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**CODE 3 LEDEX Directional LED
Instruction Manual**

CODE 3 **Installation and Operation Instructions**
LEDEX Directional LED

Installation and Operation Instructions LEDEX Directional LED

IMPORTANT! Read all instructions before installing and using. Installer: This manual must be delivered to the end user.

 **WARNING!** Failure to install or use this product according to manufacturer's 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 understood the safety information contained in this manual.

1. Proper installation combined with operator training in the use, care, and maintenance of emergency warning devices are essential to ensure the safety of emergency personnel and the public.
2. Emergency warning devices often require high electrical voltages and/or currents. 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 is 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 they 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 daily 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 an emergency warning signal. Never take the right-of-way for granted. It is the vehicle operator's responsibility to be sure they can proceed safely before entering an intersection, drive against traffic, respond at a high rate of speed, or walk 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 emergency warning 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.

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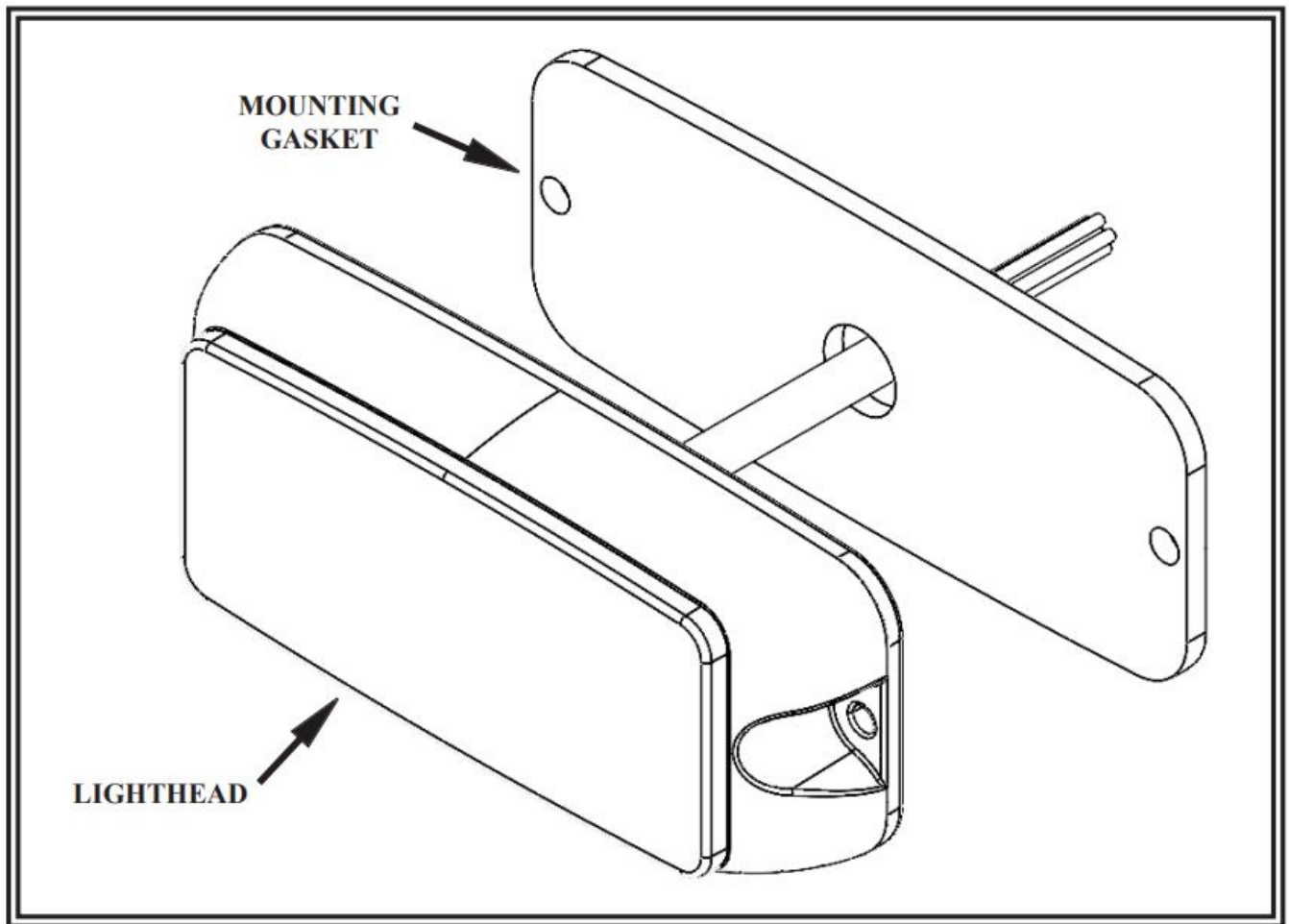
SPECIFICATIONS:

