



# Installation and Operation Instructions

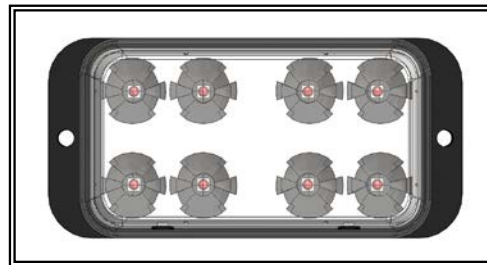
## XTP SERIES LIGHT HEADS

### Dual Stack Single and Split Colors

#### Introduction:

CODE3 XTP 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 a high degree of environmental and vibration protection.

Additional benefits include low current draw, a long and maintenance free service life with reliable solid-state operation. LED heads can be controlled by conventional switches or relays and can also be synchronized to flash with other compatible CODE3 synchronizing LED products.



**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 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 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 s/he can operate the system without losing eye contact with the roadway.
5. 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.
6. 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 your responsibility to be sure you can proceed safely before entering an intersection, drive against traffic, respond at a high rate of speed, or walk on or around traffic lanes.
7. 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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#### Package Contains:

1	Light Head
2	Screws
1	Installation Guide
1	Mounting Gasket
1	Bezel

#### Specifications:

Light Head Model	XTP4-Dual Stack
Input Voltage	12-24VDC
Work Current	1.0A Max @ DC12V or 24V
Physical H x W x L	0.62 in x 2.39 in x 4.72 in 1.58 cm x 6.07 cm x 11.98 cm
Weight	0.210 lb (0.10 Kg)
Avail Single Colors	Red, Blue, Amber, White, Green
Available Dual Colors	Amb/Wht, Blue/Amb, Blue/Wht, Red/Amb, Red/Blue, Red/Wht

#### Operation Environment:

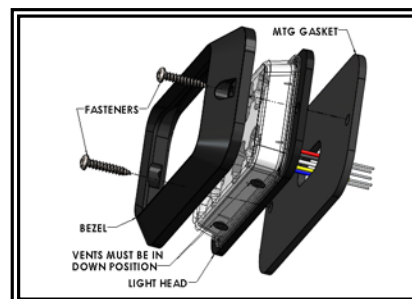
Ambient Temperature: -40 to 77°C (-40 to 170°F)

#### Installation and Mounting:

To mount the light head, use the bezel as a template to mark the mounting holes. The supplied self-tapping #6 x 0.75" screws typically use 0.125" diameter holes but this may vary depending on the type of material and the thickness being tapped. Provide a minimum 0.50" diameter hole for the wires. Grommet the hole if possible and seal with RTV sealant.

#### It is important to note:

The light head has 2 small round holes covered with vent membrane that must face downward when mounting the light head.



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

## Wiring Instructions:

RED: Positive, (5A fuse required)

WHITE: Positive, (5A fuse required)

BLACK: Negative

BLUE: Pattern select to negative -- Dim control to positive

YELLOW: Synchronized Function (Up to 32 units can be Synchronized)

**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.

## Notes on Choosing Flash Patterns:

A variety of flash patterns may be chosen for the light head. The Dual Stack light heads are split horizontally and vertically providing 4 separate lighted areas in each light head that may be chosen to flash up-down, right-left, diagonally, and to rotate. The Split Dual Color version also provides different colors for the upper level versus the lower level.

A separate flash pattern may be assigned for the power wires red, white, or both connected together and the pattern operated depending which wire or wires are energized. Power the red or the white wires (or both together) then use the pattern select blue wire (touch to ground) to select the chosen flash pattern from one of the lists below.

Note: The split dual color light heads have a separate flash pattern list.

See the legend at the top of the pattern lists for compliance with various standards.

## Pattern Select Operation:

The light head flash pattern may be changed by touching the Blue wire to ground for the following intervals (while the light head is flashing):

NOTE: The blue wire must be disconnected from any voltage when not activating DIM nor changing flash patterns.

- When the light head signal becomes steady, disconnect the Blue wire and the flash pattern will increment by one pattern.

- When the light head signal becomes steady, then goes off, disconnect the Blue wire and the flash pattern will decrement by one pattern.

- When the light head signal becomes steady, then goes off, then becomes steady again, disconnect the Blue wire and the flash pattern will reset to the factory default pattern.

- When the light head signal becomes steady, then goes off, then becomes steady again, then goes off again, disconnect the Blue wire and the flash pattern will become set to the steady burn mode.

## Notes on Dim Control:

The light head intensity may be reduced if necessary. The Blue wire when connected to positive will reduce the intensity to 25% for SAE patterns. NOTE: The blue wire must be disconnected from any voltage when not activating DIM nor changing flash patterns.

## Notes on Synchronizing and Phase (Sync Ph):

(Up to 32 light heads can be Synchronized by connecting their yellow wires).

When the yellow wires of the light heads are connected together, the group with Ph1 flash patterns will flash simultaneously. If the light heads in the second group are set to Ph2 flash patterns, they will flash alternately with the first group. To simplify the set-up of a synchronized installation, the following process is recommended:

- Before connecting the yellow wires together, choose the desired flash pattern for each light head. **The patterns chosen must have the same flash rate for all light heads intended to be synchronized. (By definition a 75fpm light head will not sync with at 120fpm light head)** To avoid confusion set each light head individually to the chosen flash pattern using the blue pattern select wire. Ph1 light heads will alternate with Ph2 light heads and simultaneously with all other light heads set to Ph1. Ph2 light heads flash simultaneously with all other light heads set to Ph2. It is also strongly recommended that the same style of flash pattern be used on all heads to produce the most effective warning pattern.
- Connect the yellow synchronization wires together and check that the light heads are flashing in a synchronized manner as expected. If a pattern for one light head appears to be wrong, keep the yellow wire connected and use the blue pattern select wire to cycle forward or backward for that individual light head until the correct pattern is selected. Once that is completed verify the light head is synchronized correctly.

