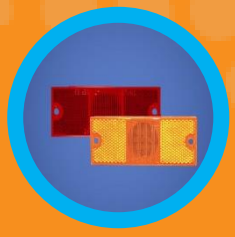
LED Lighting for Transit Buses, Motor Coaches, School and Shuttle Buses

Dialight

When safety counts.

More than 20 years of providing LED solutions for heavy duty bus applications

Signal Lights



Marker Lights

Head Lights

Auxiliary Lights

Dialight

The Leader in LED Bus Lights

LED Signal Lights

18 Series

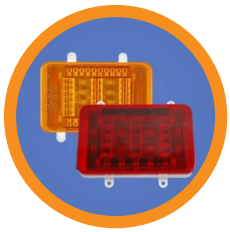
- 4.8” x 1.95”
- 4 Mounting screws 1.19 “x 3.875” pattern
- 12 VDC and 24 VDC
- Auxiliary side turn lamp
- Amber

48 Series

- 4” Round
- Grommet or flange mount
- Grommet – 94001A
- 12 VDC and 24 VDC
- Front turn signal
- Amber

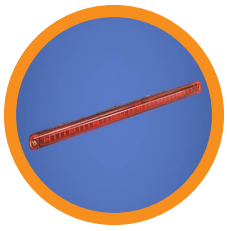
69 Series

- 2” x 6” Oval
- Grommet or flange mount
- Grommet - 96001A
- 12 VDC and 24 VDC
- Front turn signal
- Amber



80 Series

- 4.1” x 6.4”
- 4 Mounting screws tabs
- 12 VDC and 24 VDC
- S/T/T and rear turn signals
- Red, Amber



87 Series

- 18.5” x 1”,
- 2 screws on 17.25” centers
- Anodized metal base
- 12 VDC and 24 VDC
- Center High Mount Stop Lamp
- Red

46 Series

- 4.0” Round
- Grommet or Flange Mount
- Grommet - 94001A
- 12 VDC and 24 VDC
- S/T/T, reverse, and turn signals
- Red, White, Amber

68 Series

- 2” x 6” Oval
- Grommet or flange mount
- Grommet - 96001A
- 12 VDC and 24 VDC
- S/T/T, reverse, and turn signals
- Red, White, Amber

70 / 71 Series

- 7” round
- 4 screws on 6.3” diameter
- 12 VDC and 24 VDC
- S/T/T, reverse, and rear turn
- Red, White, Amber

84 Series

- 4.6” x 5.5”,
- Rear mounting bracket w/2 screw posts
- 12 VDC and 24 VDC
- Red, Amber, White

1501 Route 34 South
Farmingdale, NJ 07727
Tel. 732-751-3119
Fax. 732-751-5778

www.dialight.com

LED Auxiliary Turn Signal Mounting Recommendations (when no guard is used)

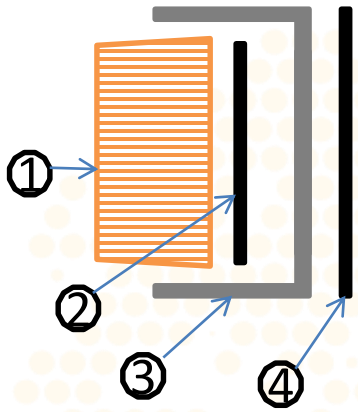
- Mounting plane for the light must be flat and not rounded
- If not provided with the light, select appropriate attachment screw such that the screw threads clear the through holes in the light
- If the light has a recessed area for the screw head, ensure the screw head has clearance between the side walls of the recess and the screw head
- For lights with gaskets position the gasket behind the light to compensate for minor surface irregularities and to seal the light to vehicle interface.
- Tighten screws to a torque of 12 to 14 in-lbs.
- Caution: Loctite is not recommended for use when installing the lights as Loctite contains chemical ingredients that are not compatible with polycarbonate materials
- Caution: Do not over-torque the screws when installing. Over- torqueing of the screws may add stress to the light that could make the light susceptible to failure from cleaning soaps that would attack the light at the stressed area resulting in potential cracking of the light.

LED Auxiliary Turn Signal Mounting Recommendations (when used with optional guard)

Note: the use of an additional foam gasket and guard are optional but when the guard is used it must be used in conjunction with the foam gasket supplies with the light

- Mounting plane for the light must be flat and not rounded
- If not provided with the light, select appropriate attachment screw such that the screw threads clear the through holes in the light
- If the light has a recessed area for the screw head, ensure the screw head has clearance between the side walls of the recess and the screw head
- Position light (1) and gasket (2)into the guard (3)
- Place gasket that additional gasket (4)between the back of the guard and the bus
- Mount the marker light with guard / gaskets to the bus positioning a nylon washer underneath the screw head so that the screw head does not dig into the polycarbonate lens.
- Mounting torque should be limited to 12 -14 in-lbs.
- Caution: Loctite is not recommended for use when installing the lights as Loctite contains chemical ingredients that are not compatible with polycarbonate materials
- Caution: Do not over-torque the screws when installing. Over- torqueing of the screws may add stress to the light that could make the light susceptible to failure from cleaning soaps that would attack the light at the stressed area resulting in potential cracking of the light.

Item	Description
1	Auxiliary Turn Signal Light
2	Foam Gasket
3	Light Guard
4	Additional Foam Gasket



18 Series – Aux. Side Turn
LED Vehicle Lighting

On when it counts.

Application

- Auxiliary Side Turn (2 wire)
- Auxiliary Side Turn / Marker (3 wire)

Features & Benefits

- Integral wiring
- Low profile
- Optional armor guards
- Reverse polarity protected
- Maintenance saving
- Lamp guards available

Mechanical Information

Mounting Hole Size	1.84” (46.7 mm)
Mounting Torque	12 – 14 in-lbs.

Electrical Specification

Nominal Voltage	12 VDC and 24 VDC
Typical Current	2 wire lights 12 VDC – 120 mA @ 12 VDC 24 VDC – 90 mA @ 24 VDC 3 wire lights 12 VDC – marker 50 mA, turn 210 mA @ 12 VDC 24 VDC – marker 40 mA turn 175 mA @ 24 VDC

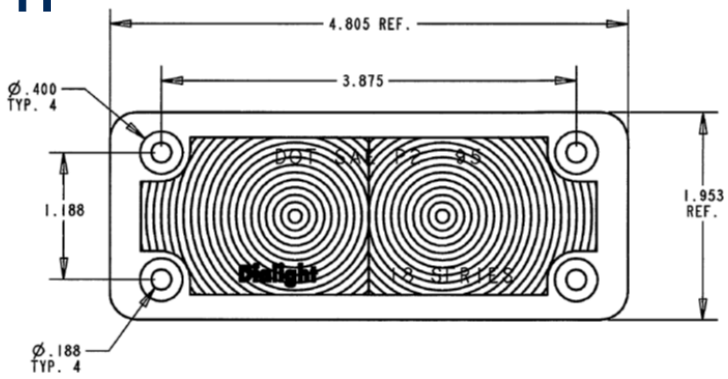
Construction

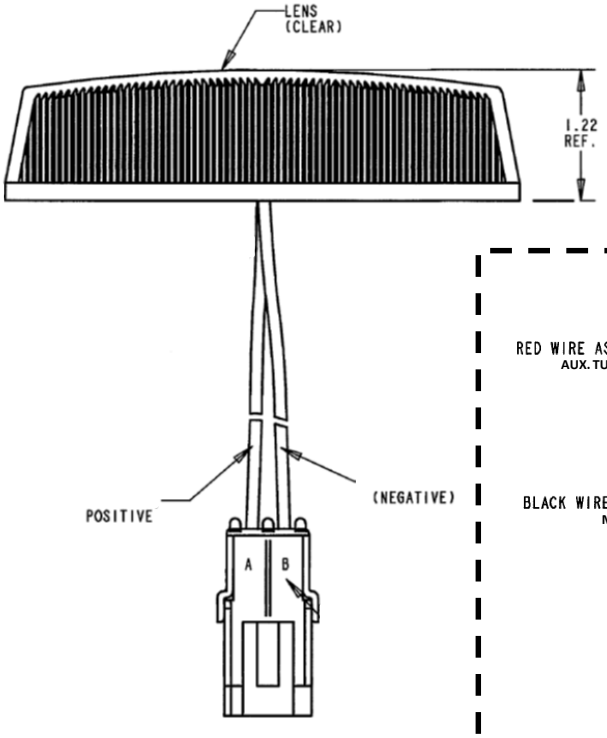
Lens Material	Polycarbonate
Housing material	Polycarbonate
Sealing Method	Vibration Welded
Gasket Material	Closed cell foam
Connector*	Delphi 1201-0973 (2 wire) + to position A – to position B Delphi 1201-0717 (3 wire) Turn – pos. A, marker – pos. B ground – pos. C

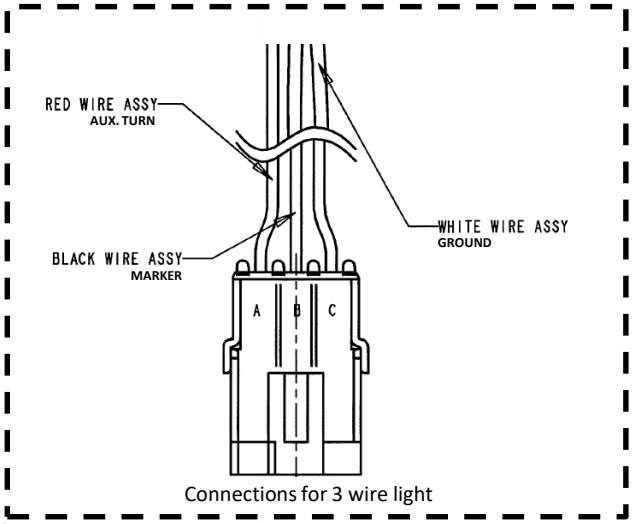
Photometric

Mounting	Horizontal

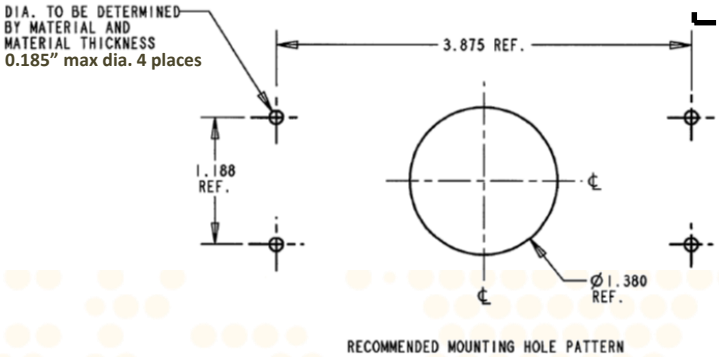
* Consult Dialight for alternate connector options







Connections for 3 wire light



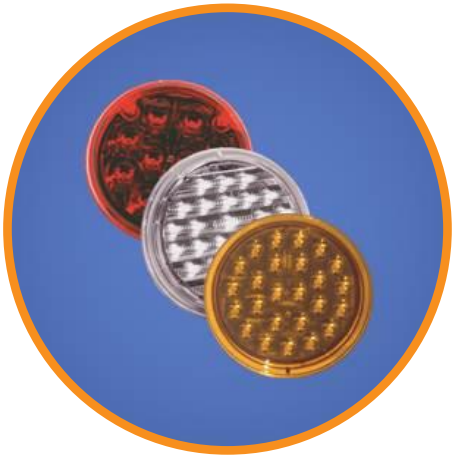
RECOMMENDED MOUNTING HOLE PATTERN

Part Number	# Wires	Function	Voltage
18001AB808	2	Aux. side turn	12 VDC
18001AB807	3	Aux. marker / turn	12 VDC
18011AB811	2	Aux. side turn	24 VDC
18011AB828	3	Aux. marker / turn	24 VDC

46 Series – 4” Round Signal Lights

LED Vehicle Lighting

On when it counts.



Application

- Rear Turn
- Reverse
- Stop / Tail / Turn

Certifications & ratings

- FMVSS 108

Features & Benefits

- Integral wiring
- Potted designs
- Grommet or flange mount
- Reverse polarity protected
- Maintenance saving

Mechanical Information

Mounting Hole Size	4.5”
Mounting Torque	12 – 14 in-lbs. (flange mount)

Electrical Specification

Nominal Voltage	12 VDC and 24 VDC
Typical Current	Amber turn 12 VDC – 420 mA @ 12.8 VDC 24 VDC – 250 mA @ 25 VDC White reverse 12 VDC – 80 mA @ 14 VDC 24 VDC – 65 mA @ 25 VDC Red S/T/T lights 12 VDC – tail 35 mA @ 12.8 VDC, S/T 210 mA @ 12.8 VDC 24 VDC – tail 30 mA @ 25 VDC S/T 130 mA @ 25 VDC

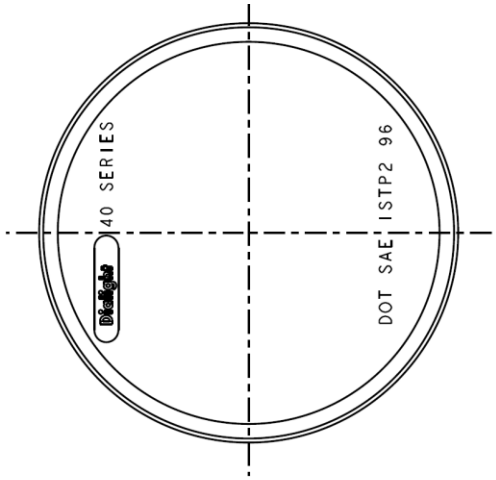
Construction

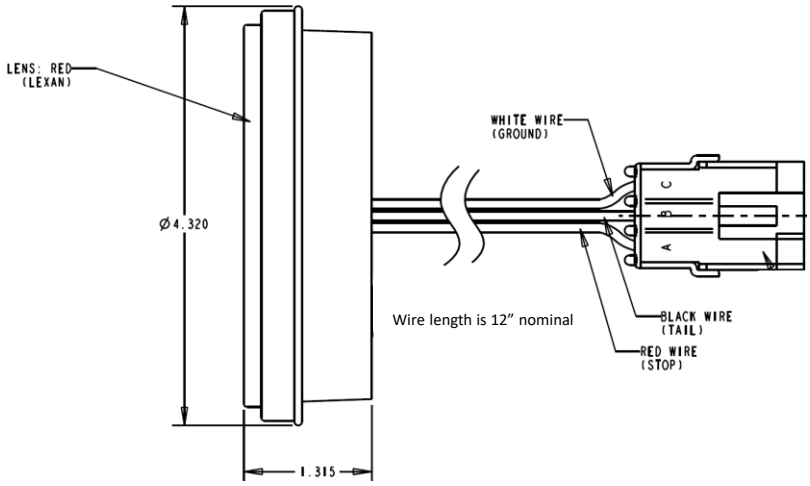
Lens Material	Hard coated polycarbonate
Sealing Method	Potted
Connector*	Delphi 1201-0973 turn / reverse + to position A – to position B Delphi 1201-0717 red S/T/T Stop / Turn – pos. A, Tail – pos. B ground – pos. C

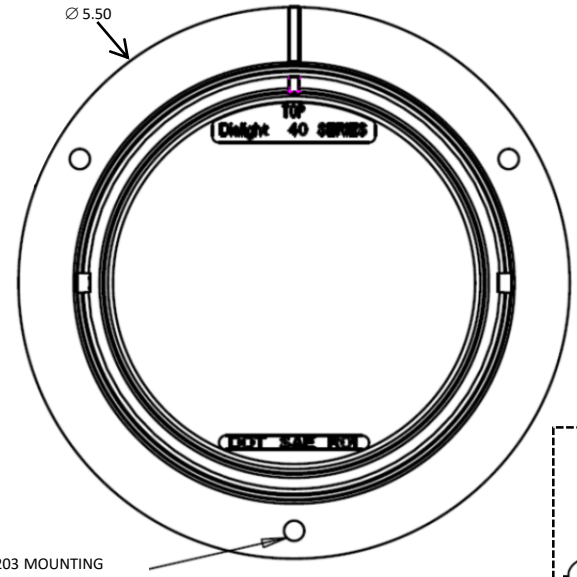
Photometric

FMVSS 108	Rear Turn, Reverse, S/T/T (see table)
Mounting	± 5° Slope

* Consult Dialight for alternate connector options

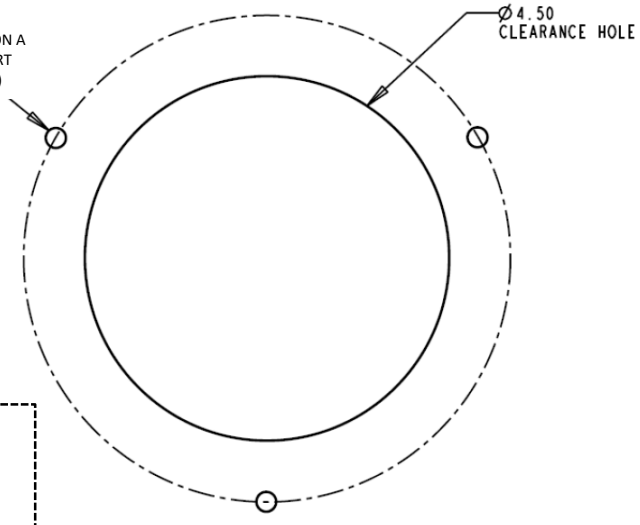




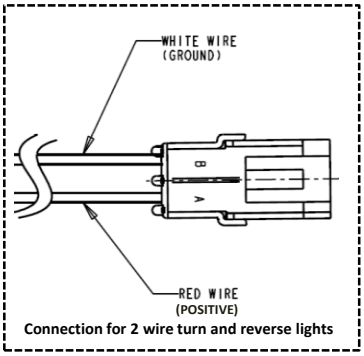


(3) Ø .203 MOUNTING HOLES ON A Ø4.938 BOLT CIRCLE 120° APART

(3) Ø .225 MOUNTING HOLES ON A Ø4.938 BOLT CIRCLE 120° APART (OMIT FOR GROMMET MOUNT)



RECOMMENDED MOUNTING HOLE PATTERN



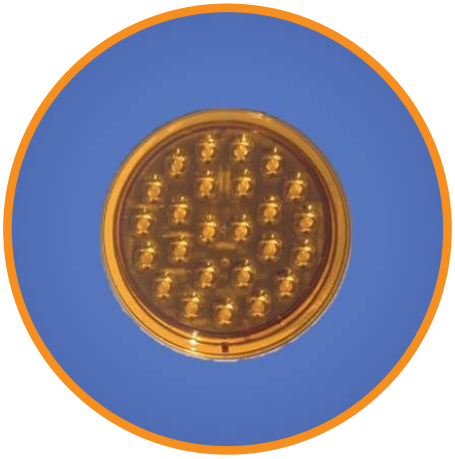
Connection for 2 wire turn and reverse lights

Part Number	Color	Function	Voltage	Mounting	
				Grommet	Black Flanged *
46121AB	Amber	Rear turn	12 VDC	✓	
46121CB	White	Reverse	12 VDC	✓	
46121RB	Red	S/T/T	12 VDC	✓	
46123AB	Amber	Rear turn	24 VDC	✓	
46123CB	White	Reverse	24 VDC	✓	
46123RB	Red	S/T/T	24 VDC	✓	
46261AB	Amber	Rear turn	12 VDC		✓
46261CB	White	Reverse	12 VDC		✓
46261RB	Red	S/T/T	12 VDC		✓
46263AB	Amber	Rear turn	24 VDC		✓
46263CB	White	Reverse	24 VDC		✓
46263RB	Red	S/T/T	24 VDC		✓

*White Flange also available contact Dialight

48 Series – 4” Front Turn Signal
LED Vehicle Lighting

On when it counts.



