LED TRAFFIC ADVISOR OPERATING INSTRUCTION

R65 Class 1 | R10 ECE | SAE Class 1

Specification:

► Operating Voltage: DC 12-24V
► LED Power: 1.5W/LED
► Flash Pattern: 27
► IP Rating: IP67
► Operating Temperature: -30℃ to +60℃
► Approval: ECE R10, ECE R65 XA1(Amber LED Clear lens), CE, UKCA.
  Meet: SAE J595 Class 1 (Amber LED), CISPR 25 class 3.
► Reverse polarity protection.
► With memory function.
► Multiple units are synchronizable.
► Available for single color and dual color.
► Various wiring connetction options available depending on users'need.
► The cable can be extended according to customer's need.
► Installation: bracket with magnet, only bracket (standard), or bracket with suction cup.

⚠ It is mandatory to use ECE R65 certified flash patterns on public roads, while other flash patterns can be used only when it is permitted.
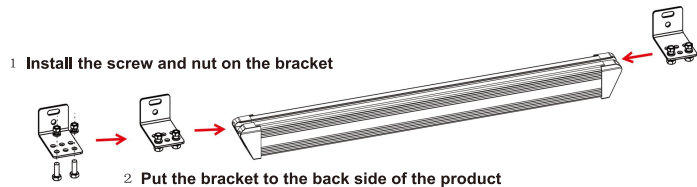
Flash pattern:

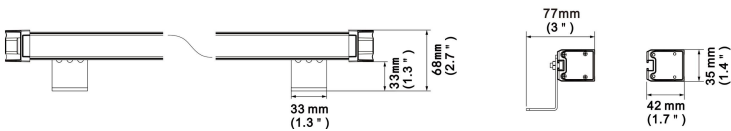| #		#	
#1	Single flash - Half to half (ECE R65)	#15	Double flash - Half to half (ECE R65)
#2	Quad flash - Half to half (ECE R65)	#16	Half to half + All
#3	Left arrowstick	#17	Single flash + Quad flash
#4	Left constant flash	#18	One - one eight flash (fast)
#5	Right arrowstick	#19	One - one single flash
#6	Right constant flash	#20	One - one single flash - Split accelerate
#7	Middle to side arrowstick	#21	Center - out quad flash (perfect performance when 6 or 8 modules)
#8	Middle to side constant flash	#22	Center - out flash (split accelerate)
#9	Single flash (High light)	#23	End octa flash- Half to half (perfect performance when 6 or 8 modules,while 2,3,4 and 5 modules don't flash)
#10	Single flash (Low light) (ECE R65)		
#11	Double flash (ECE R65)	#24	Out - steady on,Center - double flash (perfect performance when 6 or 8 modules)
#12	Quad flash (ECE R65)	#25	One - steady on,one - single flash
#13	Octa flash	#26	Cycle
#14	Single flash - Split accelerate	#27	Steady on

Mounting options:

Mounting for bracket (standard)

1. Put the bar on a flat surface, and install the mounting brackets on the back with the hardware as shown.
2. Place the bar in the selected location,and mark the hole locations. Adjust the mounting brackets as necessary.
3. Drill holes for mounting hardware (user supplied).
4. Install the bar with the hardware and attach them firmly so that it cannot be moved or lost.
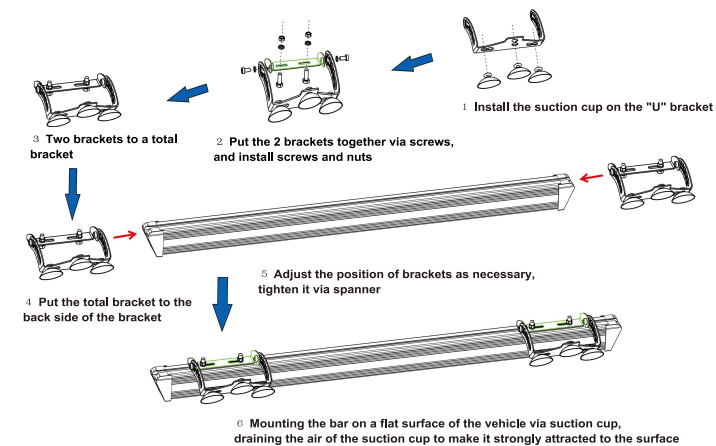
1 Install the screw and nut on the bracket

2 Put the bracket to the back side of the product

Size:

77mm (3")
33mm (1.3")
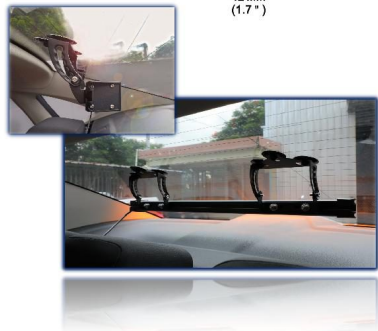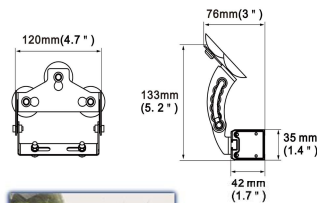68mm (2.7")
33mm (1.3")
42mm (1.7")
35mm (1.4")

Mounting for bracket with suction cup:

1. Install the suction cup on the "U" bracket.
2. Put the 2 brackets together via screws, and install screws and nuts.
3. Put the total bracket to the back side of the bracket.
4. Adjust the position of brackets as necessary, tighten it via spanner.
5. Mounting the bar on a flat surface of the vehicle via suction cup, draining the air of the suction cup to make it strongly attracted to the surface.

Mark: bracket with suction cup only available for single row and it need to be purchased separately.

3 Two brackets to a total bracket
2 Put the 2 brackets together via screws, and install screws and nuts
1 Install the suction cup on the "U" bracket
4 Put the total bracket to the back side of the bracket
5 Adjust the position of brackets as necessary, tighten it via spanner
6 Mounting the bar on a flat surface of the vehicle via suction cup, draining the air of the suction cup to make it strongly attracted to the surface

Drawing:

76mm(3")
120mm(4.7")
133mm (5.2")
35mm (1.4")
42mm (1.7")

Wiring options (Four Types):

1. Controller:

⏻	ON/OFF (Power)	◀	Left arrowstick
M	Previous pattern		Middle to side arrowstick
M	Next pattern	▶	Right arrowstick
	Day/Night mode	AUX	Steady on
COLOR OPTION	Color option	ALT	ON/OFF (An auxiliary device)

Controller

Standard adapter cable with 4 wires

Standard adapter cable - When with controller

To relay
To controller extension wire
To controller
To product
To power connector
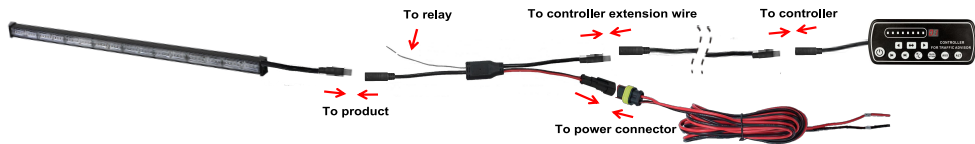
How to use the relay:

The current of this device should not exceed 30A.
Press the "ALT" button of the controller box can swith on an auxiliary device such as a strobe light, warning beacon, worklamp etc...
The relay wire connection as below :
1.Connect the bar red wire to relay contact 87, and aux device's to contact 30 ;
2.Place bar's and aux device's black wires together, and then connect to contact 86;
3.Connect the grey wire which is from controller to contact 85;
4.Turn on the whole equipment by connecting the power (+) to contact 87, and the power (–) to contact 86.

Contact 86: Product (-), Aux Device (-) & Power(-)
Contact 30: Aux Device (+)
Contact 87: Product (+) & Power (+)
Contact 85: Controller Grey Wire

2. Cigar plug:

● Power On/Off
● Pattern, dimming & color selector:
(1) Pattern selection:
......Less than 1second, next pattern;
......More than 5 seconds, turn off; power on again back to the pattern before turning off.
(2) Single color dimming (cycling) :
......Press 3-5 seconds, low intensity; 3-5 seconds again back to high intensity.
(3) Dual color dimming (cycling) :
......Press 1-3 seconds, low intensity; 1-3 seconds again back to high intensity.
(4) Color selection (cycling) :
......Press 3-5 seconds to Color#2; 3-5 seconds again alternate color#1 and #2; 3-5 seconds again back to color#1.

Pattern, dimming & color selector
Power On/Off

3. With 4 wires:

Red: + VDC
Black: - Ground
White: Synchronization, Connect white wires of all heads together for synchronization.
Yellow: Pattern, dimming & color selection (Apply to **Black wire**)
(1) Pattern selection:
......Less than 1second, next pattern;
......More than 5 seconds, turn off; power on again back to the pattern before turning off.