## Flash Patterns XTP4DS Single Color: (continued on next page)

For patterns that meet SAE J595 Class1 requirements for Red, Blue, Amber, and White, see **S** in chart below!

For patterns that meet California Title 13 Class B requirements for Red, Blue, and Amber, see **C** in chart below!

PATTERN GROUP	RED WIRE	WHITE WIRE	RED & WHITE WIRE	FLASH PATTERN	SYNC	Complies with
0	1-Default	1-Default	1-Default	Cycle Flash	no	
1	2	2	2	Single Flash 75FPM Ph1 Sim	yes	SC
	3	3	3	Single Flash 75FPM Ph2 Sim	yes	SC
	4	4	4	Single Flash 75FPM Up-Down Alt	yes	S
	5	5	5	Single Flash 75FPM Right-Left Alt	yes	S
	6	6	6	Single Flash 75FPM Diagonal Alt	yes	S
	7	7	7	Single Flash 75FPM Rotate CCW	no	
	8	8	8	Single Flash 75FPM Rotate CW	no	
	9	9	9	Single Flash 120FPM Ph1 Sim	yes	SC
2	10	10	10	Single Flash 120FPM Ph2 Sim	yes	SC
	11	11	11	Single Flash 120FPM Up-Down Alt	yes	S
	12	12	12	Single Flash 120FPM Right-Left Alt	yes	S
	13	13	13	Single Flash 120FPM Diagonal Alt	yes	S
	14	14	14	Single Flash 120FPM Rotate CCW	yes	
	15	15	15	Single Flash 120FPM Rotate CW	yes	
	16	16	16	Double Flash 75FPM Ph1 Sim	yes	SC
	17	17	17	Double Flash 75FPM Ph2 Sim	yes	SC
3	18	18	18	Double Flash 75FPM Up-Down Alt	yes	S
	19	19	19	Double Flash 75FPM Right-Left Alt	yes	S
	20	20	20	Double Flash 75FPM Diagonal Alt	yes	S
	21	21	21	Double Flash 75FPM Rotate CCW	no	
	22	22	22	Double Flash 75FPM Rotate CW	no	

PATTERN GROUP	RED WIRE	WHITE WIRE	RED & WHITE WIRE	FLASH PATTERN	SYNC	Complies with
4	23	23	23	Double Flash 120FPM Ph1 Sim	yes	S
	24	24	24	Double Flash 120FPM Ph2 Sim	yes	S
	25	25	25	Double Flash 120FPM Up-Down Alt	yes	S
	26	26	26	Double Flash 120FPM Rt-Left Alt	yes	S
	27	27	27	Double Flash 120FPM Diagonal Alt	yes	S
	28	28	28	Double Flash 120FPM Rotate CCW	no	
	29	29	29	Double Flash 120FPM Rotate CW	no	
	30	30	30	Quad Flash 75FPM Ph1 Sim	yes	SC
5	31	31	31	Quad Flash 75FPM Ph2 Sim	yes	SC
	32	32	32	Quad Flash 75FPM Up-Down Alt	yes	S
	33	33	33	Quad Flash 75FPM Right-Left Alt	yes	S
	34	34	34	Quad Flash 75FPM Diagonal Alt	yes	S
	35	35	35	Quad Flash 75FPM Rotate CCW	no	
	36	36	36	Quad Flash 75FPM Rotate CW	no	
	37	37	37	Quad Flash 150FPM Ph1 Sim	yes	S
6	38	38	38	Quad Flash 150FPM Ph2 Sim	yes	S
	39	39	39	Quad Flash 150FPM Up-Down Alt	yes	S
	40	40	40	Quad Flash 150FPM Right-Left Alt	yes	S
	41	41	41	Quad Flash 150FPM Diagonal Alt	yes	S
	42	42	42	Quad Flash 150FPM Rotate CCW	no	
	43	43	43	Quad Flash 150FPM Rotate CW	no	

## Flash Patterns XTP4DS Single Color Continued:

For patterns that meet SAE J595 Class1 requirements for Red, Blue, Amber, and White, see **S** in chart below!

For patterns that meet California Title 13 Class B requirements for Red, Blue, and Amber, see **C** in chart below!

PATTERN GROUP	RED WIRE	WHITE WIRE	RED & WHITE WIRE	FLASH PATTERN	SYNC	Complies with
7	44	44	44	Triple 75FPM Ph1 Sim	yes	S
	45	45	45	Triple 75FPM Ph2 Sim	yes	S
	46	46	46	Triple Flash 75FPM Up-Down Alt	yes	S
	47	47	47	Triple Flash 75FPM Right-Left Alt	yes	S
	48	48	48	Triple Flash 75FPM Diagonal Alt	yes	S
	49	49	49	Triple Flash 75FPM Rotate CCW	no	
8	50	50	50	Triple Flash 75FPM Rotate CW	no	
	51	51	51	Quint Flash 150FPM Ph1 Sim	yes	S
	52	52	52	Quint Flash 150FPM Ph2 Sim	yes	S
	53	53	53	Quint Flash 150FPM Up-Down Alt	yes	S
	54	54	54	Quint Flash 150FPM Right-Left Alt	yes	S
	55	55	55	Quint Flash 150FPM Diagonal Alt	yes	S
9	56	56	56	Quint Flash 150FPM Rotate CCW	no	
	57	57	57	Quint Flash 150FPM Rotate CW	no	
10	58	58	58	Steady - Single	no	
11	59	59	59	Modulation	no	
12	60	60	60	2 Double Flash, 2 Triple Flash Alt.	no	
13	61	61	61	4 Single Flash, 2 Quad Flash Alt.	no	
	62	62	62	Steady Burn	no	

## Flash Patterns XTP4DS Split Dual Color:

For patterns that meet SAE J595 Class1 requirements for Red, Blue, Amber, and White, see **S** in chart below!