Application

- Front Turn

Certifications & ratings

- FMVSS 108

Features & Benefits

- Integral wiring
- Potted design
- Grommet or flange mount
- Reverse polarity protected
- Maintenance saving

Mechanical Information

Mounting Hole Size	4.5”
Mounting Torque	12 – 14 in-lbs. (flange mount)

Electrical Specification

Nominal Voltage	12 VDC and 24 VDC
Typical Current	12 VDC – 420 mA @ 12.8 VDC 24 VDC – 290 mA @ 25.6 VDC

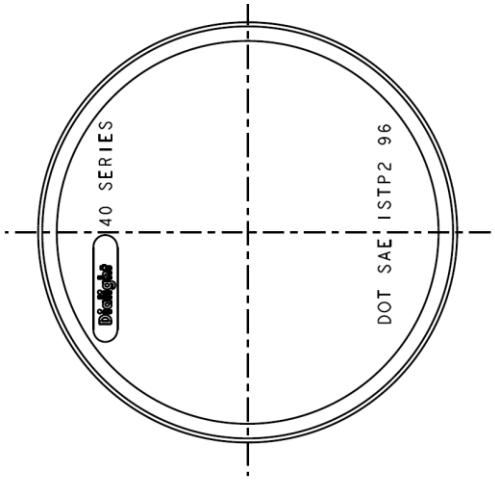
Construction

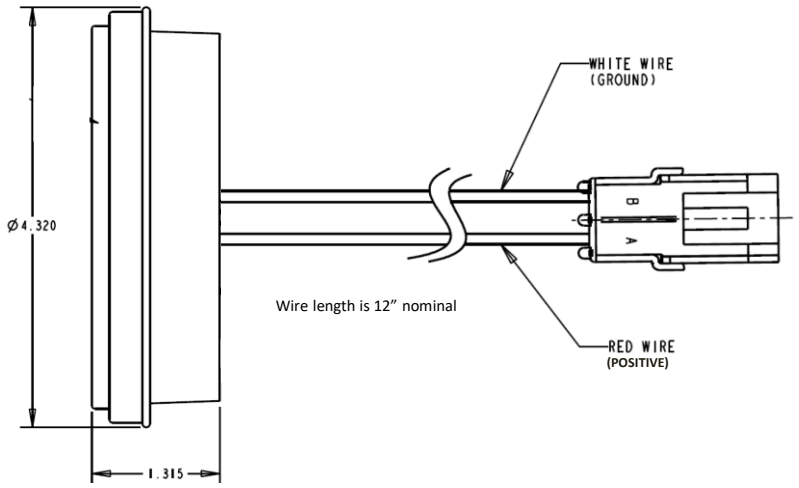
Lens Material	Hard coated polycarbonate
Sealing Method	Potted
Connector*	Delphi 1201-0973 (2 wire) + to position A – to position B

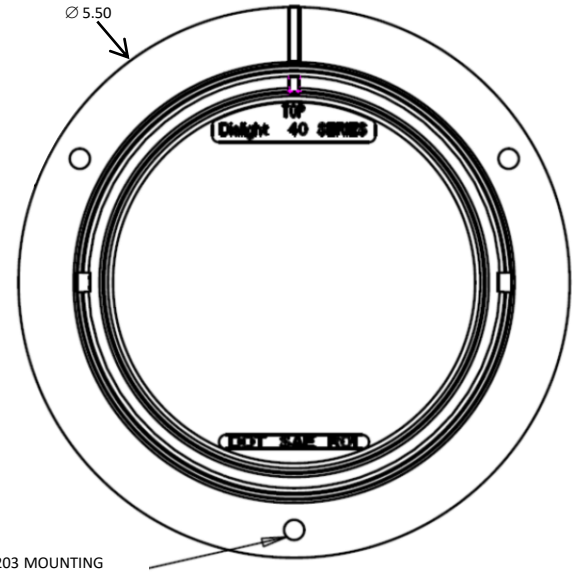
Photometric

FMVSS 108	Front Turn
Mounting	± 5° Slope

* Consult Dialight for alternate connector options

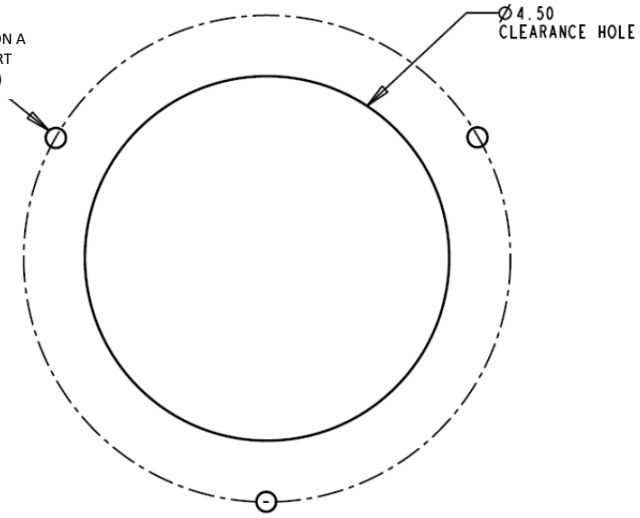






(3) ∅.203 MOUNTING HOLES ON A ∅4.938 BOLT CIRCLE 120° APART

(3) ∅.225 MOUNTING HOLES ON A ∅4.938 BOLT CIRCLE 120° APART (OMIT FOR GROMMET MOUNT)



RECOMMENDED MOUNTING HOLE PATTERN

Part Number	Color	Function	Voltage	Mounting	
				Grommet	Black Flanged*
48121AB	Amber	Front turn	12 VDC	✓	
48123AB	Amber	Front turn	24 VDC	✓	
48261AB	Amber	Front turn	12 VDC		✓
48263AB	Amber	Front Turn	24 VDC		✓

*White Flange also available contact Dialight

68 Series – 2 x 6” Oval Signal Lights

LED Vehicle Lighting

On when it counts.

Application

- Rear Turn
- Reverse
- Stop / Tail / Turn

Certifications & ratings

- FMVSS 108

Features & Benefits

- Integral wiring
- Potted designs
- Grommet or flange mount
- Reverse polarity protected
- Maintenance saving

Mechanical Information

Mounting Hole Size	See mounting hole pattern on page 2
Mounting Torque	12 – 14 in-lbs. (flange mount)

Electrical Specification

Nominal Voltage	12 VDC and 24 VDC
Typical Current	Amber turn 12 VDC – 420 mA @ 12.8 VDC 24 VDC – 260 mA @ 25.6 VDC White reverse 12 VDC – 185 mA @ 12.8 VDC 24 VDC – 85 mA @ 25.6 VDC Red S/T/T lights 12 VDC – tail 20 mA @ 12.8 VDC, S/T 240 mA @ 12.8 VDC 24 VDC – tail 9 mA @ 25.6 VDC S/T 95 mA @ 25.6 VDC

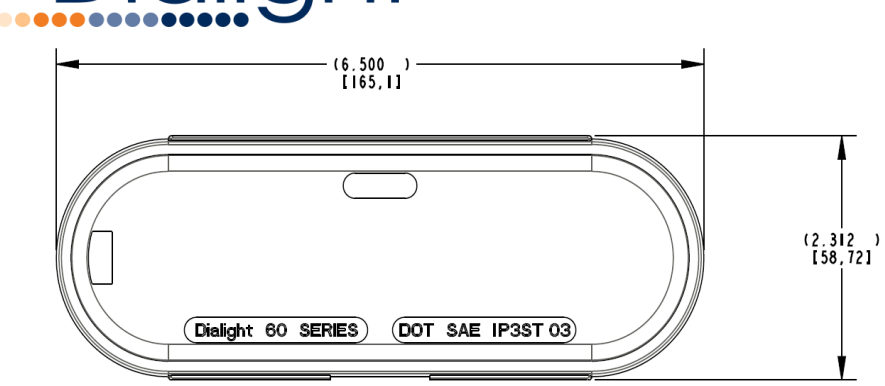
Construction

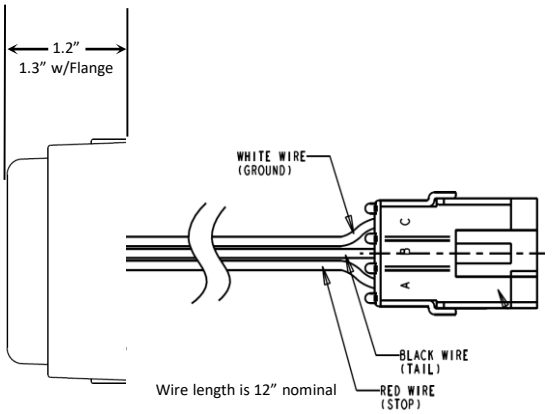
Lens Material	Hard coated polycarbonate
Sealing Method	Potted
Connector*	Delphi 1201-0973 turn / reverse + to position A – to position B Delphi 1201-0717 red S/T/T Stop / Turn – pos. A, Tail – pos. B ground – pos. C

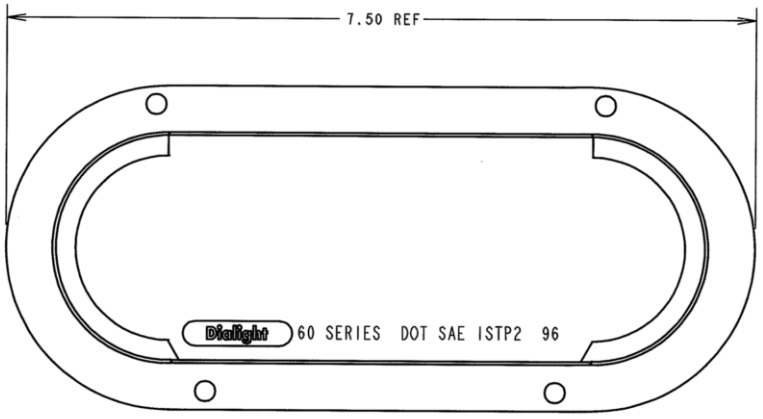
Photometric

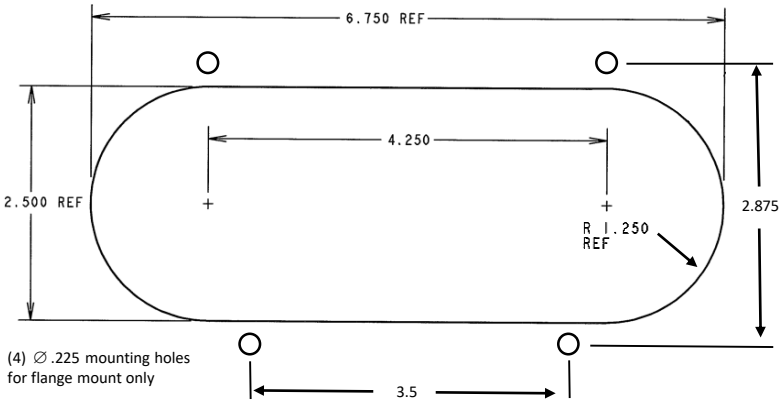
FMVSS 108	Rear Turn, Reverse, S/T/T (see table)
Mounting	± 5° Slope , Vertical or Horizontal

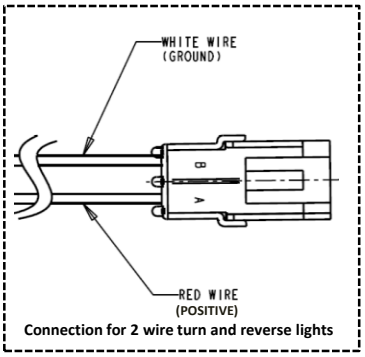
* Consult Dialight for alternate connector options











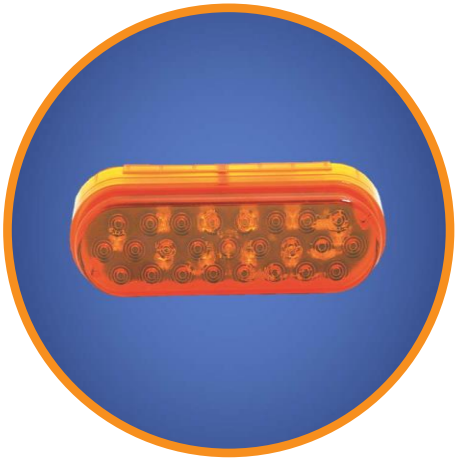
Connection for 2 wire turn and reverse lights

Part Number	Color	Function	Voltage	Mounting	
				Grommet	Black Flanged *
68121AB	Amber	Rear turn	12 VDC	✓	
68121CB	White	Reverse	12 VDC	✓	
68121RB	Red	S/T/T	12 VDC	✓	
68123AB	Amber	Rear turn	24 VDC	✓	
68123CB	White	Reverse	24 VDC	✓	
68123RB	Red	S/T/T	24 VDC	✓	
68261AB	Amber	Rear turn	12 VDC		✓
68261CB	White	Reverse	12 VDC		✓
68261RB	Red	S/T/T	12 VDC		✓
68263AB	Amber	Rear turn	24 VDC		✓
68263CB	White	Reverse	24 VDC		✓
68263RB	Red	S/T/T	24 VDC		✓

*White Flange also available contact Dialight

69 Series – 2 x 6” Oval Front Turn
LED Vehicle Lighting

On when it counts.