	Power	Current	Dimensions	Weight
CD4080/81A	22.66W	1.77A	4.75" X 1.25" X 1.75"	0.40 lbs
CD4080/81B	22.27W	1.74A		
CD4080/81G	21.25W	1.66A		
CD4080/81R	18.82W	1.47A		
CD4080/81W	21.89W	1.71A		
CD4080/81AW	12.16W	0.95A		
CD4080/81RB	12.16W	0.95A		
CD4080/81BW	12.16W	0.95A		
CD4080/81RW	12.16W	0.95A		
CD4080/81RA	12.16W	0.95A		
CD4080/81BA	12.16W	0.95A		
CD4080/81AG	12.16W	0.95A		

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:



CD4080/81X Single Color Wire Function:

Color	Function
RED	Positive, Memory Mode 1
BLACK	Negative
BLUE	Pattern Select to Negative
YELLOW	Synchronized Function
GREEN	Dimming Function to Positive

Phase Operation:

Phase 1 (Ph1) flashes simultaneously with Ph1

Phase 2 (Ph2) flashes simultaneously with Ph2

Ph1 alternates with Ph2

(Up to 8 units can be Synchronized)

Apply **BLUE TO BLACK** wire:

-Less than 1 sec. for next pattern

-Between 1-3 sec for previous pattern

- Between 3-5 sec. for default
- More than 5 sec. for steady burn

CD4080/81XX Dual Color Wire Function:

Color	Function
RED	Positive, Memory Mode 1
WHITE	Positive, Memory Mode 2 (dual color only)
RED + WHITE	Positive, Memory Mode 3
BLACK	Negative
BLUE	Pattern Select to Negative
YELLOW	Synchronized Function
GREEN	Dimming Function to Positive

Operation Environment:

Ambient Temperature: -40 to 65°C

Single Color Flash Pattern Chart:

Pattern	Mode	Patterns	Sync.	SAE J595				CA T13		
				RED	AMBER	BLUE	WHITE	RED	AMBER	BLUE
1	1	Single Flash 75FPM sim Phase 1	yes	yes	yes	yes	yes	yes	yes	yes
	2	Single Flash 75FPM sim Phase 2	yes	yes	yes	yes	yes	yes	yes	yes
2	3	Single Flash 120FPM sim Phase 1	yes	yes	yes	yes	yes	N/C	N/C	N/C
	4	Single Flash 120FPM sim Phase 2	yes	yes	yes	yes	yes	N/C	N/C	N/C
3	5	Double Flash 75FPM sim Phase 1	yes	yes	yes	yes	yes	yes	yes	yes
	6	Double Flash 75FPM sim Phase 2	yes	yes	yes	yes	yes	yes	yes	yes
4	7	Double Flash 120FPM sim Phase 1	yes	yes	yes	yes	yes	N/C	N/C	N/C
	8	Double Flash 120FPM sim Phase 2	yes	yes	yes	yes	yes	N/C	N/C	N/C
5	9	Quad Flash 75FPM sim Phase 1	yes	yes	yes	yes	yes	N/C	N/C	N/C
	10	Quad Flash 75FPM sim Phase 2	yes	yes	yes	yes	yes	N/C	N/C	N/C
6	11	Quad Flash 150FPM sim Phase 1	yes	yes	yes	yes	yes	N/C	N/C	N/C
	12	Quad Flash 150FPM sim Phase 2	yes	yes	yes	yes	yes	N/C	N/C	N/C
7	13	Triple Flash 75FPM sim Phase 1	yes	yes	yes	yes	yes	yes	yes	yes
	14	Triple Flash 75FPM sim Phase 2	yes	yes	yes	yes	yes	yes	yes	yes
8	15	Quint Flash 150FPM sim Phase 1	yes	yes	yes	yes	yes	N/C	N/C	N/C
	16	Quint Flash 150FPM sim Phase 2	yes	yes	yes	yes	yes	N/C	N/C	N/C
9	17-Default	Steady Burn	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C
10	18	Modulation	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C
11	19	2 Double Flash, 2 Triple Alt.	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C
12	20	4 Single Flash, 2 Quad Flash Alt.	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C

