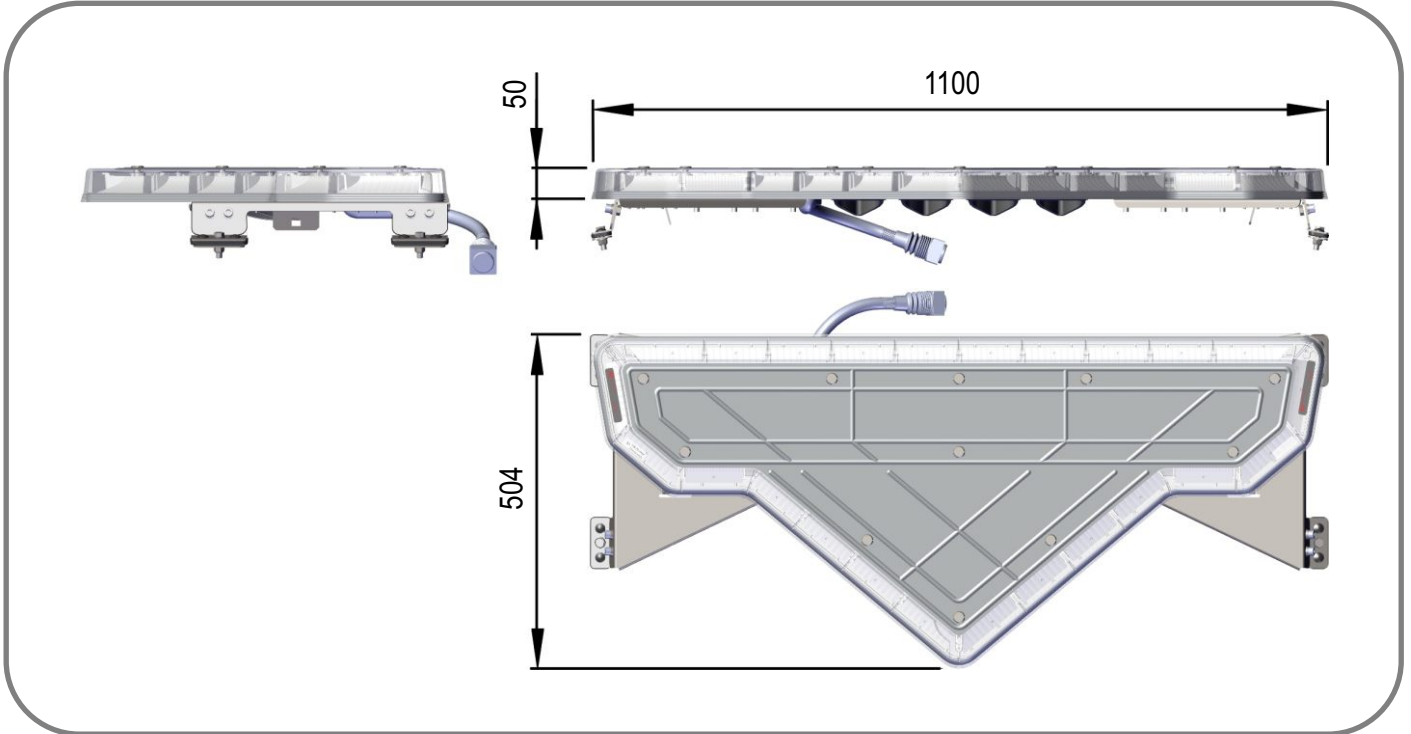
Valor Series (priority lights in blue) comply with R65 Regulations in Class 2.
 Valor Series are according to R10 on Electromagnetic Compatibility.