Application

- Front Turn

Certifications & ratings

- FMVSS 108

Features & Benefits

- Integral wiring
- Potted designs
- Grommet or flange mount
- Reverse polarity protected
- Maintenance saving

Mechanical Information

Mounting Hole Size	See mounting hole pattern on page 2
Mounting Torque	12 – 14 in-lbs. (flange mount)

Electrical Specification

Nominal Voltage	12 VDC and 24 VDC
Typical Current	Amber turn 12 VDC – 420 mA @ 12.8 VDC 24 VDC – 260 mA @ 25.6 VDC

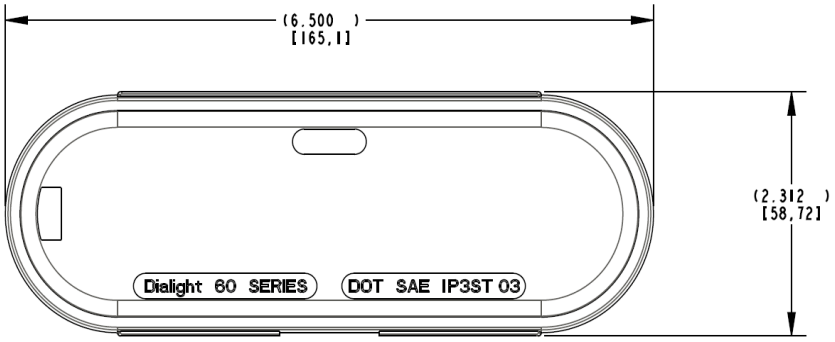
Construction

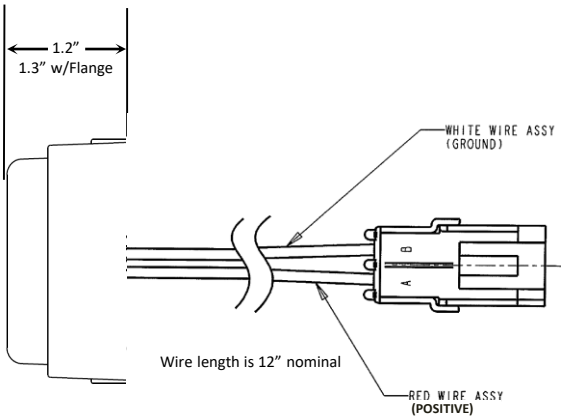
Lens Material	Hard coated polycarbonate
Sealing Method	Potted
Connector*	Delphi 1201-0973 (2 wire) + to position A – to position B

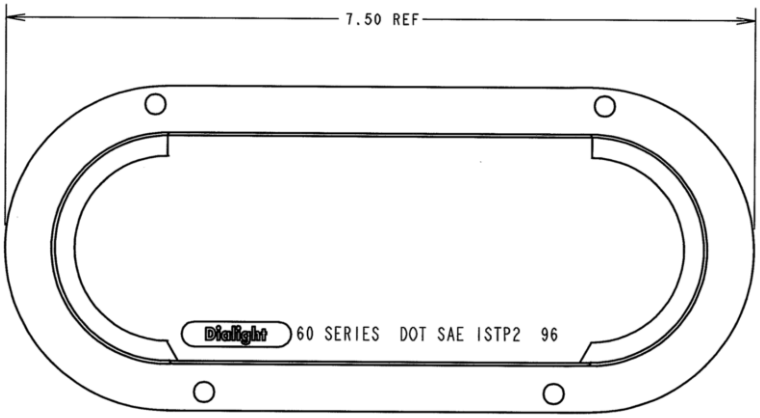
Photometric

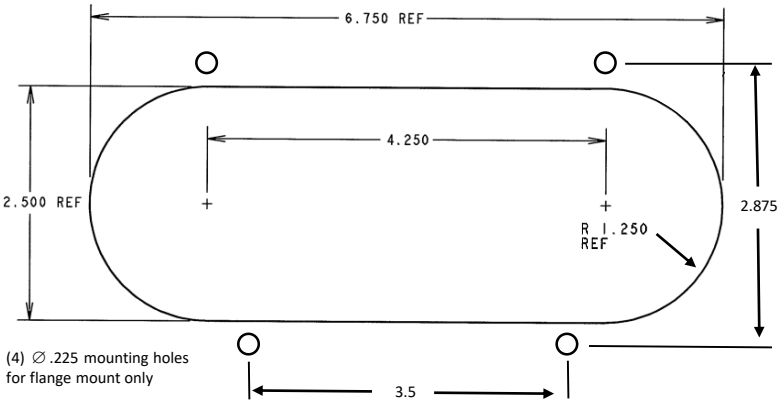
FMVSS 108	Front Turn,
Mounting	± 5° Slope , Vertical or Horizontal

* Consult Dialight for alternate connector options









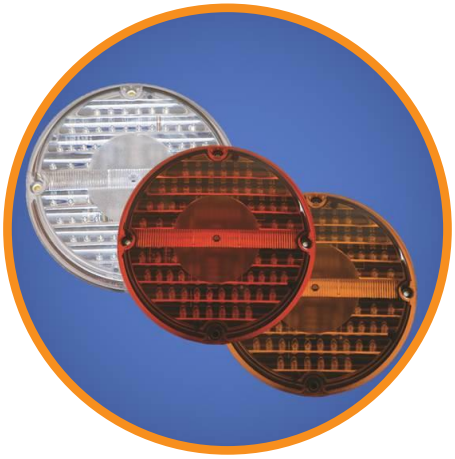
Part Number	Color	Function	Voltage	Mounting	
				Grommet	Black Flanged *
69121AB	Amber	Front turn	12 VDC	✓	
69123AB	Amber	Front turn	24 VDC	✓	
69261AB	Amber	Front turn	12 VDC		✓
69263AB	Amber	Front Turn	24 VDC		✓

*White Flange also available contact Dialight

70 / 71 Series – 7” Round Signal Lights

LED Vehicle Lighting

On when it counts.



Application

- Rear Turn
- Reverse
- Stop / Tail / Turn

Certifications & ratings

- FMVSS 108

Features & Benefits

- Integral wiring
- Potted designs
- Surface mounted
- Integral reflector on Red S/T/T
- Reverse polarity protected
- Maintenance saving

Mechanical Information

Mounting Hole Size	See mounting hole pattern on page 2
Mounting Torque	12 – 14 in-lbs.

Electrical Specification

Nominal Voltage	12 VDC and 24 VDC
Typical Current	Amber turn 12 VDC – 520 mA @ 12.8 VDC 24 VDC – 280 mA @ 25 VDC White reverse 12 VDC – 95 mA @ 12.8 VDC 24 VDC – 90 mA @ 25 VDC Red S/T/T lights 12 VDC – tail 55 mA @ 12.8 VDC, S/T 350 mA @ 12.8 VDC 24 VDC – tail 45 mA @ 25 VDC S/T 200 mA @ 25 VDC

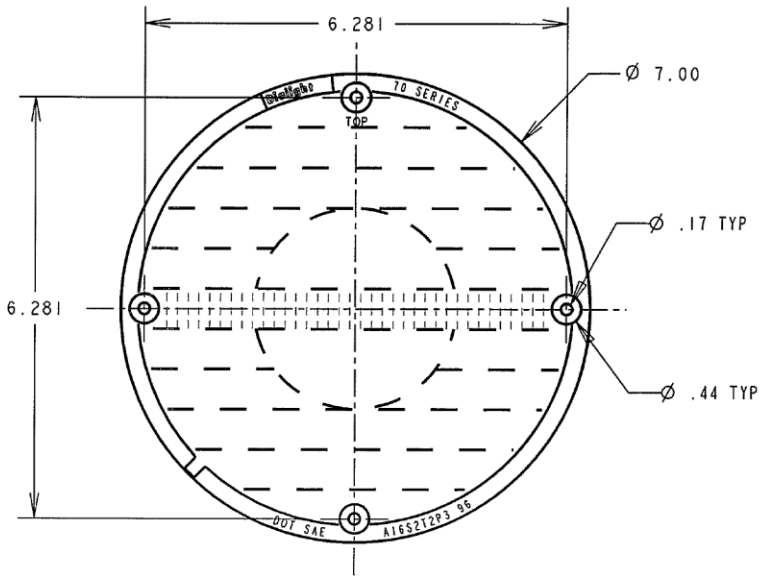
Construction

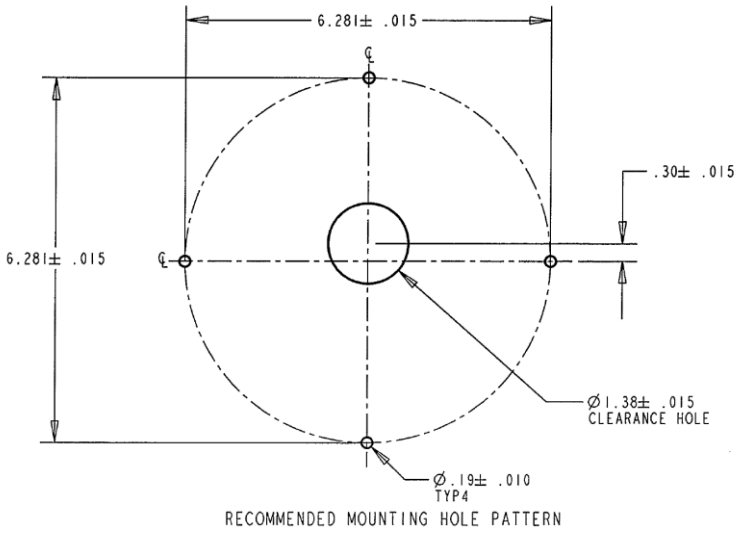
Lens Material	Hard coated polycarbonate
Sealing Method	Potted
Connector*	Delphi 1201-0973 turn / reverse + to position A – to position B Delphi 1201-0717 red S/T/T Stop / Turn – pos. A, Tail – pos. B ground – pos. C

Photometric

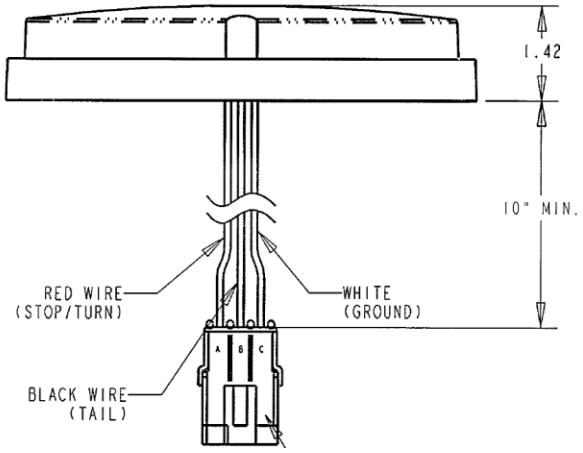
FMVSS 108	Rear Turn, Reverse, S/T/T (see table)
Mounting	± 5° Slope

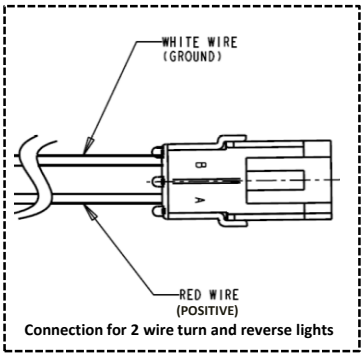
* Consult Dialight for alternate connector options





RECOMMENDED MOUNTING HOLE PATTERN



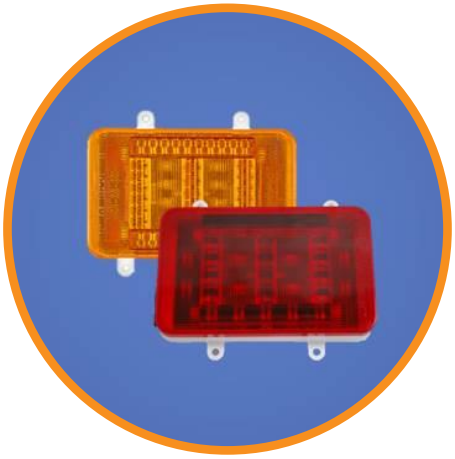


Connection for 2 wire turn and reverse lights

Part Number	Color	Function	Voltage
70131AB	Amber	Rear turn	12 VDC
70131RB	Red	S/T/T	12 VDC
70133AB	Amber	Rear turn	24 VDC
70133RB	Red	S/T/T	24 VDC
71121CB	White	Reverse	12 VDC
71123CB	White	Reverse	24 VDC

80 Series – Signal Lights
LED Vehicle Lighting

On when it counts.



Application

- Rear Turn
- Stop / Tail / Turn

Certifications & ratings

- FMVSS 108

Features & Benefits

- Integral wiring
- Reverse polarity protected
- Maintenance saving
- Retrofit for older MCI coaches and RTS buses

Mechanical Information

Mounting Hole Size	See hole pattern on page 2
Mounting Torque	12 – 14 in-lbs.

Electrical Specification

Nominal Voltage	12 VDC and 24 VDC
Typical Current	Amber turn 12 VDC – 330 mA @ 12.8 VDC 24 VDC – 210 mA @ 24 VDC Red S/T/T lights 12 VDC – tail 90 mA @ 12.8 VDC, S/T 460 mA @ 12.8 VDC 24 VDC – tail 40 mA @ 24 VDC S/T 250 mA @ 24 VDC

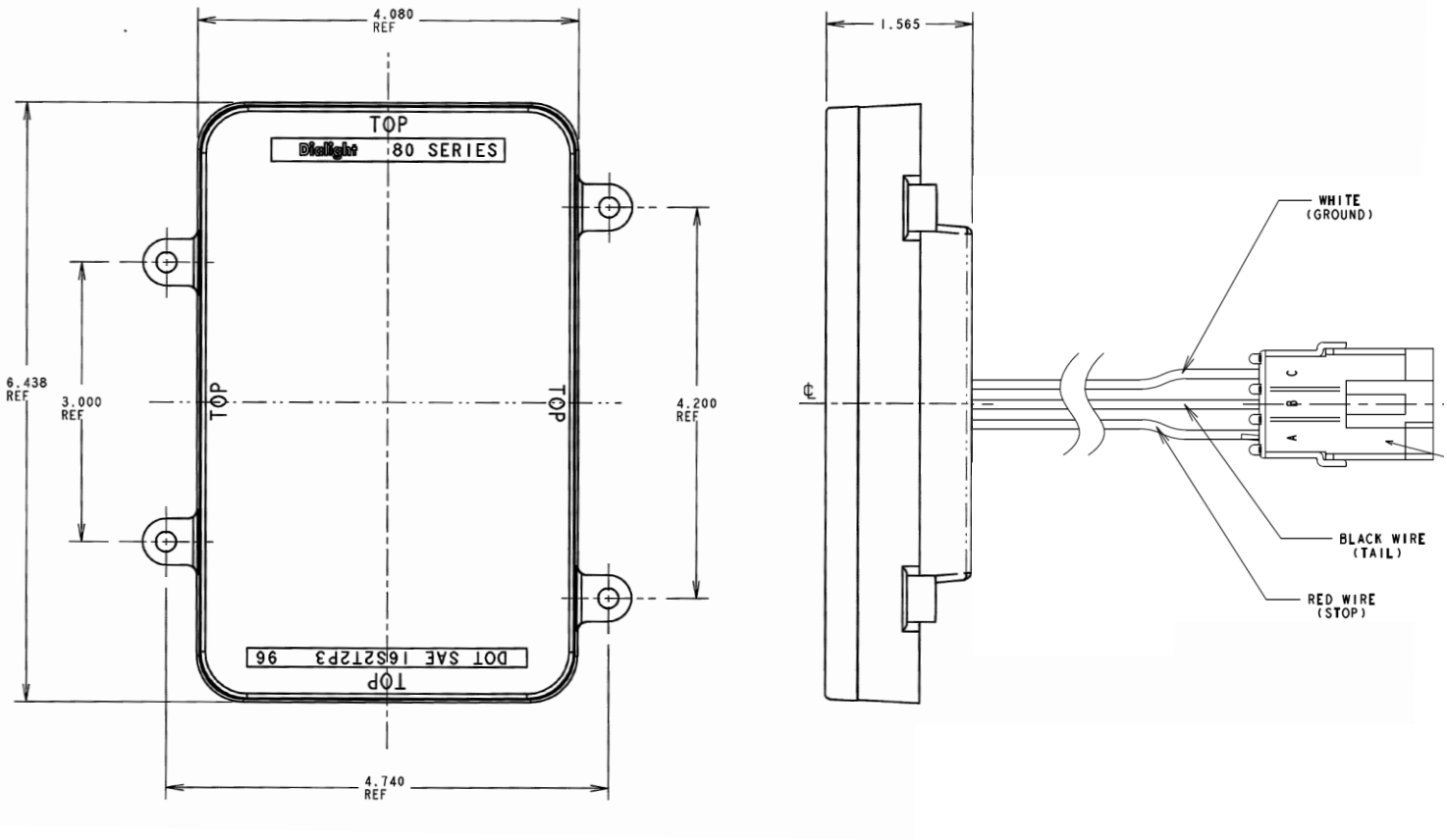
Construction

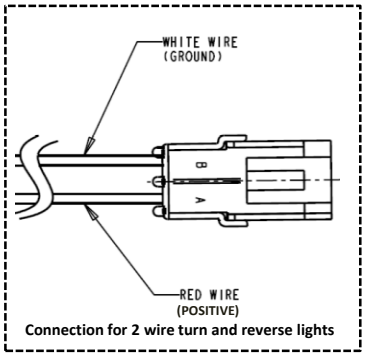
Lens Material	Hard coated polycarbonate
Housing Material	Polycarbonate
Sealing Method	Vibration welded
Connector*	Delphi 1201-0973 turn / reverse + to position A – to position B Delphi 1201-0717 red S/T/T Stop / Turn – pos. A, Tail – pos. B ground – pos. C

Photometric

FMVSS 108	Rear Turn, S/T/T (see table)
Mounting	± 5° Slope

* Consult Dialight for alternate connector options





Connection for 2 wire turn and reverse lights

Part Number	Color	Function	Voltage
80131AB	Amber	Rear turn	12 VDC
80131RB	Red	S/T/T	12 VDC
80133AB	Amber	Rear turn	24 VDC
80133RB	Red	S/T/T	24 VDC

84 Series – Signal Lights
LED Vehicle Lighting

On when it counts.

Application

- Rear Turn
- Reverse
- Stop / Tail / Turn

Certifications & ratings

- FMVSS 108

Features & Benefits

- Integral wiring
- Potted designs
- Reverse polarity protected
- Maintenance saving

Mechanical Information

Mounting Hole Size	See pattern on page 2
Mounting Torque	12 – 14 in-lbs.