PATTERN GROUP	RED WIRE	WHITE WIRE	RED & WHITE WIRE	FLASH PATTERN	SYNC	Complies with
0	1-Default	1-Default	1-Default	Cycle Flash	No	
1	2	2	2	Single Flash 75FPM Alt Up-Dn Ph1	yes	S
	3	3	3	Single Flash 75FPM Alt Up-Dn Ph2	yes	S
	4	4	4	Single Flash 75FPM Rotate CCW	no	
	5	5	5	Single Flash 75FPM Rotate CW	no	
2	6	6	6	Single Flash 120FPM Alt Up-Dn Ph1	yes	S
	7	7	7	Single Flash 120FPM Alt Up-Dn Ph2	yes	S
	8	8	8	Single Flash 120FPM Rotate CCW	no	
	9	9	9	Single Flash 120FPM Rotate CW	no	
3	10	10	10	Double Flash 75FPM Alt Up-Dn Ph1	yes	S
	11	11	11	Double Flash 75FPM Alt Up-Dn Ph2	yes	S
	12	12	12	Double Flash 75FPM Rotate CCW	no	
	13	13	13	Double Flash 75FPM Rotate CW	no	
4	14	14	14	Double Flash 120FPM Alt Up-Dn Ph1	yes	S
	15	15	15	Double Flash 120FPM Alt Up-Dn Ph2	yes	S
	16	16	16	Double Flash 120FPM Rotate CCW	no	
	17	17	17	Double Flash 120FPM Rotate CW	no	
5	18	18	18	Quad Flash 75FPM Alt Up-Dn Ph1	yes	S
	19	19	19	Quad Flash 75FPM Alt Up-Dn Ph2	yes	S
	20	20	20	Quad Flash 75FPM Rotate CCW	no	
	21	21	21	Quad Flash 75FPM Rotate CW	no	
6	22	22	22	Quad Flash 150FPM Alt Up-Dn Ph1	yes	S
	23	23	23	Quad Flash 150FPM Alt Up-Dn Ph2	yes	S
	24	24	24	Quad Flash 150FPM Rotate CCW	no	
	25	25	25	Quad Flash 150FPM Rotate CW	no	
7	26	26	26	Triple Flash 75FPM Alt Up-Dn Ph1	yes	S
	27	27	27	Triple Flash 75FPM Alt Up-Dn Ph2	yes	S
	28	28	28	Triple Flash 75FPM Rotate CCW	no	
	29	29	29	Triple Flash 75FPM Rotate CW	no	
8	30	30	30	Quint Flash 150FPM Alt Up-Dn Ph1	yes	S
	31	31	31	Quint Flash 150FPM Alt Up-Dn Ph2	yes	S
	32	32	32	Quint Flash 150FPM Rotate CCW	no	
	33	33	33	Quint Flash 150FPM Rotate CW	no	
9	34	34	34	Steady - Single	no	
10	35	35	35	Modulation	no	
11	36	36	36	2 Double Flash, 2 Triple Flash Alt.	no	
12	37	37	37	4 Single Flash, 2 Quad Flash Alt.	no	
13	38	38	38	Steady Burn	no	

## Troubleshooting:

The XTP series light head has been thoroughly factory tested. If any of the the device functions fail, please check the following:

1. Be sure the power source is activated, then check all connections both positive and ground at the light head (to assure no open or shorted circuits).
2. Permanently connecting the Blue programming wire to ground will disable the light head, no matter what the programmed flash pattern.
3. If the Dim function does not operate, verify the Blue wire is connected to positive.
4. If the sync function is not being used and the light head is functioning erratically, verify the Yellow wire is not connected to positive or ground.

## Replacement Parts and Accessories:

Part/Accs	XTP4DS
Bezel Black Plastic	T51877
Bezel Chrome Plastic	250-04228-00
Mtg Grommet Rubber	T51881
Mtg Gasket Foam	T51889

### 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.**

### Exclusion of Other Warranties:

MANUFACTURER MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED. THE IMPLIED WARRANTIES FOR MERCHANTABILITY, QUALITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, USAGE OR TRADE PRACTICE ARE HEREBY EXCLUDED AND SHALL NOT APPLY TO THE PRODUCT AND ARE HEREBY DISCLAIMED, EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW. ORAL STATEMENTS OR REPRESENTATIONS ABOUT THE PRODUCT DO NOT CONSTITUTE WARRANTIES.