Technical Specifications

| | | | | | |
|--|---|-------------|-------------------|-------------|-------------|
| Voltage: | 11,5Vdc to 14,5Vdc - Typical: 13,8Vdc | | | | |
| Temperature of use: | -40°C to 65°C | | | | |
| Current draw : | (at 13,8Vdc) Standby mode: 250mA (no lights connected) Steady mode: add 1000mA by module R65 mod: add 300mA by module = 3A, the complete R65 | | | | |
| Light output in candelas: | DAY MODE | | NIGHT MODE | | |
| | Inclination | Min. | Max. | Min. | Max. |
| | 0° | 151 | 473 | 71 | 236 |
| LED colour: | blue, amber, red and white | | | | |
| Technology: | SOLARIS SPECTRALUX | | | | |
| Lens colour: | Clear | | | | |
| Dimensions in mm: | VALR44 - 1110 mm x 50 mm x 504 mm | | | | |
| Weight (without mounting brackets): | 11,6 kgs. | | | | |
| Weight (with mounting brackets): | 16 kgs. | | | | |



Dimensions Valor lightbar - 44" (1100mm) in mm



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HOW TO ORDER

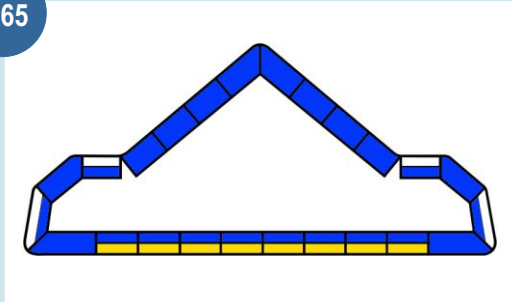
ANALOG control Models (by switches)

Reference

Description

VALR44-2674993E

R65



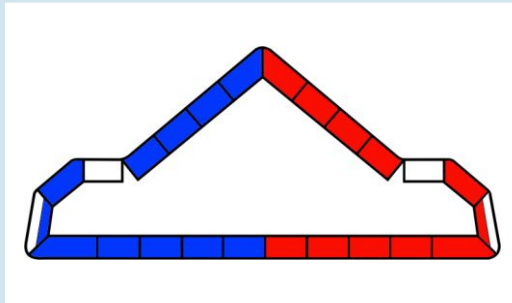
Valor Series Lightbar 44", composed by:

- * Main lights: 24 Blue LEDs Solaris modules
- * Secondary lights:
 - 2 white TAKE DOWN LEDs Solaris modules
 - 2 white ALLEY LIGHTS LEDs Solaris modules
 - 8 amber rear LEDs Solaris modules (Signalmaster function)
- * 19 ways roof connector

Color configuration by module:

- * 12 blue modules
- * 4 blue and white modules
- * 8 blue and amber modules

VALR44-2675002E



Valor Series Lightbar 44", composed by:

- * Main lights: 10 Blue LEDs Solaris modules (left) and 10 Red LEDs Solaris modules (right)
- * Secondary lights:
 - 2 white TAKE DOWN LEDs Solaris modules
 - 2 white ALLEY LIGHTS LEDs Solaris modules
- * 19 ways roof connector

Color configuration by module:

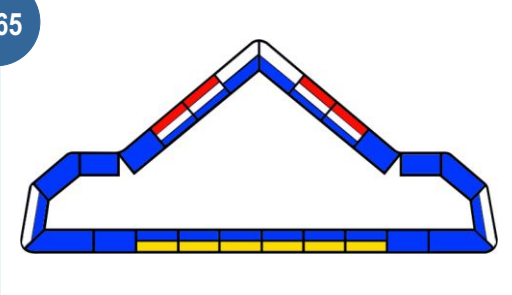
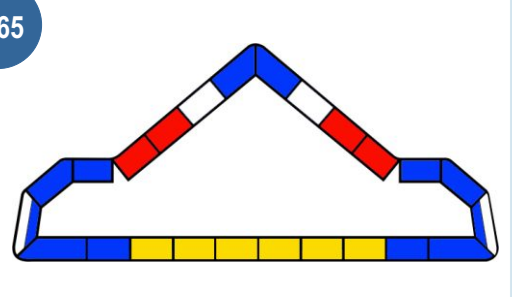
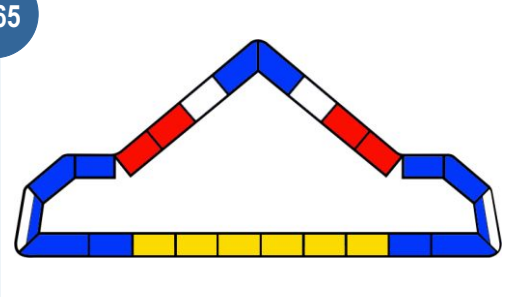

- * 10 blue modules
- * 10 red modules
- * 2 white modules
- * 1 blue and white module
- * 1 red and white module





