

SD24

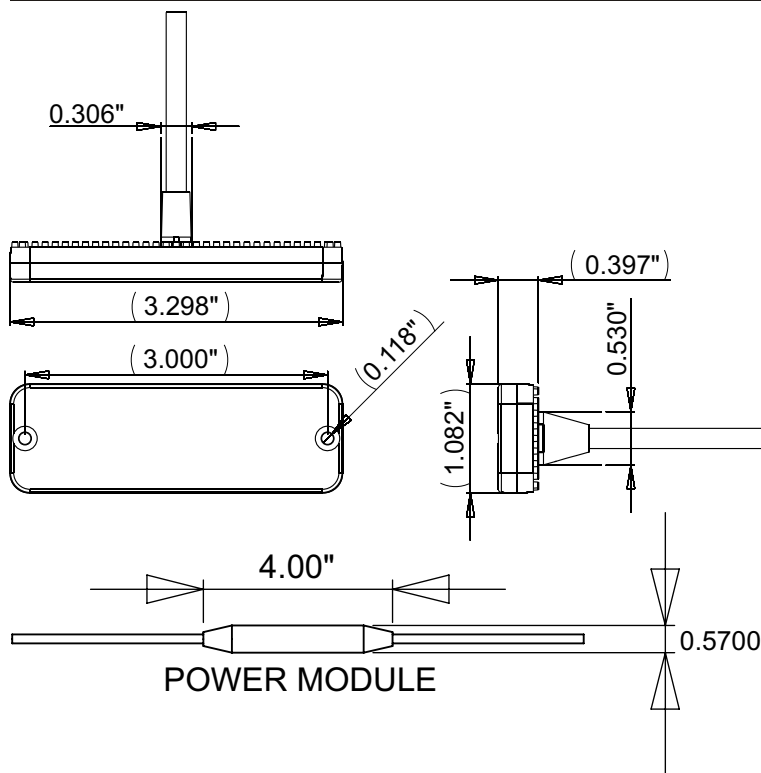
LOW PROFILE 24 LED HEAD



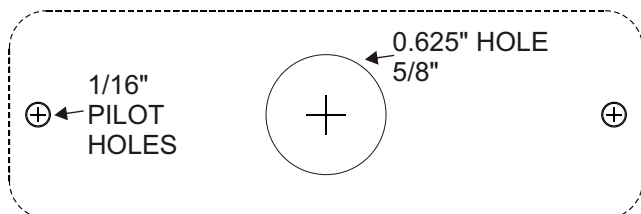
TECHNICAL SPECIFICATIONS

INPUT VOLTAGE	12.8V (10 to 16 Vdc)
INPUT CURRENT	0.75A maximum.
CABLE LENGTH.....	9 FT.
LED ELEMENTS	24
FLASH PATTERNS.....	16 (8 Standard, 8 optional cycle)
MAXIMUM NUMBER OF SYNCHRONIZED HEADS.....	64
WARRANTY PERIOD.....	5 YEARS
LIGHT OUTPUT	AMBER: 336 LUMENS
	BLUE: 120 LUMENS
	RED: 360 LUMENS
	WHITE: 450 LUMENS

DIMENSIONS



DRILLING TEMPLATE

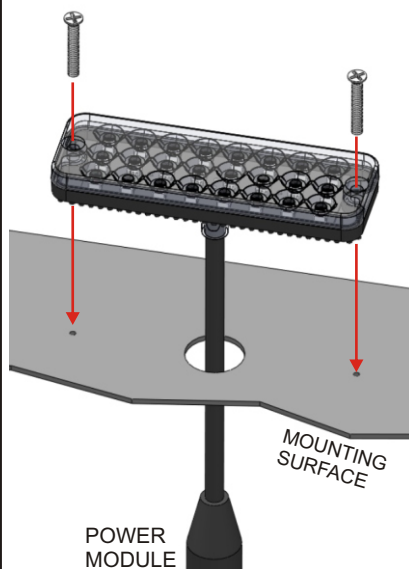


ACTUAL SIZE
(DO NOT FIT TO PAGE WHEN PRINTING FROM PDF)

INSTALLATION GUIDE

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MOUNTING



Drill a 0.625" diameter hole in the mounting surface to pass the cable through.

Use the provided #4 mounting screws to attach the SD24 to the mounting surface. The drilling template below can be used to mark the hole locations.