### Remedies and Limitation of Liability:

MANUFACTURER'S SOLE LIABILITY AND BUYER'S EXCLUSIVE REMEDY IN CONTRACT, TORT (INCLUDING NEGLIGENCE), OR UNDER ANY OTHER THEORY AGAINST MANUFACTURER REGARDING THE PRODUCT AND ITS USE SHALL BE, AT MANUFACTURER'S DISCRETION, THE REPLACEMENT OR REPAIR OF THE PRODUCT, OR THE REFUND OF THE PURCHASE PRICE PAID BY BUYER FOR NON-CONFORMING PRODUCT. IN NO EVENT SHALL MANUFACTURER'S LIABILITY ARISING OUT OF THIS LIMITED WARRANTY OR ANY OTHER CLAIM RELATED TO THE MANUFACTURER'S PRODUCTS EXCEED THE AMOUNT PAID FOR THE PRODUCT BY BUYER AT THE TIME OF THE ORIGINAL PURCHASE. IN NO EVENT SHALL MANUFACTURER BE LIABLE FOR LOST PROFITS, THE COST OF SUBSTITUTE EQUIPMENT OR LABOR, PROPERTY DAMAGE, OR OTHER SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES BASED UPON ANY CLAIM FOR BREACH OF CONTRACT, IMPROPER INSTALLATION, NEGLIGENCE, OR OTHER CLAIM, EVEN IF MANUFACTURER OR A MANUFACTURER'S REPRESENTATIVE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. MANUFACTURER SHALL HAVE NO FURTHER OBLIGATION OR LIABILITY WITH RESPECT TO THE PRODUCT OR ITS SALE, OPERATION AND USE, AND MANUFACTURER NEITHER ASSUMES NOR AUTHORIZES THE ASSUMPTION OF ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH SUCH PRODUCT.

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.



10986 North Warson Road  
St. Louis, MO 63114

**Customer Service**

(314) 426-2700

c3\_tech\_support@code3esg.com

www.code3esg.com

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# Installation and Operation Instructions

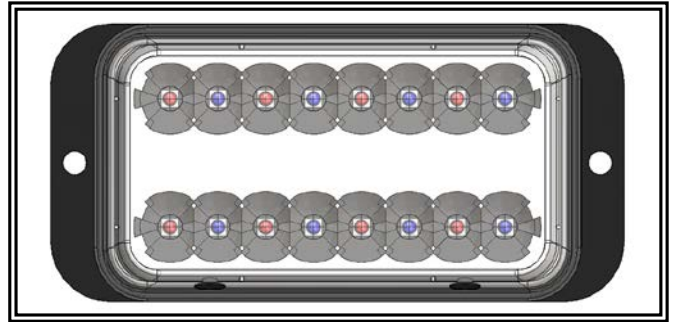
## XTP SERIES LIGHT HEADS

### Dual Stack Multi Colors

#### Introduction:

CODE3 XTP 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 a high degree of environmental and vibration protection.

Additional benefits include low current draw, a long and maintenance free service life with reliable solid-state operation. LED heads can be controlled by conventional switches or relays and can also be synchronized to flash with other compatible CODE3 synchronizing LED products.



**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 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 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 s/he can operate the system without losing eye contact with the roadway.
5. 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.
6. 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 your responsibility to be sure you can proceed safely before entering an intersection, drive against traffic, respond at a high rate of speed, or walk on or around traffic lanes.
7. 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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#### Operation Environment:

Ambient Temperature: -40 to 70°C (-40 to 177°F)

#### Specifications:

Light Head Model	XTP4-Dual Stack MC
Input Voltage	12-24VDC
Work Current	1.0A Max @ DC12V or 24V
Physical H x W x L	0.62 in x 2.39 in x 4.72 in 1.58 cm x 6.07 cm x 11.98 cm
Weight	0.210 lb (0.10 Kg)
Available Dual Colors	Amb/Wht, Blue/Amb, Blue/Wht, Red/Amb, Red/Blue, Red/Wht

#### Package Contains:

1	Light Head
2	Screws
1	Installation Guide
1	Mounting Gasket
1	Bezel

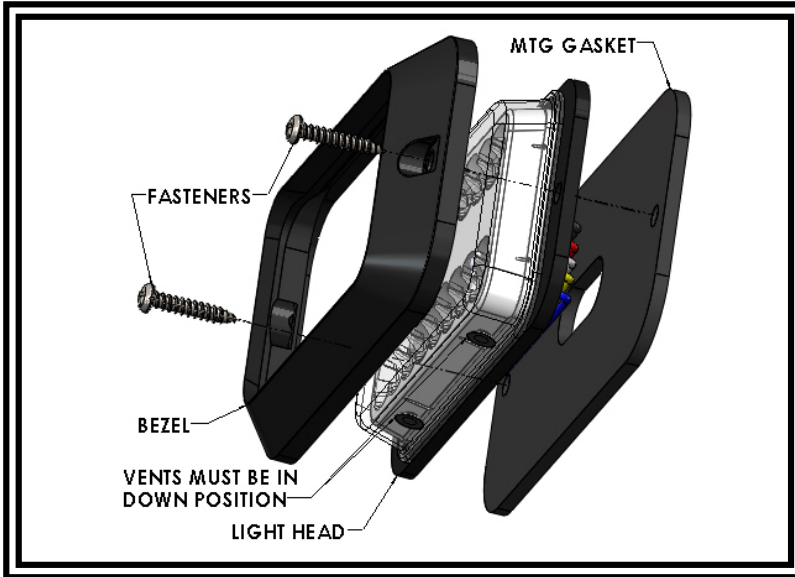
## Installation and Mounting:

To mount the light head, use the bezel as a template to mark the mounting holes. The supplied self-tapping #6 x 0.75" screws typically use 0.125" diameter holes but this may vary depending on the type of material and the thickness being tapped. Provide a minimum 0.50" diameter hole for the wires. Grommet the hole if possible and seal with RTV sealant.