Electrical Specification

Nominal Voltage	12 VDC and 24 VDC
Typical Current	Amber turn 12 VDC – 400 mA @ 12.8 VDC 24 VDC – 300 mA @ 25 VDC White reverse 12 VDC – 170 mA @ 12.8 VDC 24 VDC – 85 mA @ 25 VDC Red S/T/T lights 12 VDC – tail 35 mA @ 12.8 VDC, S/T 330 mA @ 12.8 VDC 24 VDC – tail 25 mA @ 25 VDC S/T 200 mA @ 25 VDC

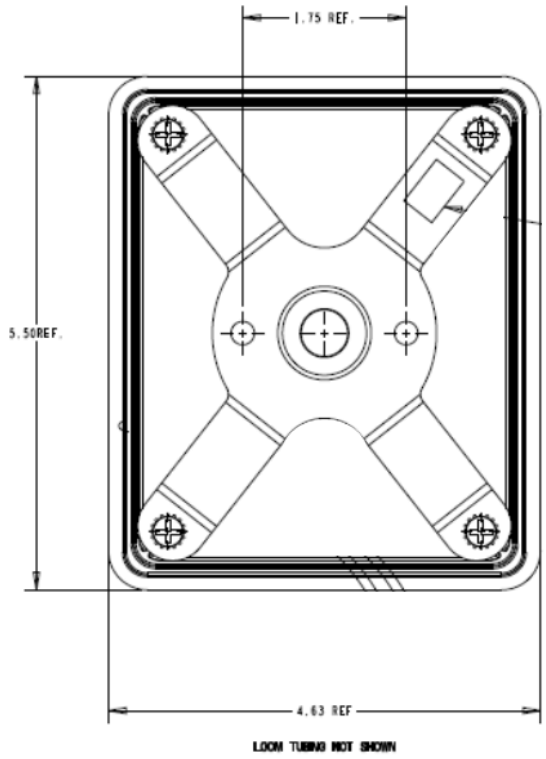
Construction

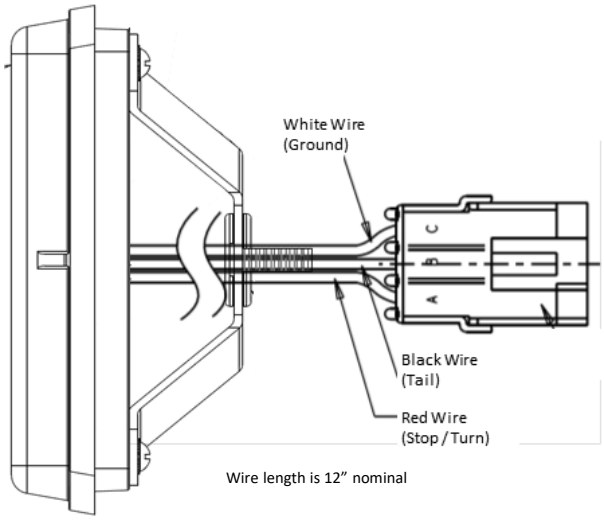
Lens Material	Hard coated polycarbonate
Sealing Method	Potted
Mounting Bracket	Aluminum w/ 2 press fit studs
Connector*	Delphi 1201-0973 turn / reverse + to position A – to position B Delphi 1201-0717 red S/T/T Stop / Turn – pos. A, Tail – pos. B ground – pos. C

Photometric

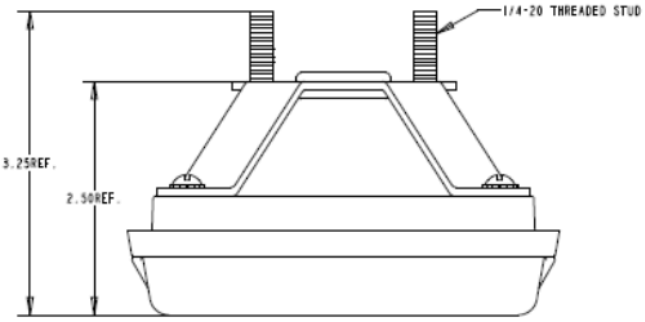
FMVSS 108	Rear Turn, Reverse, S/T/T (see table)
Mounting	± 5° Slope , Vertical or Horizontal

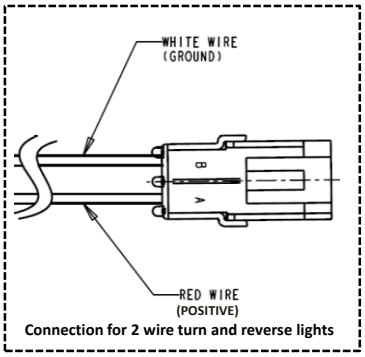
* Consult Dialight for alternate connector options





Wire length is 12" nominal



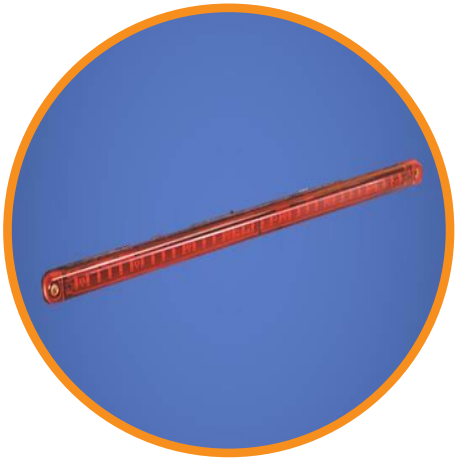


Connection for 2 wire turn and reverse lights

Part Number	Color	Function	Voltage
84121AB	Amber	Rear turn	12 VDC
84121CB	Red	Reverse	12 VDC
84121RB	Amber	S/T/T	12 VDC
84123AB	Red	Rear Turn	24 VDC
84123CB	White	Reverse	24 VDC
84123RB	White	S/T/T	24 VDC

87 Series – Center High Mount Stop
LED Vehicle Lighting

On when it counts.



Application

- Center High Mount Stop Lamp (CHMSL)

Certifications & ratings

- FMVSS 108

Features & Benefits

- Integral wiring
- Metal mounting base
- Reverse polarity protected
- Maintenance saving

Mechanical Information

Mounting Hole Size	See pattern on page 2
Mounting Torque	12 – 14 in-lbs.

Electrical Specification

Nominal Voltage	12 VDC and 24 VDC
Typical Current	12 VDC – 380 mA @ 12.8 VDC 24 VDC – 240 mA @ 25.6 VDC

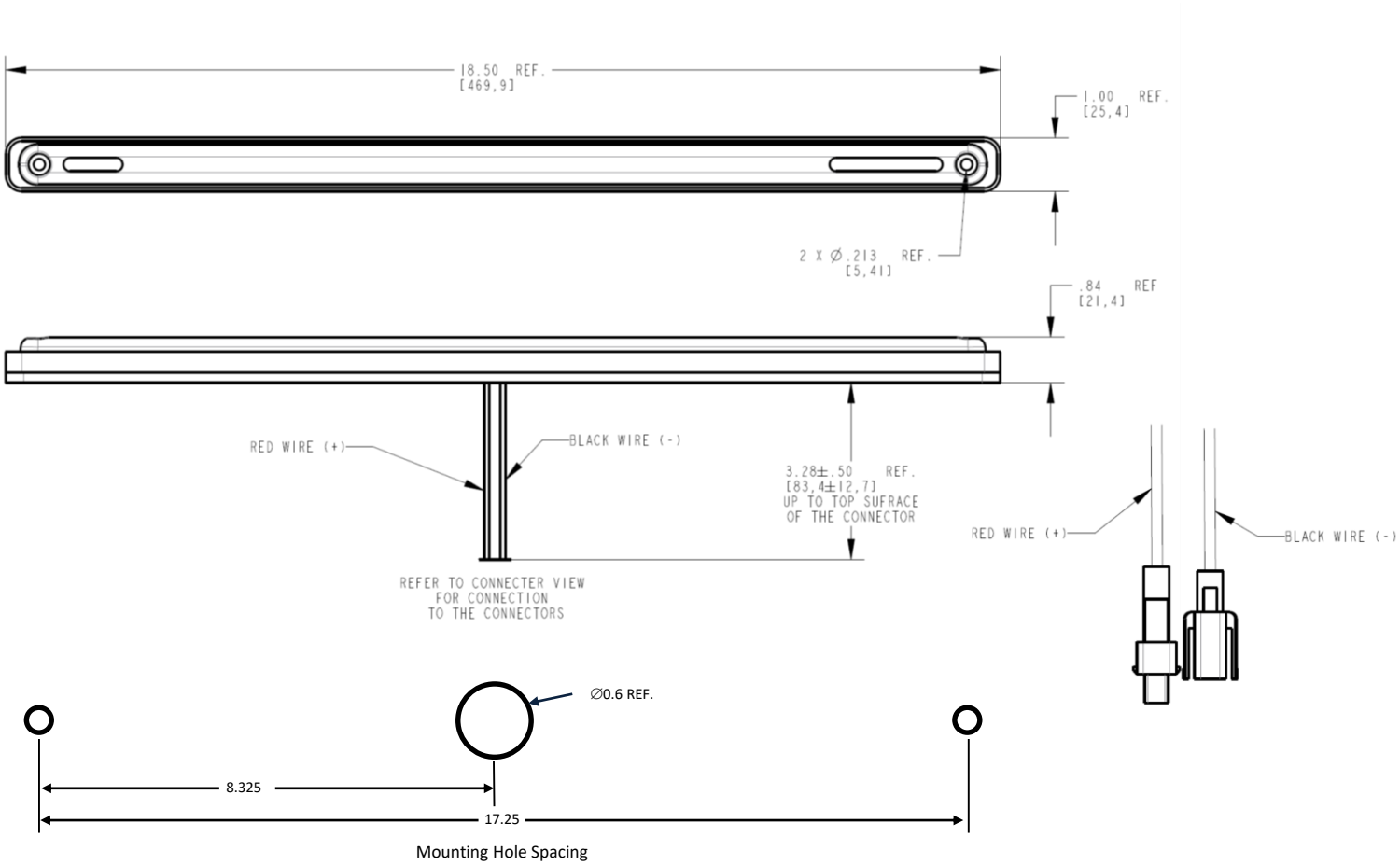
Construction

Lens Material	Hard coated polycarbonate
Base Material	Anodized aluminum
Gasket Material	Closed cell foam
Sealing Method	Polyurethane seal to metal base
Mounting Bracket	Aluminum w/ 2 press fit studs
Connector*	EDAC 568-001-000-100 (plug) **to r**ed wire positive EDAC 568-001-000-200 (receptacle) to black wire ground

Photometric

FMVSS 108	Center high mount stop lamp
Mounting	± 5° Slope , Vertical or Horizontal

* Consult Dialight for alternate connector options

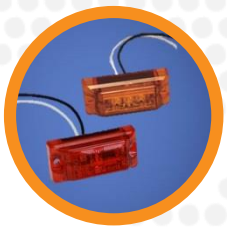


Mounting Hole Spacing

Part Number	Color	Function	Voltage
87121RB	Red	CHMSL	12 VDC
87123RB	Red	CHMSL	24 VDC

The Leader in LED Bus Lights

LED Marker Lights



13 Series

- 2.5” x 1.0”
- 2.125” Screw mounting centers
- 12 VDC and 24 VDC
- Red, Amber

15 Series

- 4.0” x 0.88”
- 3” Screw mounting centers
- 12 VDC and 24 VDC
- Red, Amber

16 Series

- 2” Round
- Grommet mount
- Grommet – 91601A
- 12 VDC and 24 VDC
- Red, Amber

17 Series

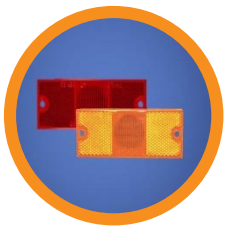
- 2.5” Round
- 2.5” Grommet or flange mount
- Grommet 91701A
- 12 VDC and 24 VDC
- Red, Amber

18 Series

- 4.8” x 1.95”
- 4 Mounting screws 1.19 “x 3.875” pattern
- 12 VDC and 24 VDC
- Red, Amber

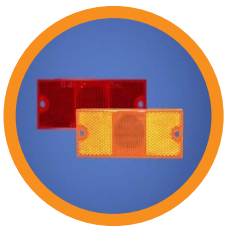
20 Series

- 4.55” x 2.23”
- 3.625” Screw mounting centers
- 12 VDC and 24 VDC
- Amber



45 Series

- 4.5” x 1.625”,
- 4” Screw mounting centers
- 12 VDC and 24 VDC
- Red, Amber



45 Series (high angle version)

- 4.5” x 1.625”,
- 4” Screw mounting centers
- Vertical and Horizontal mounting from same unit
- Horizontal mount up to 55° rollback
- 12 VDC and 24 VDC
- Red, Amber

Consult Dialight about connector options

1501 Route 34 South
Farmingdale, NJ 07727
Tel. 732-751-3119
Fax. 732-751-5778

www.dialight.com

LED Marker Light Mounting Recommendations (when no guard is used)

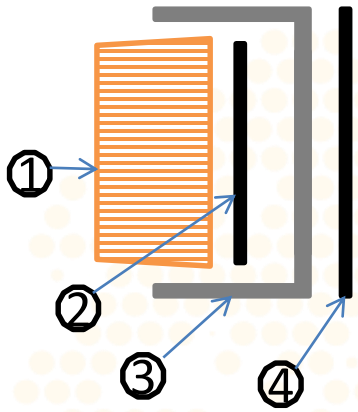
- Mounting plane for the light must be flat and not rounded
- If not provided with the light, select appropriate attachment screw such that the screw threads clear the through holes in the light
- If the light has a recessed area for the screw head, ensure the screw head has clearance between the side walls of the recess and the screw head
- For lights with gaskets position the gasket behind the light to compensate for minor surface irregularities and to seal the light to vehicle interface.
- Tighten screws to a torque of 12 to 14 in-lbs.
- Caution: Loctite is not recommended for use when installing the lights as Loctite contains chemical ingredients that are not compatible with polycarbonate materials
- Caution: Do not over-torque the screws when installing. Over- torqueing of the screws may add stress to the light that could make the light susceptible to failure from cleaning soaps that would attack the light at the stressed area resulting in potential cracking of the light.

LED Marker Light Mounting Recommendations (when used with optional guard)

Note: the use of an additional foam gasket and guard are optional but when the guard is used it must be used in conjunction with the foam gasket supplies with the light

- Mounting plane for the light must be flat and not rounded
- If not provided with the light, select appropriate attachment screw such that the screw threads clear the through holes in the light
- If the light has a recessed area for the screw head, ensure the screw head has clearance between the side walls of the recess and the screw head
- Position light (1) and gasket (2)into the guard (3)
- Place gasket that additional gasket (4)between the back of the guard and the bus
- Mount the marker light with guard / gaskets to the bus positioning a nylon washer underneath the screw head so that the screw head does not dig into the polycarbonate lens.
- Mounting torque should be limited to 12 -14 in-lbs.
- Caution: Loctite is not recommended for use when installing the lights as Loctite contains chemical ingredients that are not compatible with polycarbonate materials
- Caution: Do not over-torque the screws when installing. Over- torqueing of the screws may add stress to the light that could make the light susceptible to failure from cleaning soaps that would attack the light at the stressed area resulting in potential cracking of the light.

Item	Description
1	Marker Light
2	Foam Gasket
3	Light Guard
4	Additional Foam Gasket



13 Series – Marker Light
LED Vehicle Lighting

On when it counts.

Application

- LED Marker Light
- LED Clearance Light

Certifications & Ratings

- FMVSS 108

Features & Benefits

- Integral wiring
- Small footprint
- Reverse polarity protected
- Maintenance saving

Mechanical Information

Mounting Hole Size	0.5 in (12.7 mm)
Mounting Torque	12 – 14 in-lbs.