Use silicone sealant around the cable and screw holes to prevent moisture from entering body panels.

Note: There are electronic components in the power module. Do not drill into the power module.

ELECTRICAL CONNECTIONS

The cable on the SD24™ was made long enough to run across the front or the rear of a vehicle. Trim the cable shorter if needed. The wiring diagram on page 2 shows a typical install.

RED: +12V

Connect to +12V through an ON/OFF switch. The use of a fuse located close to the voltage source is recommended. Size the fuse according to the number of heads used in the system. 18AWG or larger wire is recommended.

DO NOT CONNECT THIS UNIT TO VOLTAGES HIGHER THAN 16 VOLTS DC!

BLACK: - GROUND

Connect to - GROUND vehicle chassis. 18AWG or larger wire is recommended.

BLUE: Flash pattern SYNC and SELECTION wire.

If you wish to have all the LED heads synchronize their flash timings and patterns with each other then all the BLUE wires must be connected together. (20 Heads Maximum) The BLUE wire is also used to select the flash pattern. Touch the BLUE wire to +V to select the next pattern in the FLASH PATTERN LIST. The BLUE wire can also be run to a momentary push-button located on the dashboard to allow the flash pattern to be changed when desired.

Note: Do not connect the BLUE wire to - Ground. It will disrupt the flash pattern sync signal.



ELECTRICAL CONNECTIONS

YELLOW: Alternating / Simultaneous selection.

The BLUE wires of all SD24™ heads must be connected together for the alternating /simultaneous function to work.

Connect to either +V or GROUND (GND).

The YELLOW wire makes the head fire AT THE SAME TIME or ALTERNATING with the other heads in the system.

Heads with YELLOW connected to +V fire at the same time.

Heads with YELLOW connected to GND fire at the same time.

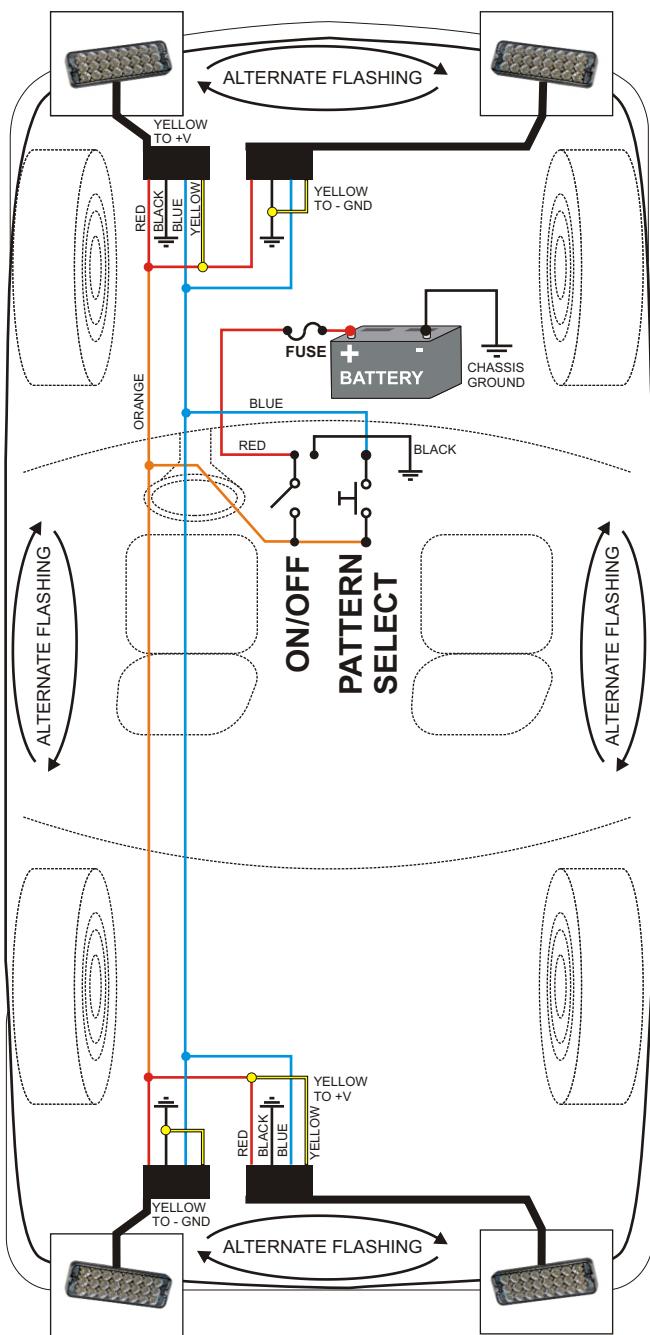
Heads with YELLOW connected to +V will ALTERNATE with heads that have YELLOW connected to GND.