HOW TO ORDER

CANBUS control Models (Can be ANALOG control by using switches)

| Reference | Description |
|---|--|
| <p>VALR44-2633966E</p> <p>R65</p>  | <p><u>Valor Series Lightbar 44"</u>, composed by:</p> <ul style="list-style-type: none"> * Main lights: 24 Blue LEDs Solaris modules * Secondary lights: <ul style="list-style-type: none"> - 6 white TAKE DOWN LEDs Solaris modules - 2 white ALLEY LIGHTS LEDs Solaris modules - 4 red front LEDs Solaris modules (stop function) - 6 amber LEDs Solaris modules in the rear (Signalmaster function) * Cruise light * 19ways roof connector <p><u>Color configuration by module:</u></p> <ul style="list-style-type: none"> * 10 blue modules * 4 blue and white modules * 6 blue and amber modules * 4 blue, red and white modules |
| <p>VALR44-PL</p> <p>R65</p>  | <p><u>Valor Series Lightbar 44"</u>, composed by:</p> <ul style="list-style-type: none"> * Main lights: 12 Blue LEDs Solaris modules * Secondary lights: <ul style="list-style-type: none"> - 2 white TAKE DOWNS LEDs Solaris modules - 2 white ALLEY LIGHTS LEDs Solaris modules - 4 red front LEDs Solaris modules (stop function) - 6 amber rear LEDs Solaris modules (Signalmaster function) * Cruise light * 19 ways roof connector <p><u>Color configuration by module:</u></p> <ul style="list-style-type: none"> * 10 blue modules * 4 red modules * 2 white modules * 6 amber modules * 2 blue and white modules |
| <p>VALR44-PMM</p> <p>R65</p>   | <p><u>Valor Series Lightbar 44"</u>, composed by:</p> <ul style="list-style-type: none"> * Main lights: 12 Blue LEDs Solaris modules * Secondary lights: <ul style="list-style-type: none"> - 2 white TAKE DOWNS LEDs Solaris modules - 2 white ALLEY LIGHTS LEDs Solaris modules - 4 red front LEDs Solaris modules (stop function) - 6 amber rear LEDs Solaris modules (Signalmaster function) * Cruise light * 19 ways roof connector <p>* Prewired for auxiliary lights on mounting kit (auxiliary lights sold separately)</p> <p><u>Color configuration by module:</u></p> <ul style="list-style-type: none"> * 10 blue modules * 4 red modules * 2 white modules * 6 amber modules * 2 blue and white modules |

HOW TO ORDER

| Reference | Description |
|-----------------|---|
| | Converter ANALOG – CANBUS |
| 8235978-06 | CANBUS Control box for Valor |
| 8235631 | Mini connection box MF8-TF8 |
| | Control heads (Select one of the following models) |
| BCT2015-12 | 15-BUTTON CONTROL BOX, for Valors Series BUTTON 1: Emergency lights (Priority lights and siren) BUTTON 2: Priority lights BUTTON 3: Siren High Intensity BUTTON 4: Siren Low Intensity BUTTON 5: Siren manual BUTTON 6: Radio telephone BUTTON 7: Take down lights BUTTON 8: Alley Lights BUTTON 9: Stop lights BUTTON 10: Aux output Canbus Siren Signalmaster control and cruise light (central key) |
| BCT2021-12 | 21-BUTTON CONTROL BOX, for Valor Series BUTTON 1: Emergency lights (Priority lights and siren) BUTTON 2: Priority lights BUTTON 3: Siren High Intensity BUTTON 4: Siren Low Intensity BUTTON 5: Siren manual BUTTON 6: Radio telephone BUTTON 7: Take down lights BUTTON 8: Alley Lights BUTTON 9: Stop lights BUTTON 10: Aux output Canbus Siren Signalmaster control and cruise light (central key) Safety kit control |
| | Accessories |
| | Auxiliary lights for mounting kits |
| IPX3FF-W-VAL | Impaxx, white Take Down light, with bracket |
| IPX3FL-W-VAL-01 | Impaxx, white Alley light, with bracket |
| | Mounting Options |
| 8234205 | Permanent mounting kit |
| 8234204 | Hook-on mounting kit (hook-on not included) |



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