Electrical Specification

Nominal Voltage	12 VDC and 24 VDC
Typical Current	12 VDC – 60 mA @ 13.5 VDC 24 VDC – 45 mA @ 25.6 VDC

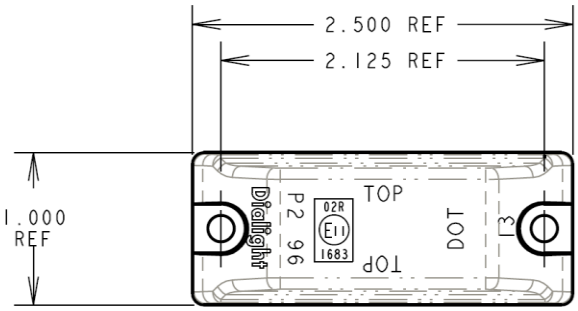
Construction

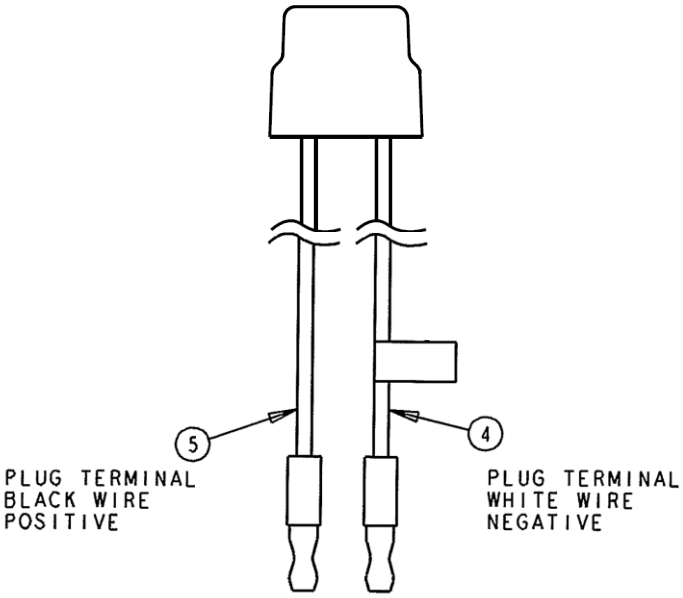
Lens Material	**P**olycarbonate
Sealing	Potted design
Gasket Material	Closed cell foam
Connector*	.180 bullet terminals White wire +, Black wire –

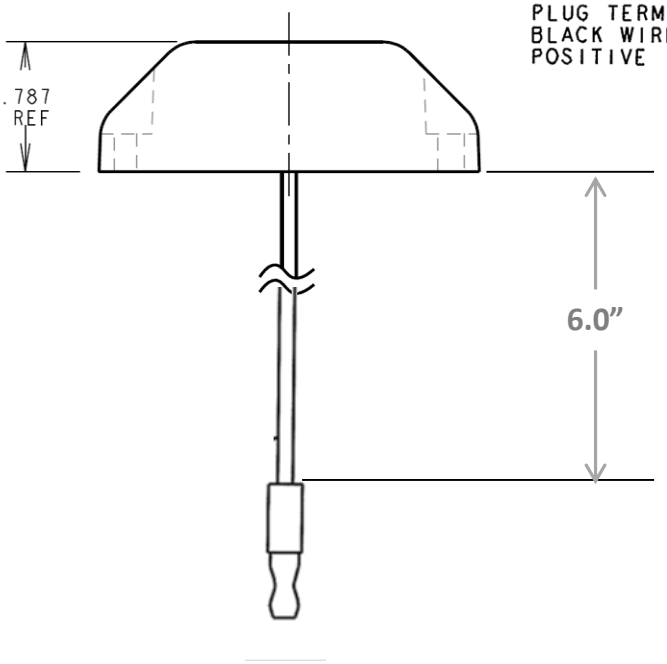
Photometric

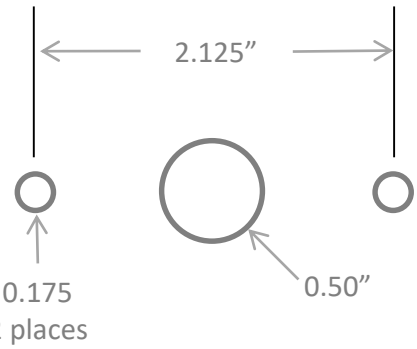
FMVSS 108	Clearance / Marker Light
Mounting Limits	Horizontal mount ± 5° slope

* Consult Dialight for alternate connector options









Part Number	Color	Voltage
13001AB	Amber	12 VDC
13001RB	Red	12 VDC
13003AB	Amber	24 VDC
13003RB	Red	24 VDC

15 Series – Marker Light
LED Vehicle Lighting

On when it counts.

Application

- LED Marker Light
- LED Clearance Light

Certifications & Ratings

- FMVSS 108

Features & Benefits

- Integral wiring
- Surface mount
- Reverse polarity protected
- Maintenance saving
- Aluminum guard available

Mechanical Information

Mounting Hole Size	0.5 in (12.7 mm) two 0.22 holes, 3” on centers
Mounting Torque	12 – 14 in-lbs.

Electrical Specification

Nominal Voltage	12 VDC and 24 VDC
Typical Current	12 VDC Amber 90 mA @ 13.5 VDC Red 60 mA @ 13.5 VDC 24 VDC Amber 50 mA @24 VDC Red 50 mA @ 24 VDC

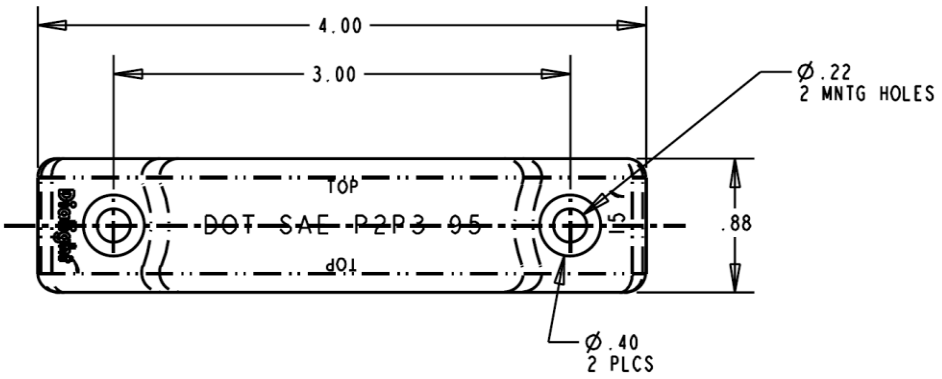
Construction

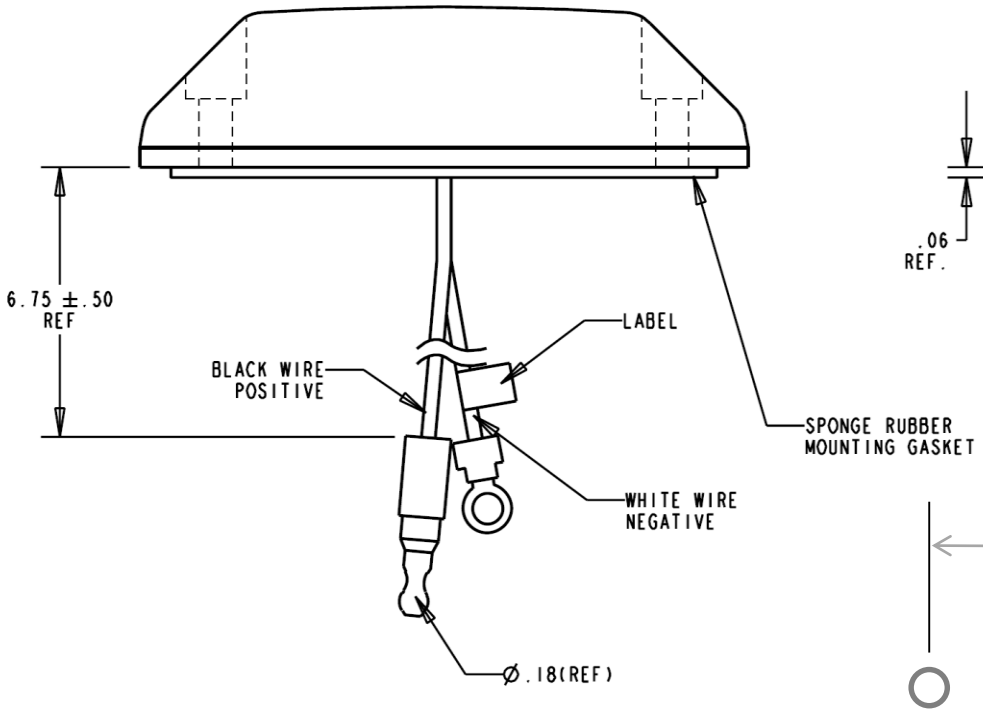
Lens Material	Polycarbonate
Sealing	Potted design
Gasket Material	Closed cell foam
Connector*	.180 bullet terminal (positive) #10 Ring terminal (negative)

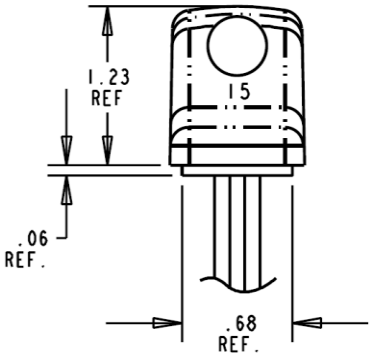
Photometric

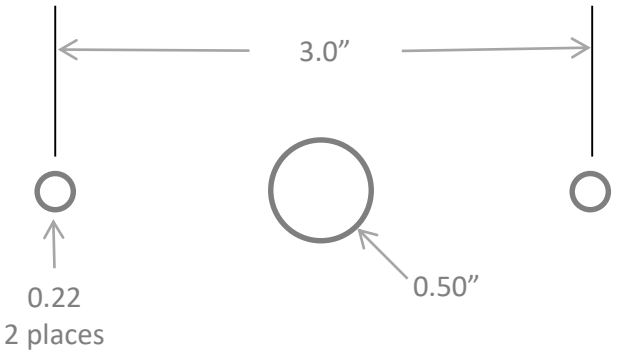
FMVSS 108	Clearance / Marker Light
Mounting Limits	Horizontal mount Amber ± 10° slope Red ± 20° slope

* Consult Dialight for alternate connector options





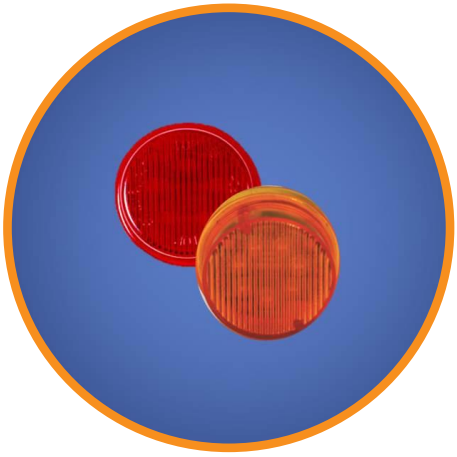




Part Number	Color	Voltage
15001AB	Amber	12 VDC
15001RB	Red	12 VDC
15003AB	Amber	24 VDC
15003RB	Red	24 VDC

16 Series – 2” Marker Light
LED Vehicle Lighting

On when it counts.



Application

- LED Marker Light
- LED Clearance Light

Certifications & Ratings

- FMVSS 108

Features & Benefits

- Integral wiring
- Grommet mount
- Reverse polarity protected
- Maintenance saving

Mechanical Information

Mounting Hole Size	2 5/16” for use with grommet

Electrical Specification

Nominal Voltage	12 VDC and 24 VDC
Typical Current	12 VDC Amber 55 mA @ 13.5 VDC Red 45 mA @ 13.5 VDC 24 VDC Amber 60 mA @ 25 VDC Red 40 mA @ 25 VDC

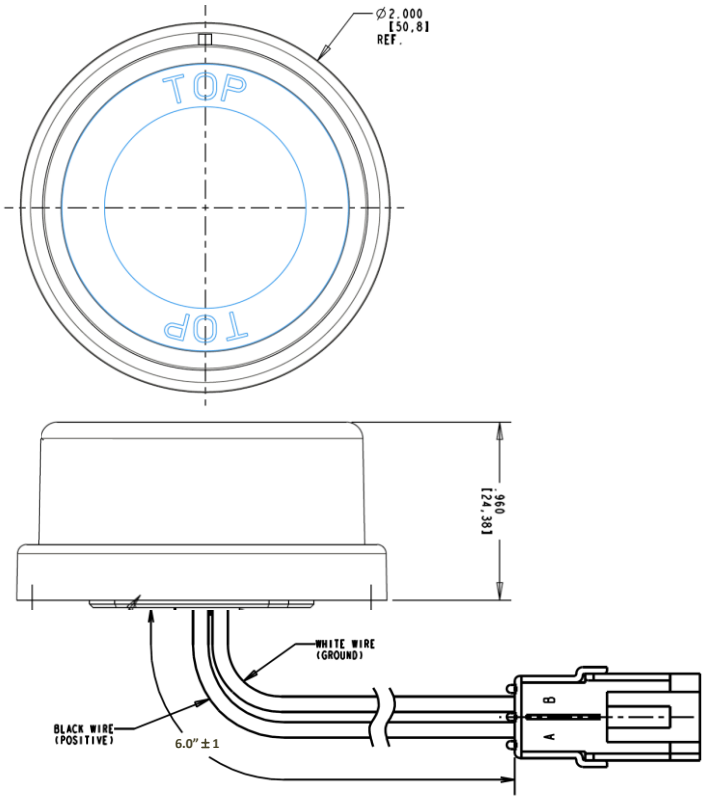
Construction

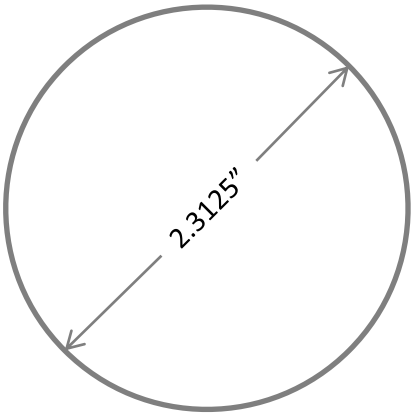
Lens Material	Polycarbonate
Housing material	Polycarbonate
Sealing Method	Vibration welded
Connector*	Delphi 1201-0973 + to position A – to position B

Photometric

FMVSS 108	Clearance / Marker Light
Mounting Limits	Amber ± 10° slope Red ± 20° slope

* Consult Dialight for alternate connector options





Suggested mounting hole – Grommet mount

Part Number	Color	Voltage
16001AB	Amber	12 VDC
16001RB	Red	12 VDC
16003AB	Amber	24 VDC
16003RB	Red	24 VDC

17 Series – 2.5” Marker Light
LED Vehicle Lighting

On when it counts.

Application

- LED Marker Light
- LED Clearance Light

Features & Benefits

- Integral wiring
- Grommet mount
- Flange Mount option
- Closed cell foam gasket option for flange mount
- Reverse polarity protected
- Maintenance saving

Mechanical Information

Mounting Hole Size	2 3/4” for use with grommet or flange mount

Electrical Specification

Nominal Voltage	12 VDC and 24 VDC
Typical Current	12 VDC Amber 55 mA @ 13.5 VDC Red 45 mA @ 13.5 VDC 24 VDC Amber 60 mA @ 25 VDC Red 40 mA @ 25 VDC

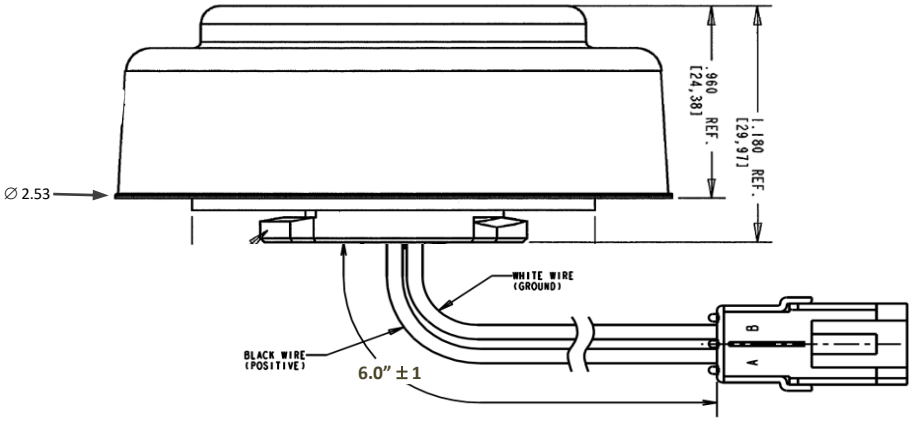
Construction

Lens Material	Polycarbonate
Housing material	Polycarbonate
Sealing Method	Vibration welded
Connector*	Delphi 1201-0973 + to position A – to position B

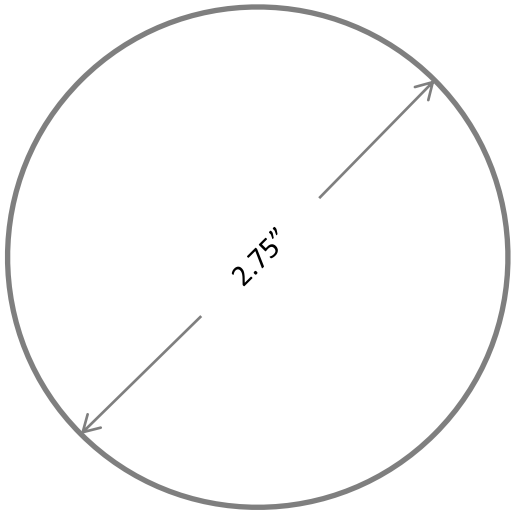
Photometric

FMVSS 108	Clearance / Marker Light
Mounting Limits	Amber ± 10° slope Red ± 20° slope

