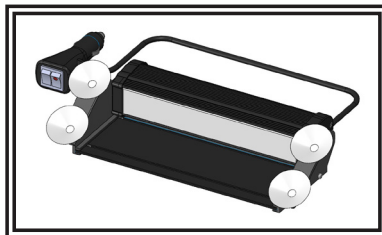




Installation and Operating Instructions

Grill/Deck/Dash LED Heads

Code 3's CD8101 series LED heads are compact and versatile high intensity directional LED warning lights suitable for mounting anywhere on a vehicle. Colorless until illuminated, these discrete LED heads feature encapsulated electronics offering a high degree of environmental and vibration protection. Each model is supplied with temporary (window) mounting hardware. The CD8101 Series features 29 flash patterns.



WARNING!

Failure to install or use this product according to manufacturers recommendations may result in property damage, serious injury, and/or death to those you are seeking to protect!



Do not install and/or operate this safety product unless you have read and understand the safety information contained

1. Proper installation combined with operator training in the use, care, and maintenance of emergency warning devices are essential to ensure the safety of you and those you are seeking to protect.
2. Exercise caution when working with live electrical connections.
3. This product must be properly grounded. Inadequate grounding and/or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or severe vehicle damage, including fire.
4. Proper placement and installation are vital to the performance of this warning device. Install this product so that output performance of the system is maximized and the controls are placed within convenient reach of the operator so that s/he can operate the system without losing eye contact with the roadway.
5. Do not install this product or route any wires in the deployment area of an air bag. Equipment mounted or located in an air bag deployment area may reduce the effectiveness of the air bag or become a projectile that could cause serious personal injury or death. Refer to the vehicle owner's manual for the air bag deployment area. It is the responsibility of the user/operator to determine a suitable mounting location ensuring the safety of all passengers inside the vehicle particularly avoiding areas of potential head impact.
6. It is the responsibility of the vehicle operator to ensure during use that all features of this product work correctly. In use, the vehicle operator should ensure the projection of the warning signal is not blocked by vehicle components (i.e., open trunks or compartment doors), people, vehicles or other obstructions.
7. The use of this or any other warning device does not ensure all drivers can or will observe or react to a warning signal. Never take the right-of-way for granted. It is your responsibility to be sure you can proceed safely before entering an intersection, driving against traffic, responding at a high rate of speed, or walking on or around traffic lanes.
8. This equipment is intended for use by authorized personnel only. The user is responsible for understanding and obeying all laws regarding warning signal devices. Therefore, the user should check all applicable city, state, and federal laws and regulations. The manufacturer assumes no liability for any loss resulting from the use of this warning device.

CONTENTS:

CD8101VDL2 DUAL HEAD STANDARD

- 1 - CD8101 Dual LED Head with windshield bracket
- 1- Universal Mounting Bracket
- 4 - Suction Cups
- 3 - Mounting Tape Strips
- 1 - Manual
- 4 - Screws M4 x 16mm

SPECIFICATIONS:

	CD8101VDL2
Input Voltage	12-24VDC
Input Current	1.0 Amps peak @ 12VDC, 0.4A AVG @ 12VDC
Size (W x L x H) Include Shield	255.2 x 88.5 x 53.2mm
Flash Patterns	29

Important! This unit is a safety device and it must be connected to its own separate, fused power point to assure its continued operation should any other electrical accessory fail.

Caution: When drilling into any vehicle surface, make sure the area is free from any electrical wires, fuel lines, vehicle upholstery, etc. that could be damaged

Mounting Instructions:

1. Determine light location and ensure that it is free of any obstacles that may impede light output. Adjust the light to the desired angle by loosening the screws located on each end, adjust then re-tighten.
2. Ensure glass is clean and dry prior to installation. Suction Cup Mounting requires the bracket to be in contact with the dashboard while secured to the windshield. For tape applications, apply at surface/ambient temperature > 15°C and allow 20 minutes to cure. (Figure 1)

NOTE: Suction mounting systems are affected by changes in environmental conditions and should therefore be checked regularly to ensure integrity.

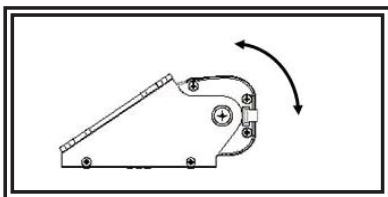
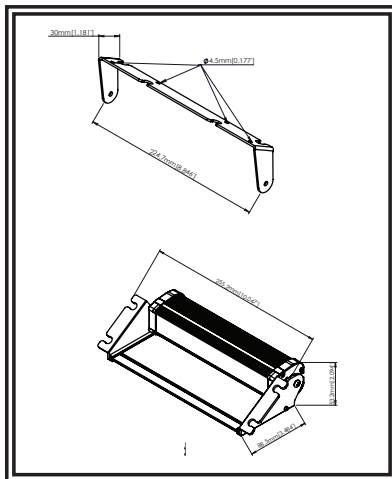


Figure 1

Dimensions



Plug Instructions:

Dual Switch Cigarette Plug (3A fuse inside)

The lighted switch is the Power on/off switch. The other switch is the Flash Pattern. Input Wire Length: 273cm (9ft.) use 4C cable.

Operation:

FLASH PATTERN SWITCH	CD8101VDL2
	FUNCTION
0-1 sec.	NEXT PATTERN/ON
1-3 sec.	PREVIOUS PATTERN
3-5 sec.	FACTORY DEFAULT PATTERN
Over 5 sec.	Pattern #29 (4 Single Flash, 2 Quad Flash Alt.)

Operation Environment:

Ambient Temperature: -30 to 50°C

Relative Humidity: 10 to 85%, non-condensing

Flash Pattern

Pattern	Description	FPM	Phase
1	Single Flash	75	A
2	Single Flash	75	B
3	Single Flash Alternating	75	
4	Single Flash	120	A
5	Single Flash	120	B
6	Single Flash Alternating	120	
7	Double Flash	75	A
8	Double Flash	75	B
9	Double Flash Alternating	75	
10	Double Flash	120	A
11	Double Flash	120	B
12	Double Flash Alternating	120	
13-Default	Quad Flash	75	A
14	Quad Flash	75	B
15	Quad Flash Alternating	75	
16	Quad Flash	150	A
17	Quad Flash	150	B
18	Quad Flash Alternating	150	
19	Triple	75	A
20	Triple	75	B
21	Triple Alternating	75	
22	Quint Flash	150	A
23	Quint Flash	150	B
24	Quint Flash Alternating	150	
25	Steady - Single		
26	Steady Burn		
27	Modulation		
28	2 Double Flash, 2 Triple Alternating		
29	4 Single Flash , 2 Quad Flash Alternating		

Phase Operation

Phase A (PA) flashes **simultaneously** with PA

Phase B (PB) flashes **simultaneously** with PB

PA **alternates** with PB

Troubleshooting

The CD8101 series has been factory tested and approved. If the functions of the device fail, please check the following:

1. After connecting with the power supply, be sure that the power source end is joined correctly. Make sure there is not a short circuit.
2. Plug in the device; ensure the LED power switch is on.

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