### It is important to note:

The light head has 2 small round holes covered with vent membrane that must face downward when mounting the light head.

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



## Wiring Instructions:

RED: Positive, (5A fuse required)

WHITE: Positive, (5A fuse required)

BLACK: Negative

BLUE: Pattern select to negative -- Dim control to positive

YELLOW: Synchronized Function (Up to 32 units can be Synchronized)

**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.

## Notes on Choosing Flash Patterns:

A variety of flash patterns may be chosen for the light head. The Dual Stack multi color light heads are split horizontally and vertically providing 4 separate lighted areas in each light head that may be chosen to operate alternately for patterns that flash using various color combinations. This allows patterns that flash up-down, right-left, diagonally, and to rotate. The areas are denoted as follows:

Primary color - upper level colors 1&3 and lower level colors 5&7 (color1 and color5 on the left side and color3 and color7 on the right, typically the same color on each level)

Secondary color - upper level colors 2&4 and lower level colors 6&8 (color2 and color6 on the left side and color4 and color8 on the right, typically the same color on each level).

A separate flash pattern may be assigned for the power wires red, white, or both connected together and the pattern operated depending which wire or wires are energized. Power the red or the white wires (or both together) then use the pattern select blue wire (touch to ground) to select the chosen flash pattern from the list below.

Note: The red and white wires powered together have patterns that always use both colors (except Pattern #1 - Default Steady Burn).

See the legend at the top of the pattern list for compliance with various standards.

## Pattern Select Operation:

The light head flash pattern may be changed by touching the Blue wire to ground for the following intervals (while the light head is flashing):

NOTE: The blue wire must be disconnected from any voltage when not activating DIM nor changing flash patterns.

- When the light head signal becomes steady, disconnect the Blue wire and the flash pattern will increment by one pattern.

- When the light head signal becomes steady, then goes off, disconnect the Blue wire and the flash pattern will decrement by one pattern.

- When the light head signal becomes steady, then goes off, then becomes steady again, disconnect the Blue wire and the flash pattern will reset to the factory default pattern.

- When the light head signal becomes steady, then goes off, then becomes steady again, then goes off again, disconnect the Blue wire and the flash pattern will become set to the steady burn mode.

## Notes on Dim Control:

The light head intensity may be reduced if necessary. The Blue wire when connected to positive will reduce the intensity to 25% for SAE patterns.

NOTE: The blue wire must be disconnected from any voltage when not activating DIM nor changing flash patterns.

## Notes on Synchronizing and Phase (Sync Ph):

(Up to 32 light heads can be Synchronized by connecting their yellow wires).

When the yellow wires of the light heads are connected together, the group with Ph1 flash patterns will flash simultaneously. If the light heads in the second group are set to Ph2 flash patterns, they will flash alternately with the first group. To simplify the set-up of a synchronized installation, the following process is recommended:

- Before connecting the yellow wires together, choose the desired flash pattern for each light head. **The patterns chosen must have the same flash rate for all light heads intended to be synchronized. (By definition a 75fpm light head will not sync with at 120fpm light head)** To avoid confusion set each light head individually to the chosen flash pattern using the blue pattern select wire. Ph1 light heads will alternate with Ph2 light heads and simultaneously with all other light heads set to Ph1. Ph2 light heads flash simultaneously with all other light heads set to Ph2. It is also strongly recommended that the same style of flash pattern be used on all heads to produce the most effective warning pattern.
- Connect the yellow synchronization wires together and check that the light heads are flashing in a synchronized manner as expected. If a pattern for one light head appears to be wrong, keep the yellow wire connected and use the blue pattern select wire to cycle forward or backward for that individual light head until the correct pattern is selected. Once that is completed verify the light head is synchronized correctly.



## Flash Patterns XTP4DS Multi Color:

For patterns that meet SAE J595 Class1 requirements for Red, Blue, Amber, and White, see **S** in chart below!

For patterns that meet California Title 13 Class B requirements for Red, Blue, and Amber, see **C** in chart below!