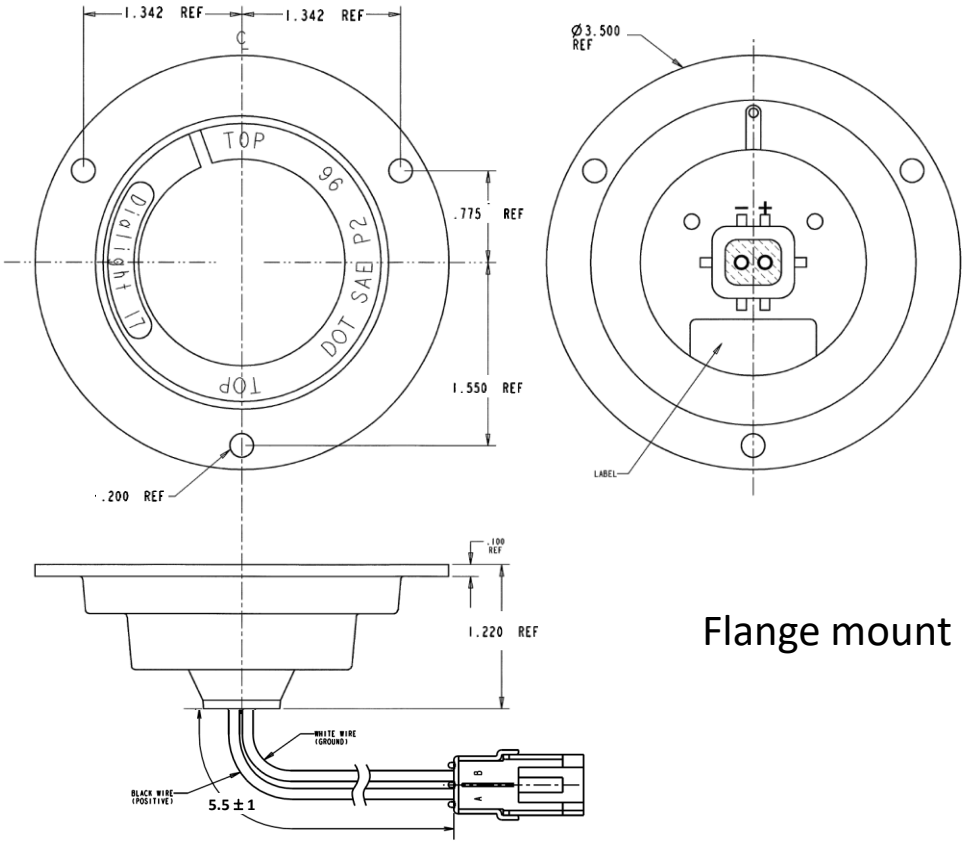
* Consult Dialight for alternate connector options



Grommet mount



Suggested mounting hole

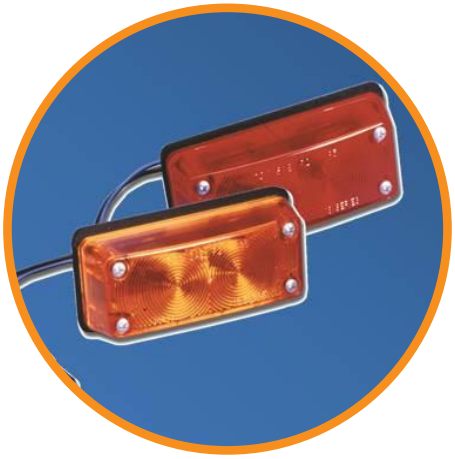


Flange mount

Part Number	Color	Voltage	Mounting	
			Grommet	Black Flanged
17001AB	Amber	12 VDC	✓	
17001RB	Red	24 VDC	✓	
17003AB	Amber	12 VDC	✓	
17003RB	Red	24 VDC	✓	
17081AB	Amber	12 VDC		✓
17081RB	Red	24 VDC		✓
17083AB	Amber	12 VDC		✓
17083RB	Red	24 VDC		✓

18 Series – Marker Light
LED Vehicle Lighting

On when it counts.



Application

- LED Marker Light
- LED Clearance Light

Certifications & Ratings

- FMVSS 108

Features & Benefits

- Integral wiring
- Low profile
- Flexible mounting
- Reverse polarity protected
- Maintenance saving
- Lamp guards available

Mechanical Information

Mounting Hole Size	1.84” (46.7 mm)
Mounting Torque	12 – 14 in-lbs.

Electrical Specification

Nominal Voltage	12 VDC and 24 VDC
Typical Current	12 VDC – 110 mA @ 12 VDC 24 VDC – 55 mA @ 24 VDC

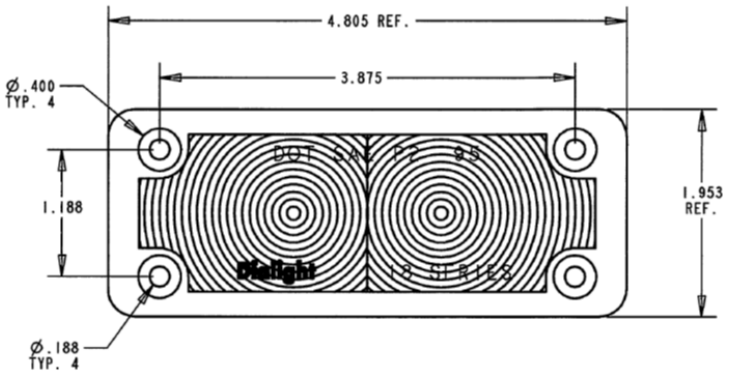
Construction

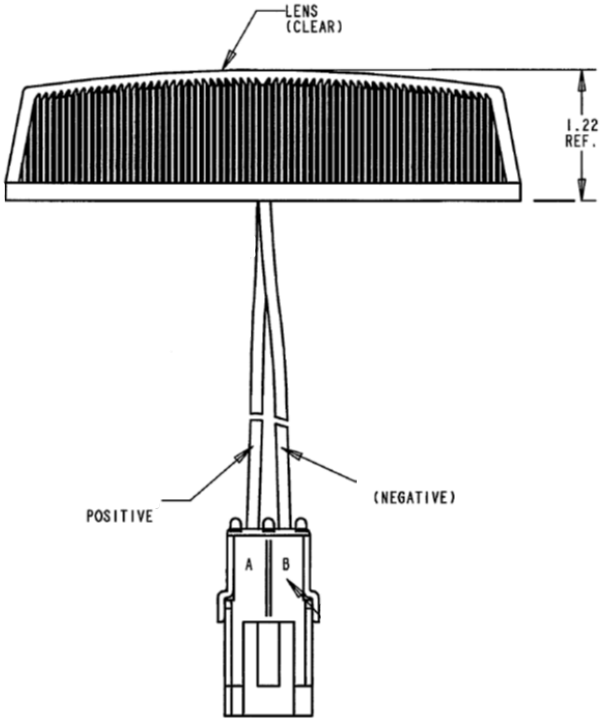
Lens Material	Polycarbonate
Housing material	Polycarbonate
Sealing Method	Vibration Welded
Gasket Material	Closed cell foam
Connector*	Delphi 1201-0973 + to position A – to position B

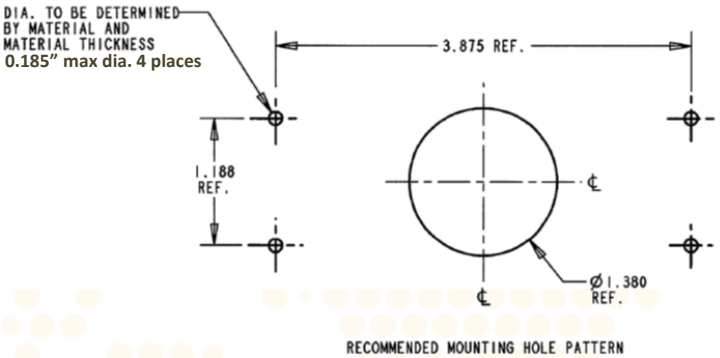
Photometric

FMVSS 108	Clearance / Marker Light
Mounting Limits	Horizontal or vertical up to ± 30° slope

* Consult Dialight for alternate connector options







RECOMMENDED MOUNTING HOLE PATTERN

Part Number	Color	Voltage
18001AB	Amber	12 VDC
18001RB	Red	12 VDC
18011AB	Amber	24 VDC
18011RB	Red	24 VDC

20 Series – Marker Light
LED Vehicle Lighting

On when it counts.

Application

- LED Marker Light
- LED Clearance Light

Certifications & Ratings

- FMVSS 108

Features & Benefits

- Integral wiring
- Low profile recessed mount
- Reverse polarity protected
- Maintenance saving

Mechanical Information

Mounting Hole Size	See template on pg. 2
Mounting Torque	12 – 14 in-lbs.

Electrical Specification

Nominal Voltage	12 VDC and 24 VDC
Typical Current	12 VDC – 115 mA @ 13 VDC 24 VDC – 35 mA @ 25 VDC

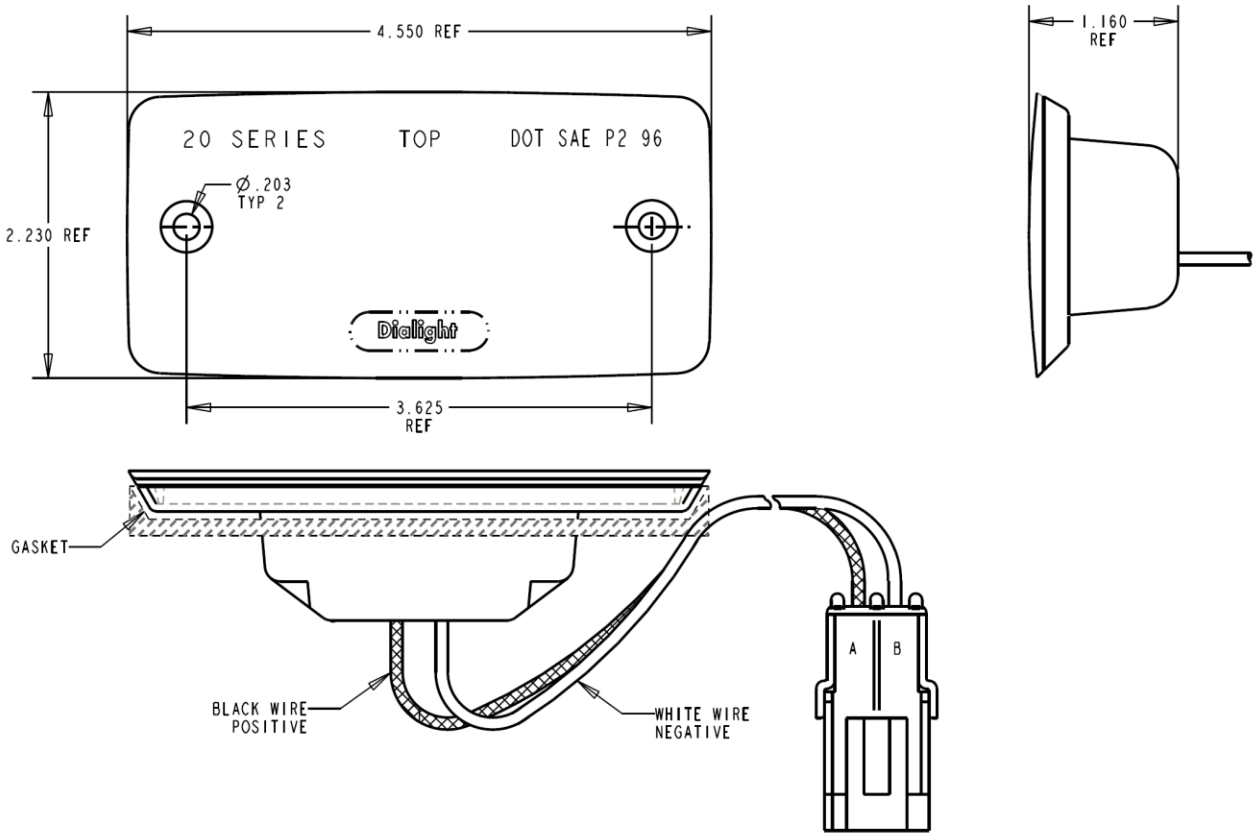
Construction

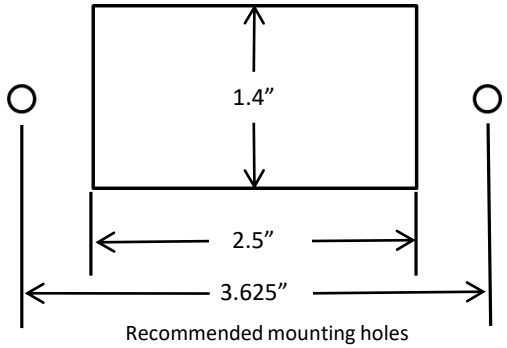
Lens Material	Polycarbonate
Housing material	Polycarbonate
Sealing Method	Vibration Welded
Gasket Material	Closed cell foam
Connector*	Delphi 1201-0973 + to position A – to position B

Photometric

FMVSS 108	Clearance / Marker Light
Mounting Limits	Horizontal mount 28° to 40° rollback

* Consult Dialight for alternate connector options



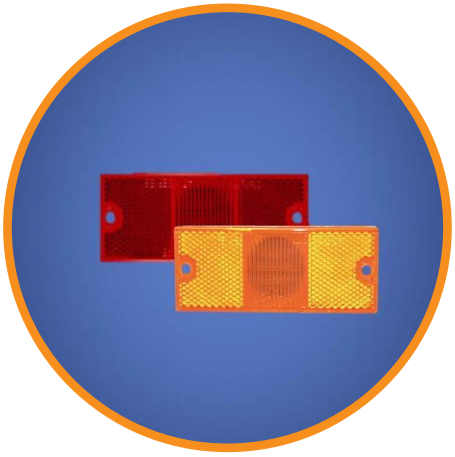


Recommended mounting holes

Part Number	Color	Voltage
20001AB	Amber	12 VDC
20003AB	Amber	24 VDC

45 Series – Marker Light
LED Vehicle Lighting

On when it counts.



Application

- LED Marker Light
- LED Clearance Light

Certifications & Ratings

- FMVSS 108

Features & Benefits

- Integral wiring
- Low profile
- Integral reflector
- Reverse polarity protected
- Maintenance saving

Mechanical Information

Mounting Hole Size	1.84” (46.7 mm)
Mounting Torque	12 – 14 in-lbs.

Electrical Specification

Nominal Voltage	12 VDC and 24 VDC
Typical Current	12 VDC – 55 mA @ 13.5 VDC 24 VDC – 30 mA @ 27 VDC

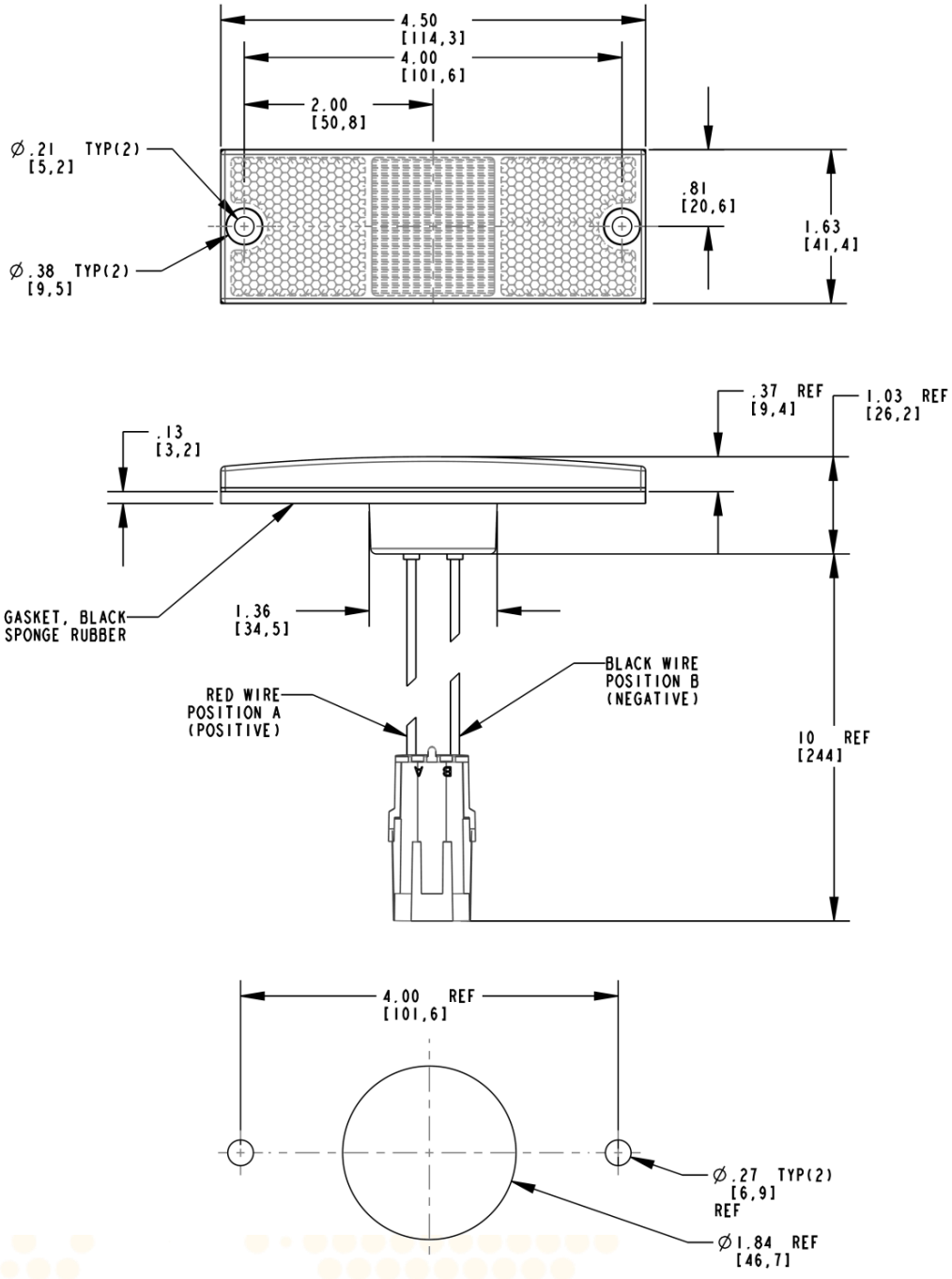
Construction

Lens Material	Hard coated polycarbonate
Housing material	Polycarbonate
Sealing Method	Vibration Welded
Gasket Material	Closed cell foam
Connector*	Delphi 1201-0973 + to position A – to position B

Photometric

FMVSS 108	Clearance / Marker Light
Mounting Limits	Horizontal mount Amber ± 5° slope Red ±10° slope

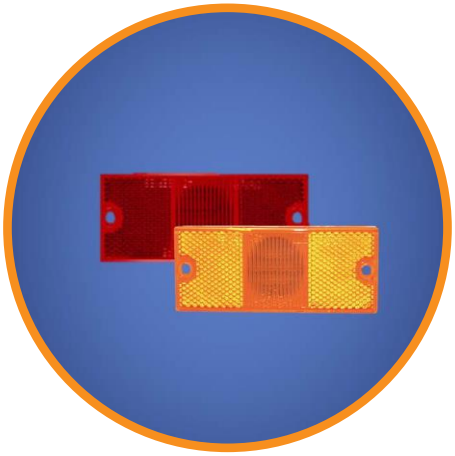
* Consult Dialight for alternate connector options



Part Number	Color	Voltage
45001AB	Amber	12 VDC
15001RB	Red	12 VDC
45003AB	Amber	24 VDC
45003RB	Red	24 VDC

45 Series – High Angle Marker Light
LED Vehicle Lighting

On when it counts.