Dual Color Flash Pattern Chart:

Pattern	LED Color 1 Red line	LED Color 2 White line	LED Color 1 & Color 2 Red & White line	PATTERNS	Mark	SYNC	SAE J595				CAT13		
							RED	AMBER	BLUE	WHITE	RED	AMBER	BLUE
1	1		1	SAE/T13 Single 75FPM Ph1 Color 1	A	yes	yes	yes	yes	yes	yes	yes	yes
	2		2	SAE/T13 Single 75FPM Ph2 Color 1		yes	yes	yes	yes	yes	yes	yes	yes
		1	3	SAE/T13 Single 75FPM Ph1 Color 2		yes	yes	yes	yes	yes	yes	yes	yes
		2	4	SAE/T13 Single 75FPM Ph2 Color 2		yes	yes	yes	yes	yes	yes	yes	yes
	3	3	5	SAE/T13 Single 38FPM Ph1 Color 1 Alternately Color 2		yes							
	4	4	6	SAE/T13 Single 38FPM Ph2 Color 1 Alternately Color 2	E	yes							
2	5	5	7	SAE/T13 Single 38FPM Ph1 Color 2 Alternately Color 1		yes							
	6		8	Single 375FPM Ph1 Color 1	D	yes							
	7		9	Single 375FPM Ph2 Color 1		yes							
		6	10	Single 375FPM Ph1 Color 2		yes							
		7	11	Single 375FPM Ph2 Color 2		yes							
	8	8	12	Single 187FPM Ph1 Color 1 Alternately Color 2	H	yes							
3	9	9	13	Single 187FPM Ph2 Color 1 Alternately Color 2		yes							
	10	10	14	Single 187FPM Ph1 Color 2 Alternately Color 1	A	yes							
	11		15	SAE/T13 Double 75FPM Ph1 Color 1		yes	yes	yes	yes	yes			
	12		16	SAE/T13 Double 75FPM Ph2 Color 1		yes	yes	yes	yes	yes			
		11	17	SAE/T13 Double 75FPM Ph1 Color 2		yes	yes	yes	yes	yes			
		12	18	SAE/T13 Double 75FPM Ph2 Color 2	E	yes	yes	yes	yes	yes			
4	13	13	19	SAE/T13 Double 38FPM Ph1 Color 1 Alternately Color 2		yes							
	14	14	20	SAE/T13 Double 38FPM Ph2 Color 1 Alternately Color 2		yes							
	15	15	21	SAE/T13 Double 38FPM Ph1 Color 2 Alternately Color 1		yes							
	16		22	ECER65/SAE Double 120FPM Ph1 Color 1	B	yes	yes	yes	yes	yes			
	17		23	ECER65/SAE Double 120FPM Ph2 Color 1		yes	yes	yes	yes	yes			
		16	24	ECER65/SAE Double 120FPM Ph1 Color 2		yes	yes	yes	yes	yes			
5		17	25	ECER65/SAE Double 120FPM Ph2 Color 2		yes	yes	yes	yes	yes			
	18	18	26	ECER65/SAE Double 60FPM Ph1 Color 1 Alternately Color 2	F	yes							
	19	19	27	ECER65/SAE Double 60FPM Ph2 Color 1 Alternately Color 2		yes							
	20	20	28	ECER65/SAE Double 60FPM Ph1 Color 2 Alternately Color 1		yes							
	21		29	SAE/T13 Triple 75FPM Ph1 Color 1	A	yes	yes	yes	yes	yes			
	22		30	SAE/T13 Triple 75FPM Ph2 Color 1		yes	yes	yes	yes	yes			
6		21	31	SAE/T13 Triple 75FPM Ph1 Color 2		yes	yes	yes	yes	yes			
		22	32	SAE/T13 Triple 75FPM Ph2 Color 2		yes	yes	yes	yes	yes			
	23	23	33	SAE/T13 Triple 38FPM Ph1 Color 1 Alternately Color 2	E	yes							
	24	24	34	SAE/T13 Triple 38FPM Ph2 Color 1 Alternately Color 2		yes							
	25	25	35	SAE/T13 Triple 38FPM Ph1 Color 2 Alternately Color 1		yes							
7	26		36	SAE/T13 Quad 75FPM Ph1 Color 1	A	yes	yes	yes	yes	yes			
	27		37	SAE/T13 Quad 75FPM Ph2 Color 1		yes	yes	yes	yes	yes			
		26	38	SAE/T13 Quad 75FPM Ph1 Color 2		yes	yes	yes	yes	yes			
		27	39	SAE/T13 Quad 75FPM Ph2 Color 2		yes	yes	yes	yes	yes			
	28	28	40	SAE/T13 Quad 38FPM Ph1 Color 1 Alternately Color 2	E	yes							
	29	29	41	SAE/T13 Quad 38FPM Ph2 Color 1 Alternately Color 2		yes							
8	30	30	42	SAE/T13 Quad 38FPM Ph1 Color 2 Alternately Color 1		yes							
	31		43	ECER65/SAE Quad 120FPM Ph1 Color 1	B	yes	yes	yes	yes	yes			
	32		44	ECER65/SAE Quad 120FPM Ph2 Color 1		yes	yes	yes	yes	yes			
		31	45	ECER65/SAE Quad 120FPM Ph1 Color 2		yes	yes	yes	yes	yes			
		32	46	ECER65/SAE Quad 120FPM Ph2 Color 2		yes	yes	yes	yes	yes			
	33	33	47	ECER65/SAE Quad 60FPM Ph1 Color 1 Alternately Color 2	F	yes							
9	34	34	48	ECER65/SAE Quad 60FPM Ph2 Color 1 Alternately Color 2		yes							
	35	35	49	ECER65/SAE Quad 60FPM Ph1 Color 2 Alternately Color 1		yes							
	8		50	Modulation Color 1 Alternately Color 2		no							
	9		51	2 Double, 2 Quad Color 1 Alternately Color 2		no							
	10		52	4 Single, 2 Triple Color 1 Alternately Color 2		no							
	11		53	1 Double, 1 Triple, 1 Quad Color 1 Alternately Color 2	N/A	no							
12	36-Default		54-Default	Steady burn Color 1		no							
		36-Default	55	Stead burn Color 2		no							