PATTERN GROUP	PATTERN NO	FLASH PATTERN RED WIRE LED Primary Color UP 1&3, DN 5&7	SYNC	Complies with	FLASH PATTERN WHITE WIRE LED Secondary Color UP 2&4, DN 6&8	SYNC	Complies with
0	1-Default	Cycle Flash Color 1&3&5&7 only	no		Cycle Flash Color 2&4&6&8 only	no	
1	2	Single 75FPM Ph1 Color 1&3&5&7 only	yes	SC	Single 75FPM Ph1 Color 2&4&6&8 only	yes	SC
	3	Single 75FPM Ph2 Color 1&3&5&7 only	yes	SC	Single 75FPM Ph2 Color 2&4&6&8 only	yes	SC
	4	Single 75FPM Alt 1&3&5&7 with 2&4&6&8	yes	SC	Single 75FPM Alt 2&4&6&8 with 1&3&5&7	yes	SC
	5	Single 75FPM Up-Dn 1&3 Alt 5&7 only	yes	S	Single 75FPM Up-Dn 2&4 Alt 6&8 only	yes	S
	6	Single 75FPM Up-Dn 1&3 Alt 6&8 only	yes	S	Single 75FPM Up-Dn 5&7 Alt 2&4 only	yes	S
	7	Single 75FPM Rt-Lt 1&5 Alt 3&7	yes	S	Single 75FPM Rt-Lt 2&6 Alt 4&8	yes	S
	8	Single 75FPM Diagonal 1&7 Alt 3&5	yes	S	Single 75FPM Diagonal 2&8 Alt 4&6	yes	S
	9	Single 75FPM CCW 1&3&5&7 only	no		Single 75FPM CCW 2&4&6&8 only	no	
	10	Single 75FPM CW 1&3&5&7 only	no		Single 75FPM CW 2&4&6&8 only	no	
2	11	Single 375FPM Ph1 Color 1&3&5&7 only	yes		Single 375FPM Ph1 Color 2&4&6&8 only	yes	
	12	Single 375FPM Ph2 Color 1&3&5&7 only	yes		Single 375FPM Ph2 Color 2&4&6&8 only	yes	
	13	Single 375FPM Alt 1&3&5&7 with 2&4&6&8	yes		Single 375FPM Alt 2&4&6&8 with 1&3&5&7	yes	
	14	Single 375FPM Up-Dn 1&3 Alt 5&7 only	yes		Single 375FPM Up-Dn 2&4 Alt 6&8 only	yes	
	15	Single 375FPM Up-Dn 1&3 Alt 6&8 only	yes		Single 375FPM Up-Dn 5&7 Alt 2&4 only	yes	
	16	Single 375FPM Rt-Lt 1&5 Alt 3&7	yes		Single 375FPM Rt-Lt 2&6 Alt 4&8	yes	
	17	Single 375FPM Diagonal 1&7 Alt 3&5	yes		Single 375FPM Diagonal 2&8 Alt 4&6	yes	
	18	Single 375FPM CCW 1&3&5&7 only	no		Single 375FPM CCW 2&4&6&8 only	no	
	19	Single 375FPM CW 1&3&5&7 only	no		Single 375FPM CW 2&4&6&8 only	no	
3	20	Dbl 75FPM Ph1 Color 1&3&5&7 only	yes	SC	Dbl 75FPM Ph1 Color 2&4&6&8 only	yes	SC
	21	Dbl 75FPM Ph2 Color 1&3&5&7 only	yes	SC	Dbl 75FPM Ph2 Color 2&4&6&8 only	yes	SC
	22	Dbl 75FPM Alt 1&3&5&7 with 2&4&6&8	yes	SC	Dbl 75FPM Alt 2&4&6&8 with 1&3&5&7	yes	SC
	23	Dbl 75FPM Up-Dn 1&3 Alt 5&7 only	yes	S	Dbl 75FPM Up-Dn 2&4 Alt 6&8 only	yes	S
	24	Dbl 75FPM Up-Dn 1&3 Alt 6&8 only	yes	S	Dbl 75FPM Up-Dn 5&7 Alt 2&4 only	yes	S
	25	Dbl 75FPM Rt-Lt 1&5 Alt 3&7	yes	S	Dbl 75FPM Rt-Lt 2&6 Alt 4&8	yes	S
	26	Dbl 75FPM Diagonal 1&7 Alt 3&5	yes	S	Dbl 75FPM Diagonal 2&8 Alt 4&6	yes	S
	27	Dbl 75FPM CCW 1&3&5&7 only	no		Dbl 75FPM CCW 2&4&6&8 only	no	
	28	Dbl 75FPM CW 1&3&5&7 only	no		Dbl 75FPM CW 2&4&6&8 only	no	
4	29	Dbl 120FPM Ph1 Color 1&3&5&7 only	yes	S	Dbl 120FPM Ph1 Color 2&4&6&8 only	yes	S
	30	Dbl 120FPM Ph2 Color 1&3&5&7 only	yes	S	Dbl 120FPM Ph2 Color 2&4&6&8 only	yes	S
	31	Dbl 120FPM Alt 1&3&5&7 with 2&4&6&8	yes	S	Dbl 120FPM Alt 2&4&6&8 with 1&3&5&7	yes	S
	32	Dbl 120FPM Up-Dn 1&3 Alt 5&7 only	yes	S	Dbl 120FPM Up-Dn 2&4 Alt 6&8 only	yes	S
	33	Dbl 120FPM Up-Dn 1&3 Alt 6&8 only	yes	S	Dbl 120FPM Up-Dn 5&7 Alt 2&4 only	yes	S