Application

- LED Marker Light
- LED Clearance Light

Certifications & Ratings

- FMVSS 108

Features & Benefits

- Integral wiring
- Low profile
- Integral reflector
- Horizontal or vertical mounting
- Reverse polarity protected
- Maintenance saving
- Convoluted loom covered wires

Mechanical Information

Mounting Hole Size	0.68” (17.3 mm)
Mounting Torque	12 – 14 in-lbs.

Electrical Specification

Nominal Voltage	12 VDC and 24 VDC
Typical Current	12 VDC – 55 mA @ 12.8 VDC 24 VDC – 50 mA @ 25.6 VDC

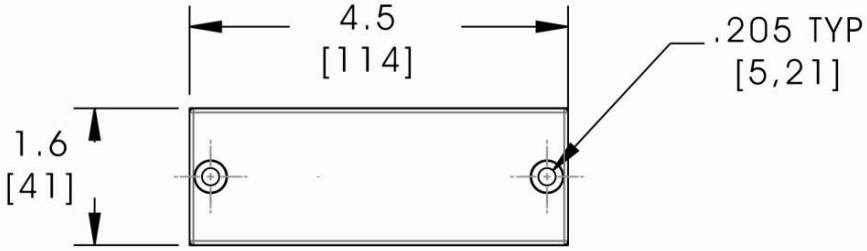
Construction

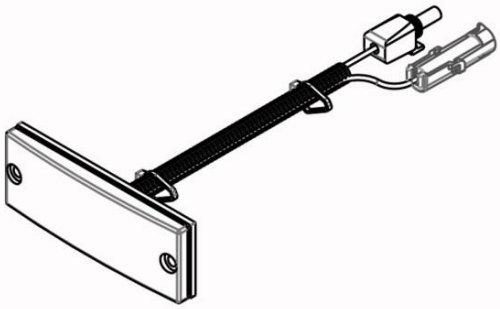
Lens Material	Hard coated polycarbonate
Housing material	Polycarbonate
Sealing Method	Vibration Welded
Gasket Material	Closed cell foam
Connector*	Delphi 1201-5791 (positive) Delphi 1201-0966 (negative)

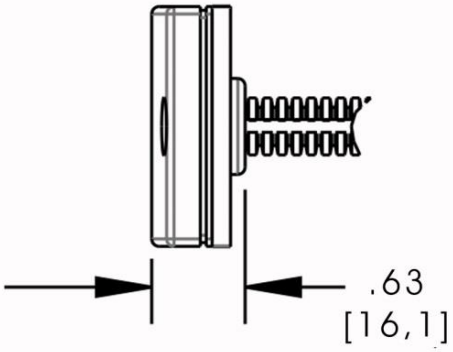
Photometric

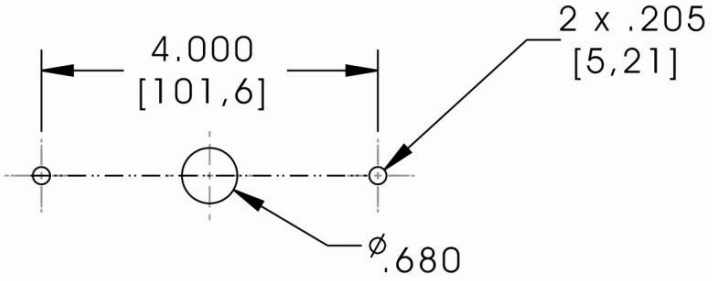
FMVSS 108	Clearance / Marker Light
Mounting Limits	Horizontal mount Up to 55° slope both colors Vertical Mount Amber ± 5° slope Red ±10° slope

* Consult Dialight for alternate connector options









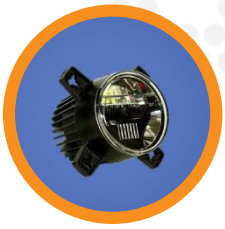
RECOMMENDED MOUNTING HOLE PATTERN

Center mounting hole shown is the minimum size for the product. The hole size may have to vary based on the connector option specified .

Part Number	Color	Voltage
45381AB	Amber	12 VDC
45381RB	Red	12 VDC
45383AB	Amber	24 VDC
45383RB	Red	24 VDC

The Leader in LED Bus Lights

LED Headlights

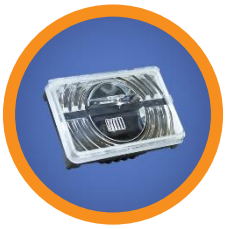


HLC 90 mm Low Beam

- FMVSS108 compliant
- Standard 90 mm format
- Includes alignment screws
- 12 / 24 VDC operation

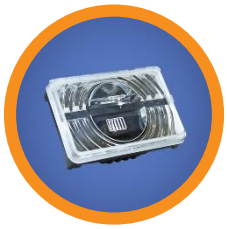
HLB 90 mm High Beam

- FMVSS108 compliant
- Standard 90 mm format
- Includes alignment screws
- 12 / 24 VDC operation



HLC 4x6 Low Beam

- FMVSS108 compliant
- Standard 4” x 6” LB format
- 12 / 24 VDC operation



HLB 4x6 High Beam

- FMVSS108 compliant
- Standard 4” x 6” HB format
- 12 / 24 VDC operation

HLD 7” Dual Beam

- FMVSS108 compliant
- Dual Beam (LB/HB)
- Standard 7” format
- Lens heater option available
- 12 / 24 VDC operation

Consult Dialight about connector options

1501 Route 34 South
Farmingdale, NJ 07727
Tel. 732-751-3119
Fax. 732-751-5778

LED Headlamp Installation

Install each headlamp either into the appropriate mounting bucket or in the case of the 90 mm headlamps using the alignment screw
Install LED headlamp onto vehicle observing the “TOP” note on lens to correctly orient headlamp.
Plug headlamp harness into harness from vehicle.
Re-attach headlamp mounting panel to vehicle.
Aim headlamps per the LED headlamp aiming instructions.
Re-attach front trim panel to vehicle.

Headlamp alignment:

Before alignment is started,
Check the tire inflation.
Check that no other load is in the vehicle other than a half tank of fuel.
Check that the headlamps are clean.
Check for correct headlamp operation.
Park the vehicle on a level surface approximately 7.6 meters (25 feet) from a vertical wall or screen directly in front of it. The center of the lamp is denoted by a dot on the lens. Aiming should be performed in a dark environment to effectively see the headlamp beam pattern.

Measure the centers of the headlamps’ heights to the ground and record. Mark a horizontal reference line on the vertical wall or screen at the same height as the centers of the headlamps (marked C in Fig1). The beam pattern should be adjusted for both left and right headlamps as shown in Figure 1.

Note that for VOR headlamps, the appearance of the beam pattern may vary between various manufacturers.

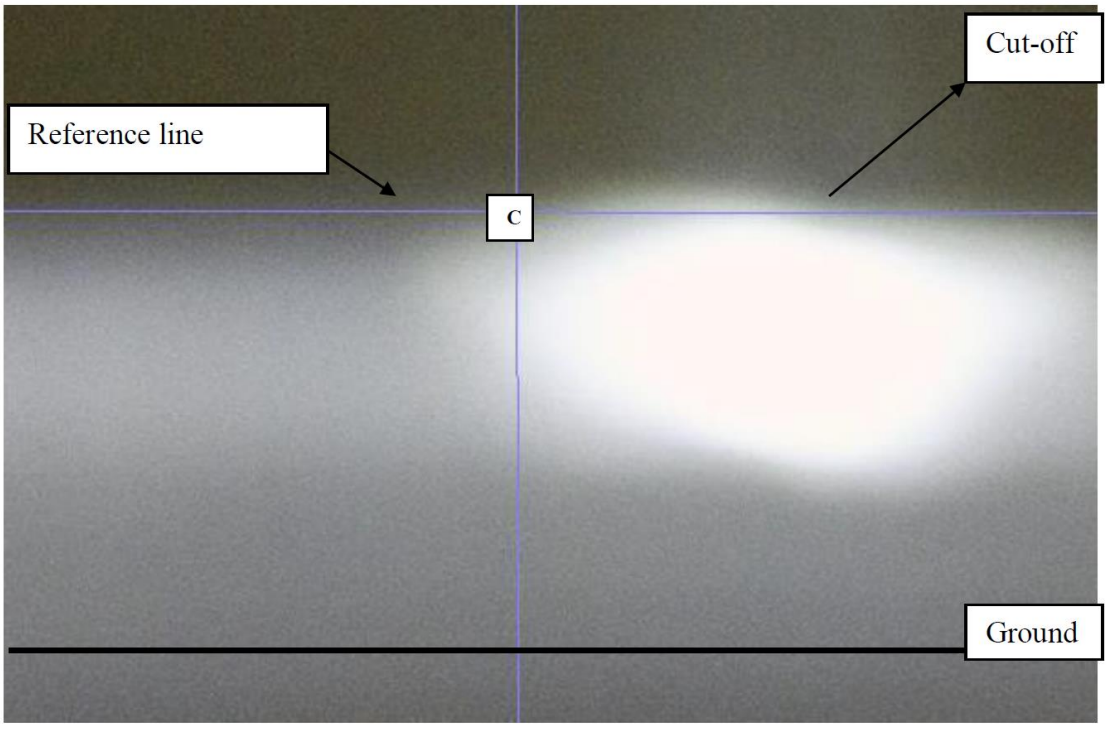


Figure 1 Dialight low beam pattern

HLC / HLB 90 mm Low Beam / High Beam
LED Vehicle Head Lights

On when it counts.

Application

- Low Beam Headlight
- High Beam Headlight

Certifications & Ratings

- FMVSS 108

Features & Benefits

- Integral wiring
- Rugged die cast housing
- Alignment screws included
- Overvoltage / transient protected
- Loom covered wires
- Visual Alignment
- 7 & 12 Year Warranty Options

Mechanical Information

Mounting Hole Size	See mounting hole pattern on page 2

Electrical Specification

Nominal Voltage	10 / 24 VDC Dual voltage operation
Typical Current	Low beam 12 VDC – 1.2 A 24 VDC – 0.58 A High beam 12 VDC – 1.75 A 24 VDC – 0.88 A

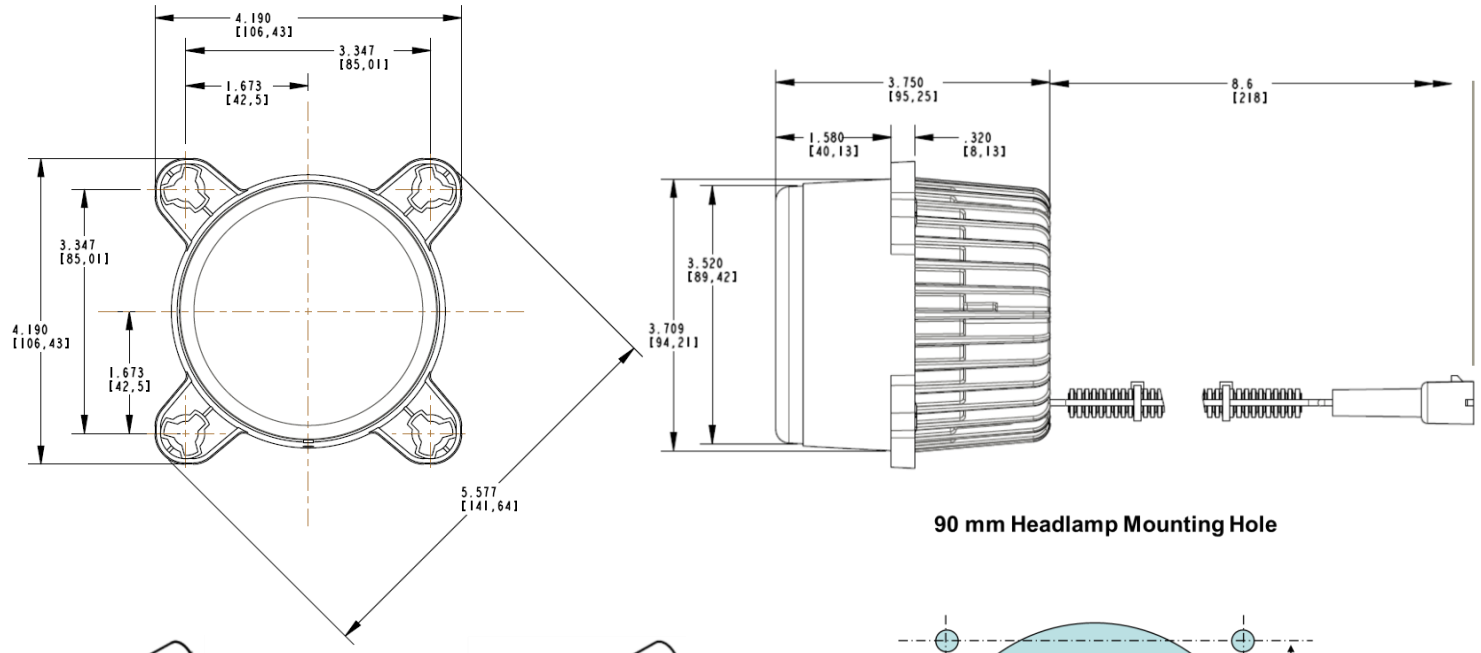
Construction

Lens Material	Hard coated polycarbonate
Housing	Anodized die cast aluminum
Sealing Method	Polyurethane
Connector*	H9 and H11 connector options

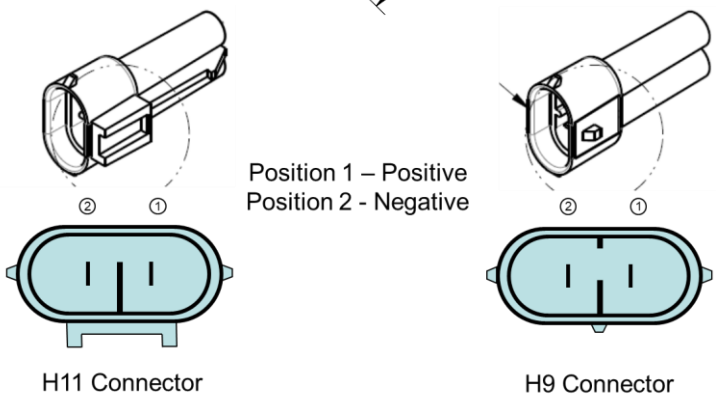
Photometric

FMVSS 108	Integral beam low / high beam

* Consult Dialight for alternate connector options



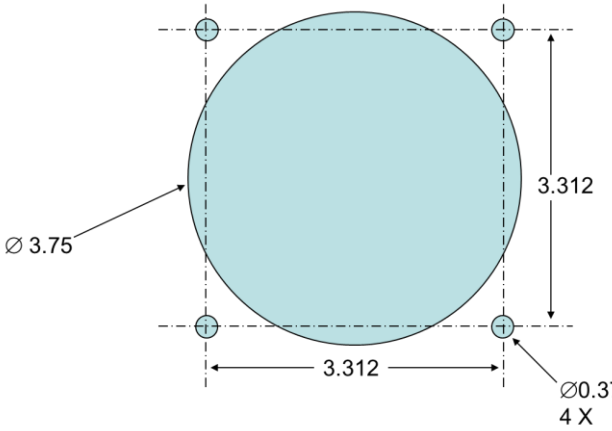
90 mm Headlamp Mounting Hole



Position 1 – Positive
Position 2 - Negative

H11 Connector

H9 Connector



Only 3 of 4 small holes required for the lamp mounting

Typical panel thickness .050"
Dimensions in inches
Drawing may not be to scale

Part Number	Function	Connector	Warranty
HLB324CB	High Beam	H11	7 Yr
HLB324CB12	High Beam	H9	12 Yr
HLB324CBH9	High Beam	H9	7 Yr
HLC324CB	Low Beam	H11	7 Yr
HLC324CB12	Low Beam	H11	12Yr
HLC324CBH9	Low Beam	H9	7 Yr

HLC / HLB 4 x 6 Low Beam / High Beam
LED Vehicle Head Lights

On when it counts.