Troubleshooting

The CD4080/81 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.
3. Press the Pattern Switch to ensure “OFF” pattern is not selected. If the blue wire touches the black wire over 5 seconds, it would switch to the steady burn pattern. It will light up again when the blue wire touches the black wire continuously for less than 1 second.

Manufacturer Limited Warranty Policy:

Manufacturer warrants that on the date of purchase this product will conform to Manufacturer’s specifications for this product (which are available from the Manufacturer upon request). This Limited Warranty extends for Sixty (60) months from the date of

purchase.

DAMAGE TO PARTS OR PRODUCTS RESULTING FROM TAMPERING, ACCIDENT, ABUSE, MISUSE, NEGLIGENCE, UNAPPROVED MODIFICATIONS, FIRE OR OTHER HAZARD; IMPROPER INSTALLATION OR OPERATION; OR NOT BEING MAINTAINED IN ACCORDANCE WITH THE MAINTENANCE PROCEDURES SET FORTH IN MANUFACTURER'S INSTALLATION AND OPERATING INSTRUCTIONS VOIDS THIS LIMITED WARRANTY.

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This Limited Warranty defines specific legal rights. You may have other legal rights which vary from jurisdiction to jurisdiction. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages.

Product Returns:

If a product must be returned for repair or replacement*, please contact our factory to obtain a Return Goods Authorization Number (RGA number) before you ship the product to Code 3®, Inc. Write the RGA number clearly on the package near the mailing label. Be sure you use sufficient packing materials to avoid damage to the product being returned while in transit.

*Code 3®, Inc. reserves the right to repair or replace at its discretion. Code 3®, Inc. assumes no responsibility or liability for expenses incurred for the removal and /or reinstallation of products requiring service and/or repair.; nor for the packaging, handling, and shipping; nor for the handling of products returned to sender after the service has been rendered.



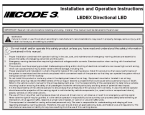
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Documents / Resources



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LEDEX Directional LED, LEDEX, Directional LED, LED

References

- [User Manual](#)

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