	34	Dbl 120FPM Rt-Lt 1&5 Alt 3&7	yes	S	Dbl 120FPM Rt-Lt 2&6 Alt 4&8	yes	S
	35	Dbl 120FPM Diagonal 1&7 Alt 3&5	yes	S	Dbl 120FPM Diagonal 2&8 Alt 4&6	yes	S
	36	Dbl 120FPM CCW 1&3&5&7 only	no		Dbl 120FPM CCW 2&4&6&8 only	no	
	37	Dbl 120FPM CW 1&3&5&7 only	no		Dbl 120FPM CW 2&4&6&8 only	no	
5	38	Trpl 75FPM Ph1 Color 1&3&5&7 only	yes	SC	Trpl 75FPM Ph1 Color 2&4&6&8 only	yes	S
	39	Trpl 75FPM Ph2 Color 1&3&5&7 only	yes	SC	Trpl 75FPM Ph2 Color 2&4&6&8 only	yes	S
	40	Trpl 75FPM Alt 1&3&5&7 with 2&4&6&8	yes	SC	Trpl 75FPM Alt 2&4&6&8 with 1&3&5&7	yes	S
	41	Trpl 75FPM Up-Dn 1&3 Alt 5&7 only	yes	S	Trpl 75FPM Up-Dn 2&4 Alt 6&8 only	yes	S
	42	Trpl 75FPM Up-Dn 1&3 Alt 6&8 only	yes	S	Trpl 75FPM Up-Dn 5&7 Alt 2&4 only	yes	S
	43	Trpl 75FPM Rt-Lt 1&5 Alt 3&7	yes	S	Trpl 75FPM Rt-Lt 2&6 Alt 4&8	yes	S
	44	Trpl 75FPM Diagonal 1&7 Alt 3&5	yes	S	Trpl 75FPM Diagonal 2&8 Alt 4&6	yes	S
	45	Trpl 75FPM CCW 1&3&5&7 only	no		Trpl 75FPM CCW 2&4&6&8 only	no	
	46	Trpl 75FPM CW 1&3&5&7 only	no		Trpl 75FPM CW 2&4&6&8 only	no	
6	47	Quad 75FPM Ph1 Color 1&3&5&7 only	yes	SC	Quad 75FPM Ph1 Color 2&4&6&8 only	yes	SC
	48	Quad 75FPM Ph2 Color 1&3&5&7 only	yes	SC	Quad 75FPM Ph2 Color 2&4&6&8 only	yes	SC
	49	Quad 75FPM Alt 1&3&5&7 with 2&4&6&8	yes	SC	Quad 75FPM Alt 2&4&6&8 with 1&3&5&7	yes	SC
	50	Quad 75FPM Up-Dn 1&3 Alt 5&7 only	yes	S	Quad 75FPM Up-Dn 2&4 Alt 6&8 only	yes	S
	51	Quad 75FPM Up-Dn 1&3 Alt 6&8 only	yes	S	Quad 75FPM Up-Dn 5&7 Alt 2&4 only	yes	S
	52	Quad 75FPM Rt-Lt 1&5 Alt 3&7	yes	S	Quad 75FPM Rt-Lt 2&6 Alt 4&8	yes	S
	53	Quad 75FPM Diagonal 1&7 Alt 3&5	yes	S	Quad 75FPM Diagonal 2&8 Alt 4&6	yes	S
	54	Quad 75FPM CCW 1&3&5&7 only	no		Quad 75FPM CCW 2&4&6&8 only	no	
	55	Quad 75FPM CW 1&3&5&7 only	no		Quad 75FPM CW 2&4&6&8 only	no	
7	56	Quad 150FPM Ph1 Color 1&3&5&7 only	yes	S	Quad 150FPM Ph1 Color 2&4&6&8 only	yes	S
	57	Quad 150FPM Ph2 Color 1&3&5&7 only	yes	S	Quad 150FPM Ph2 Color 2&4&6&8 only	yes	S
	58	Quad 150FPM Alt 1&3&5&7 with 2&4&6&8	yes	S	Quad 150FPM Alt 2&4&6&8 with 1&3&5&7	yes	S
	59	Quad 150FPM Up-Dn 1&3 Alt 5&7 only	yes	S	Quad 150FPM Up-Dn 2&4 Alt 6&8 only	yes	S
	60	Quad 150FPM Up-Dn 1&3 Alt 6&8 only	yes	S	Quad 150FPM Up-Dn 5&7 Alt 2&4 only	yes	S
	61	Quad 150FPM Rt-Lt 1&5 Alt 3&7	yes	S	Quad 150FPM Rt-Lt 2&6 Alt 4&8	yes	S
	62	Quad 150FPM Diagonal 1&7 Alt 3&5	yes	S	Quad 150FPM Diagonal 2&8 Alt 4&6	yes	S
	63	Quad 150FPM CCW 1&3&5&7 only	no		Quad 150FPM CCW 2&4&6&8 only	no	
	64	Quad 150FPM CW 1&3&5&7 only	no		Quad 150FPM CW 2&4&6&8 only	no	
8	65	Modulation Flash Color 1&3&5&7 only	no		Modulation Flash Color 2&4&6&8 only	no	
9	66	Modulation Flash Up-Dn 1&3 Alt 5&7 only	no		Modulation Flash Up-Dn 2&4 Alt 6&8 only	no	
10	67	Modulation Flash Rt-Lt 1&5 Alt 3&7	no		Modulation Flash Rt-Lt 2&6 Alt 4&8	no	
11	68	Modulation Flash CCW 1&3&5&7 only	no		Modulation Flash CCW 2&4&6&8 only	no	
12	69	Modulation Flash CW 1&3&5&7 only	no		Modulation Flash CW 2&4&6&8 only	no	
13	70	Steady Burn 1&3&5&7 only	no		Steady Burn 2&4&6&8 only	no	