(2) Single color dimming (cycling) :
......Press 3-5 seconds, low intensity; 3-5 seconds again back to high intensity.
(3) Dual color dimming (cycling) :
......Press 1-3 seconds, low intensity; 1-3 seconds again back to high intensity.
(4) Color selection (cycling) :
......Press 3-5 seconds to Color#2; 3-5 seconds again alternate color#1 and #2; 3-5 seconds again back to color#1.

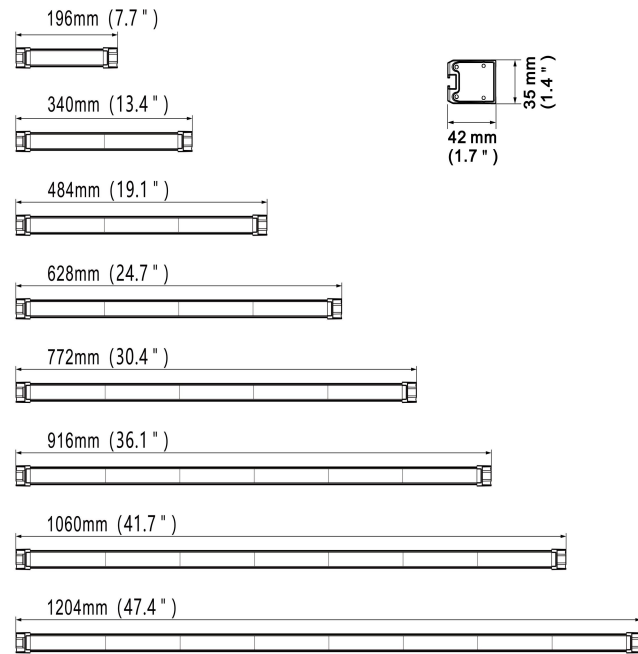### 4. With 7 wires (Straight cable 3.5m):

Red: + VDC
Black: - Ground
White: Synchronization,Connect white wires of all heads together for synchronization.
Yellow: Color and flash pattern selection (Apply to **Black wire**).
......Less than 1second for next pattern.
......1-3 seconds for low intensity, press 1-3 seconds again back to normal intensity.
......3-5 seconds for next color, another 3-5 seconds again for two colors alternate flash, another 3-5 seconds again back to first color, cycle operating like this (only available for dual color).
......More than 5 seconds for turn off, when power is reapplied it will resume the previous pattern.
Blue(Apply to black wire constantly): traffic advisor pattern—middle to side arrowstick.
Brown(Apply to black wire constantly): traffic advisor pattern—from left to right.
Green(Apply to black wire constantly): traffic advisor pattern—from right to left.

7 wires only single row

Size & LED QTY:

Module QTY	Size		LED QTY	
	L*W*H(mm)	L*W*H(in)	Single color	Dual color
1 PCS	196*42*35mm	7.7*1.7*1.4"	9LED*1.5W	18LED*1.5W
2 PCS	340*42*35mm	13.4*1.7*1.4"	18LED*1.5W	36LED*1.5W
3 PCS	484*42*35mm	19.1*1.7*1.4"	27LED*1.5W	54LED*1.5W
4 PCS	628*42*35mm	24.7*1.7*1.4"	36LED*1.5W	72LED*1.5W
5 PCS	772*42*35mm	30.4*1.7*1.4"	45LED*1.5W	90LED*1.5W
6 PCS	916*42*35mm	36.1*1.7*1.4"	54LED*1.5W	108LED*1.5W
7 PCS	1060*42*35mm	41.7*1.7*1.4"	63LED*1.5W	126LED*1.5W
8 PCS	1204*42*35mm	47.4*1.7*1.4"	72LED*1.5W	144LED*1.5W

Drawing:

196mm (7.7")
340mm (13.4")
484mm (19.1")
628mm (24.7")
772mm (30.4")
916mm (36.1")
1060mm (41.7")
1204mm (47.4")
42 mm (1.7")
35 mm (1.4")

⚠ WARNING

(1) Do not look directly into LEDs while in operation;may cause momentary blindness and/or eye damage.
(2) It is not recommened to use magnetically mounted warning devices on vehicles in motion, suggest if need to use available bolt installation on vehicles in motion. Usage is at sole risk and responsibility of the user.
(3) It is mandatory to use ECE R65 certified flash patterns on public roads; while other flash patterns can be used only when it is permitted.

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