The YELLOW wire has no function in STEADY ON mode.

The SD24™ will also synchronize with any BULL LED™ or HIDE-A-LED™ head. The wiring colors and functions are identical.

WIRING DIAGRAM

INSTALLATION OF 4 SD24™ USING PATTERN SELECT SWITCH PANEL (OPTIONAL) ON DASHBOARD.



FLASH PATTERNS

POWER-UP RESET:

After installing the system it is best to do a POWER-UP RESET the first time to ensure that all heads are in sync.

Touch BLUE wires to +V (RED wire) while applying power.

Release BLUE wires. All heads will reset to Pattern #2.

If you have installed a pattern select pushbutton, press and hold pattern select while turning power switch ON.

To select a flash pattern, touch BLUE to +V or press pattern select switch to increment the flash pattern. The heads will remember the selected pattern even if power is removed.

STANDARD PATTERNS			
#	Pattern:	Frequency:	Description:
1	Quad Flash	1.25 Hz	75 Quad Flashes Per Minute.
2	Double Flash	1.25 Hz	75 Double Flashes Per Minute.
3	Triple Flash	1.53 Hz	92.3 Triple Flashes Per Minute.
4	DeciBlast	1.42 Hz	85.5 Deci Flashes Per Minute.
5	Single Flash	1.25 Hz	75 Single Flashes Per Minute.
6	Mega Flash	1.90 Hz	114 Single Flashes Per Minute.
7	Triple+Burst	1.37 Hz	82.5 Triple+Burst Flashes Per Minute.
8	Steady On		Steady On. SPLIT COLOR = FAST MEGA
CYCLE PATTERNS			
9	Cycle All		Cycle through patterns 1 to 7.
10	Double-Triple+Burst		2 Double, 2 Triple+Burst cycle.
11	Cycle Classic		1 Double, 1 Quad, 2 Mega cycle.
12	Quad-Mega		3 Quad, 4 Mega cycle.
13	Single-Quad		2 Single, 2 Quad cycle.
14	DeciBlast-Quad		2 DeciBlast, 2 Quad cycle.
15	Single-Triple-DeciBlast		2 Single, 2 Triple, 2 DeciBlast cycle.
16	Mega-Triple+Burst		1 Mega, 1 Triple+Burst cycle.

STANDARD PATTERNS:

In order to maintain compatibility with older BULL LED™ and HIDE-A-LED™ product, the SD24™ ships with only the standard patterns enabled (1 through 8).

CYCLE PATTERNS:

You may add patterns 9 through 16 by following this procedure:

1) Touch BLUE wires to +V (RED wire) while applying power. If you have installed a pattern select pushbutton, press and hold pattern select while turning power switch ON.

2) Hold BLUE wires on +V for 5 SECONDS (heads will not be flashing during this time). After 5 SECONDS the heads will flash once or twice to indicate the flash pattern list that has been selected:

ONE FLASH = Standard Patterns only.

TWO FLASHES = Standard + Cycle patterns.

3) Remove the BLUE wires from +V (or release pushbutton).

You may switch the pattern set at any time as many times as you wish. All heads will remember the pattern set that was selected even when power is removed.

TROUBLESHOOTING

HEAD NOT FLASHING:

Check the RED and BLACK wires for a reversed connection. (Reverse connection will not damage the unit). Check RED and BLACK wires for either a bad splice or a corroded ground connection.

HEADS NOT SYNCHRONIZING:

Check for a short circuit on the BLUE wire to either +V or GROUND. Salt water on the wire connections will short circuit the sync signal on the BLUE wire. Check for non-functional heads in the system. If any one of the heads has a bad GROUND connection it can cause the sync signal to become corrupted. If any one of the heads has it's RED and BLACK wires reverse connected it will corrupt the sync signal.

FLASH PATTERN CHANGING:

If the flash pattern changes on it's own there may be an intermittent short between the BLUE wire and +V. Check for water in the wiring connections. If any one of the heads in the system has an intermittent GROUND connection it can also cause the flash pattern to change.