PATTERN GROUP	PATTERN NO	FLASH PATTERN RED & WHITE WIRE (together) LED Primary Color UP 1&3, DN 5&7 LED Secondary Color UP 2&4, DN 6&8	SYNC	Complies with
0	1-Default	Steady Burn Color 1&3&5&7 only	no	
1	2	Single 75FPM Rt-Lt 1&5 Alt 4&8	yes	S
	3	Single 75FPM Rt-Lt 3&7 Alt 2&6	yes	S
	4	Single 75FPM Diagonal 1&7 Alt 4&6	yes	S
	5	Single 75FPM Diagonal 3&5 Alt 2&8	yes	S
	6	Single 75FPM CCW 1&3&5&7 Alt 2&4&6&8	no	
	7	Single 75FPM CCW 2&4&6&8 Alt 1&3&5&7	no	
	8	Single 75FPM CW 1&3&5&7 Alt 2&4&6&8	no	
	9	Single 75FPM CW 2&4&6&8 Alt 1&3&5&7	no	
2	10	Single 375FPM Rt-Lt 1&5 Alt 4&8	yes	
	11	Single 375FPM Rt-Lt 3&7 Alt 2&6	yes	
	12	Single 375FPM Diagonal 1&7 Alt 4&6	yes	
	13	Single 375FPM Diagonal 3&5 Alt 2&8	yes	
	14	Single 375FPM CCW 1&3&5&7 Alt 2&4&6&8	no	
	15	Single 375FPM CCW 2&4&6&8 Alt 1&3&5&7	no	
	16	Single 375FPM CW 1&3&5&7 Alt 2&4&6&8	no	
	17	Single 375FPM CW 2&4&6&8 Alt 1&3&5&7	no	
3	18	Dbl 75FPM Rt-Lt 1&5 Alt 4&8	yes	S
	19	Dbl 75FPM Rt-Lt 3&7 Alt 2&6	yes	S
	20	Dbl 75FPM Diagonal 1&7 Alt 4&6	yes	S
	21	Dbl 75FPM Diagonal 3&5 Alt 2&8	yes	S
	22	Dbl 75FPM CCW 1&3&5&7 Alt 2&4&6&8	no	
	23	Dbl 75FPM CCW 2&4&6&8 Alt 1&3&5&7	no	
	24	Dbl 75FPM CW 1&3&5&7 Alt 2&4&6&8	no	
	25	Dbl 75FPM CW 2&4&6&8 Alt 1&3&5&7	no	
4	26	Dbl 120FPM Rt-Lt 1&5 Alt 4&8	yes	S
	27	Dbl 120FPM Rt-Lt 3&7 Alt 2&6	yes	S
	28	Dbl 120FPM Diagonal 1&7 Alt 4&6	yes	S
	29	Dbl 120FPM Diagonal 3&5 Alt 2&8	yes	S
	30	Dbl 120FPM CCW 1&3&5&7 Alt 2&4&6&8	no	
	31	Dbl 120FPM CCW 2&4&6&8 Alt 1&3&5&7	no	
	32	Dbl 120FPM CW 1&3&5&7 Alt 2&4&6&8	no	
	33	Dbl 120FPM CW 2&4&6&8 Alt 1&3&5&7	no	
5	34	Trpl 75FPM Rt-Lt 1&5 Alt 4&8	yes	S
	35	Trpl 75FPM Rt-Lt 3&7 Alt 2&6	yes	S
	36	Trpl 75FPM Diagonal 1&7 Alt 4&6	yes	S
	37	Trpl 75FPM Diagonal 3&5 Alt 2&8	yes	S
	38	Trpl 75FPM CCW 1&3&5&7 Alt 2&4&6&8	no	
	39	Trpl 75FPM CCW 2&4&6&8 Alt 1&3&5&7	no	
	40	Trpl 75FPM CW 1&3&5&7 Alt 2&4&6&8	no	
	41	Trpl 75FPM CW 2&4&6&8 Alt 1&3&5&7	no	
6	42	Quad 75FPM Rt-Lt 1&5 Alt 4&8	yes	S
	43	Quad 75FPM Rt-Lt 3&7 Alt 2&6	yes	S
	44	Quad 75FPM Diagonal 1&7 Alt 4&6	yes	S
	45	Quad 75FPM Diagonal 3&5 Alt 2&8	yes	S
	46	Quad 75FPM CCW 1&3&5&7 Alt 2&4&6&8	no	
	47	Quad 75FPM CCW 2&4&6&8 Alt 1&3&5&7	no	
	48	Quad 75FPM CW 1&3&5&7 Alt 2&4&6&8	no	
	49	Quad 75FPM CW 2&4&6&8 Alt 1&3&5&7	no	
7	50	Quad 150FPM Rt-Lt 1&5 Alt 4&8	yes	S
	51	Quad 150FPM Rt-Lt 3&7 Alt 2&6	yes	S
	52	Quad 150FPM Diagonal 1&7 Alt 4&6	yes	S
	53	Quad 150FPM Diagonal 3&5 Alt 2&8	yes	S
	54	Quad 150FPM CCW 1&3&5&7 Alt 2&4&6&8	no	
	55	Quad 150FPM CCW 2&4&6&8 Alt 1&3&5&7	no	
	56	Quad 150FPM CW 1&3&5&7 Alt 2&4&6&8	no	
	57	Quad 150FPM CW 2&4&6&8 Alt 1&3&5&7	no	

## Troubleshooting:

The XTP series light head has been thoroughly factory tested. If any of the the device functions fail, please check the following:

1. Be sure the power source is activated, then check all connections both positive and ground at the light head (to assure no open or shorted circuits).
2. Permanently connecting the Blue programming wire to ground will disable the light head, no matter what the programmed flash pattern.
3. If the Dim function does not operate, verify the Blue wire is connected to positive.
4. If the sync function is not being used and the light head is functioning erratically, verify the Yellow wire is not connected to positive or ground.

## Replacement Parts and Accessories:

Part/Accs	XTP4DS-MC
Bezel Black Plastic	T51877
Bezel Chrome Plastic	250-04228-00
Mtg Grommet Rubber	T51881
Mtg Gasket Foam	T51889

### 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.



10986 North Warson Road  
St. Louis, MO 63114

**Customer Service**

(314) 426-2700

c3\_tech\_support@code3esg.com

www.code3esg.com

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www.eccosafetygroup.com