Application

- Low Beam Headlight
- High Beam Headlight

Certifications & Ratings

- FMVSS 108

Features & Benefits

- Integral wiring
- Rugged die cast housing
- Overvoltage / transient protected
- Loom covered wires
- Visual Alignment
- 7 & 12 Year Warranty Options

Mechanical Information

Mounting Hole Size	N/A – Requires mounting bucket

Electrical Specification

Nominal Voltage	10 / 24 VDC Dual voltage operation
Typical Current	Low beam 12 VDC – 1.2 A 24 VDC – 0.58 A High beam 12 VDC – 1.75 A 24 VDC – 0.88 A

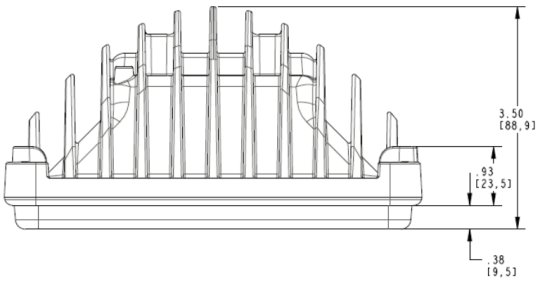
Construction

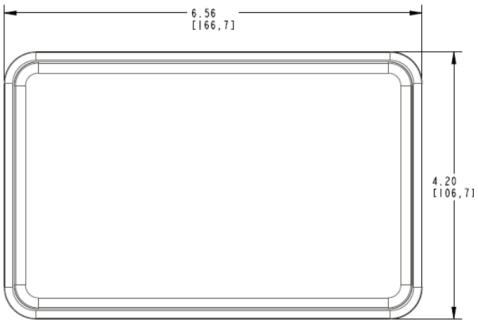
Lens Material	Hard coated polycarbonate
Housing	Anodized die cast aluminum
Sealing Method	Polyurethane
Connector*	2 / 3 prong on 6” wire harness

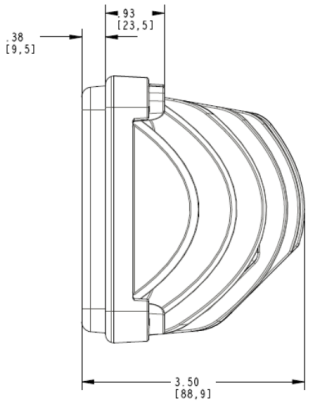
Photometric

FMVSS 108	Integral beam low / high beam

* Consult Dialight for alternate connector options

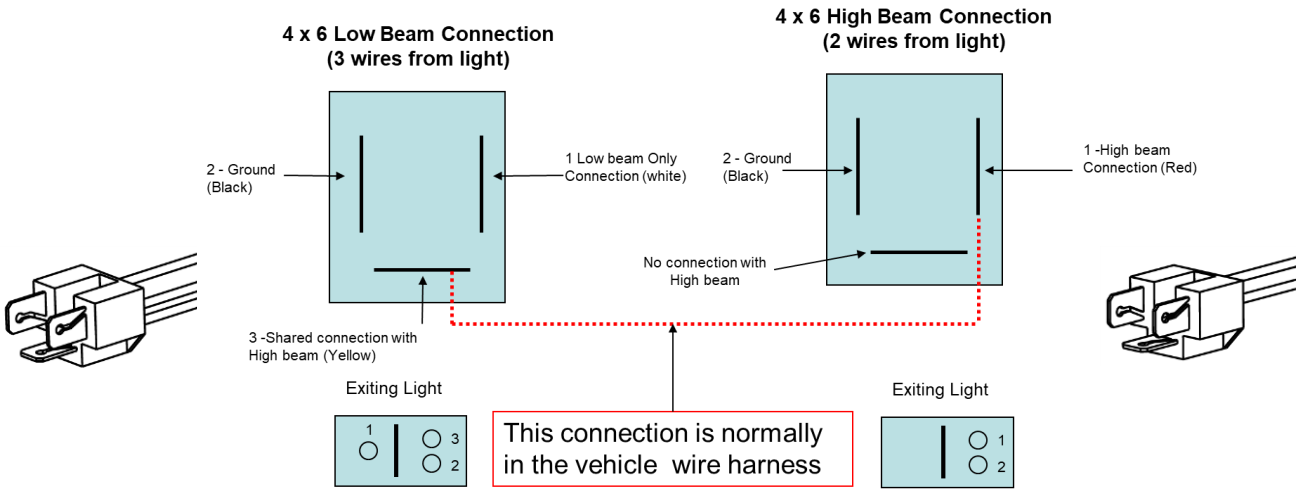






4 x 6 Headlight Connection if 4 lamp operation desired in high beam mode

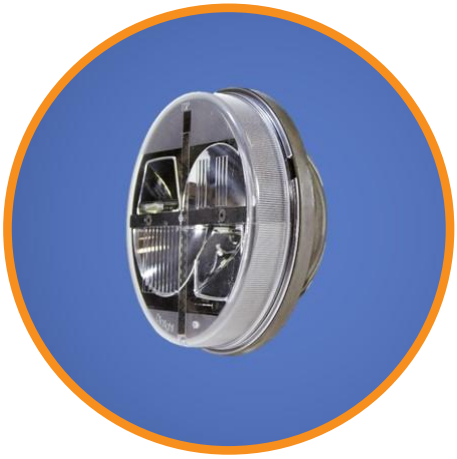
Looking into the end of the harness on light The wires are to the back in this view



Part Number	Function	Connector	Warranty
HLB424CB	High Beam	2 wire	7 Yr
HLB424CB12	High Beam	2 wire	12 Yr
HLC434CB	Low Beam	3 wire	7 Yr
HLC434CB12	Low Beam	3 wire	12 Yr

HLD 7” Duel Beam
LED Vehicle Head Lights

On when it counts.



Application

- Low Beam Headlight
- High Beam Headlight

Certifications & Ratings

- FMVSS 108

Features & Benefits

- Integral wiring
- Rugged die cast housing
- Overvoltage / transient protected
- Loom covered wires
- Visual alignment
- Optional lens heater
- 7 & 12 Year warranty options

Mechanical Information

Mounting Hole Size	N/A – Requires mounting bucket

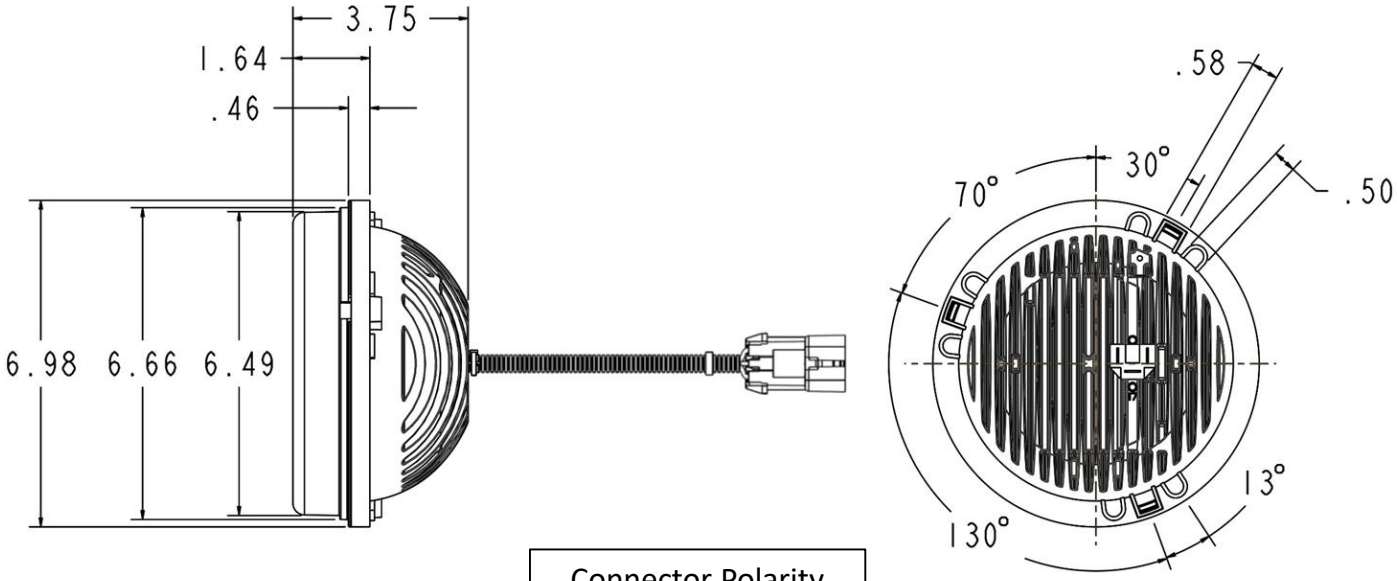
Electrical Specification

Nominal Voltage	10 / 24 VDC Dual voltage operation
Typical Power	Low beam 12 VDC – 23 W 24 VDC – 21 W High beam 12 VDC – 35 W 24 VDC – 31 W Lens h
Lens Material	Hard coated polycarbonate
Housing	Anodized die cast aluminum
Sealing Method	Polyurethane
Connector*	Delphi Metri-pak 280 15300003-B

Photometric

FMVSS 108	Integral Dual low / high beam

* Consult Dialight for alternate connector options



Connector Polarity
Pos. A = Ground
Pos. B = Low Beam
Pos. C = High Beam

Part Number	Function	Heater Option	Warranty
HLD734CB	Dual Beam	No	7 Yr
HLD734CBH	Dual Beam	Yes	12 Yr
HLD734CB12	Dual Beam	No	7 Yr
HLC734CBH12	Dual Beam	Yes	12 Yr

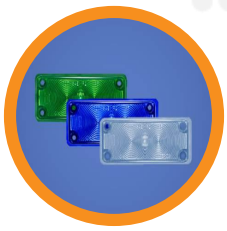
Dialight

The Leader in LED Bus Lights

LED Auxiliary, Compartment, License, and Stair / Door Lights

13 Series

- 2.5” x 1.0”
- 2.125” Screw mounting centers
- 12 VDC and 24 VDC
- Blue , White



18 Series

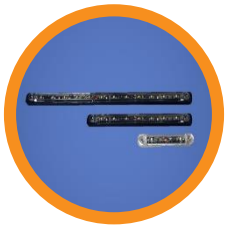
- 4.8” x 1.95”
- 4 Mounting screws 1.19 “x 3.875” pattern
- 12 VDC and 24 VDC
- Blue, White, Green

586 Series

- Bayonet based LED
- White reading / Blue seat light
- 24 VDC White
- 12 VDC blue

79 Series

- 2” x 8.5”
- 7.5” on center mounting holes
- 12 VDC, 24 VDC License light
- 12 VDC Compartment light
- White

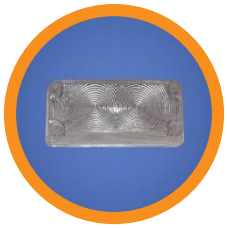


VSL Series

- 6”, 12”, 18” Strip Lights
- Clear lens
- Metal Base
- 12 VDC, 24 VDC, 10-30 VDC
- White

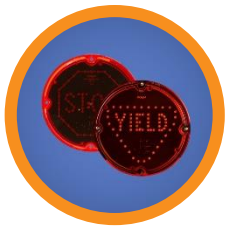
17 Series

- 2.5” Round
- Black flange mount
- 12 VDC and 24 VDC
- With and without optics
- White



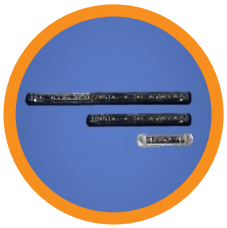
18 Series Bi-color

- 4.8” x 1.95”
- 4 Mounting screws 1.19 “x 3.875” pattern
- 12 VDC
- Red / Green output



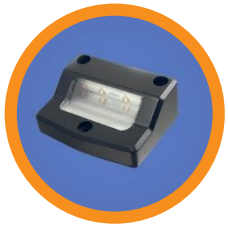
72/73 Series

- 7” Round auxiliary lights
- Stop, Yield
- 10-30 VDC
- Red



86 Series

- 6”, Strip Lights
- 12 VDC, and 24 VDC
- Amber, Red



VSW Series

- 4.2” x 3.2”
- Stairwell light
- Interior and exterior mount
- Black, white, and metallic finishes
- White

1501 Route 34 South
Farmingdale, NJ 07727
Tel. 732-751-3119
Fax. 732-751-5778

www.dialight.com

LED Light Mounting Recommendations (when no guard is used)

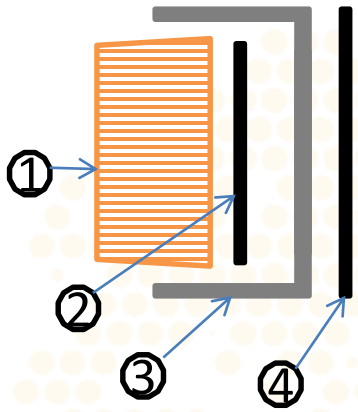
- Mounting plane for the light must be flat and not rounded
- If not provided with the light, select appropriate attachment screw such that the screw threads clear the through holes in the light
- If the light has a recessed area for the screw head, ensure the screw head has clearance between the side walls of the recess and the screw head
- For lights with gaskets position the gasket behind the light to compensate for minor surface irregularities and to seal the light to vehicle interface.
- Tighten screws to a torque of 12 to 14 in-lbs.
- Caution: Loctite is not recommended for use when installing the lights as Loctite contains chemical ingredients that are not compatible with polycarbonate materials
- Caution: Do not over-torque the screws when installing. Over- torqueing of the screws may add stress to the light that could make the light susceptible to failure from cleaning soaps that would attack the light at the stressed area resulting in potential cracking of the light.

LED Light Mounting Recommendations (when used with optional guard)

Note: the use of an additional foam gasket and guard are optional but when the guard is used it must be used in conjunction with the foam gasket supplies with the light. Guards should be utilized in applications to provide additional protection when the lights are mounted in a location where them may be exposed to physical impact from hard objects

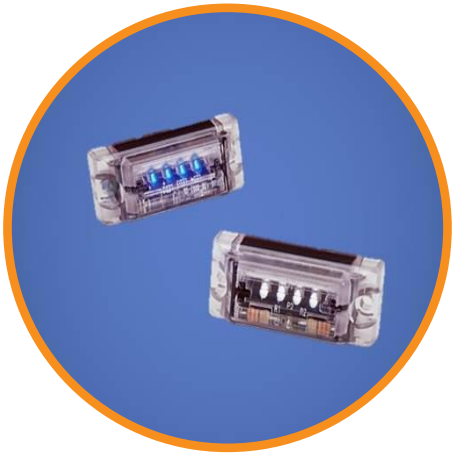
- Mounting plane for the light must be flat and not rounded
- If not provided with the light, select appropriate attachment screw such that the screw threads clear the through holes in the light
- If the light has a recessed area for the screw head, ensure the screw head has clearance between the side walls of the recess and the screw head
- Position light (1) and gasket (2)into the guard (3)
- Place gasket that additional gasket (4)between the back of the guard and the bus
- Mount the light with guard / gaskets to the bus positioning a nylon washer underneath the screw head so that the screw head does not dig into the polycarbonate lens.
- Mounting torque should be limited to 12 -14 in-lbs.
- Caution: Loctite is not recommended for use when installing the lights as Loctite contains chemical ingredients that are not compatible with polycarbonate materials
- Caution: Do not over-torque the screws when installing. Over- torqueing of the screws may add stress to the light that could make the light susceptible to failure from cleaning soaps that would attack the light at the stressed area resulting in potential cracking of the light.

Item	Description
1	Light
2	Foam Gasket
3	Light Guard
4	Additional Foam Gasket



13 Series – Auxiliary Lights
LED Vehicle Lighting

On when it counts.



Application

- Under Seat Light
- Aisle Light

Features & Benefits

- Integral wiring
- Small footprint
- Clear Lens
- Reverse polarity protected
- Maintenance saving

Mechanical Information

Mounting Hole Size	0.5 in (12.7 mm)
Mounting Torque	12 – 14 in-lbs.

Electrical Specification

Nominal Voltage	12 VDC and 24 VDC
Typical Current	12 VDC – 30 mA @ 12.8 VDC 24 VDC – 15 mA @ 24 VDC

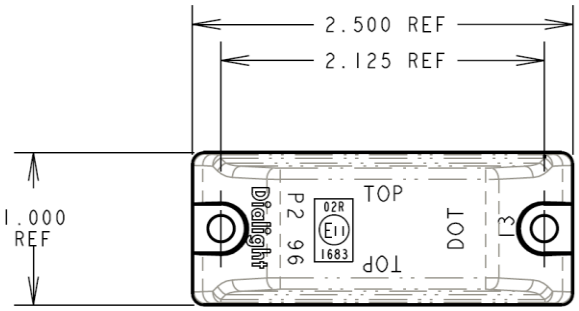
Construction

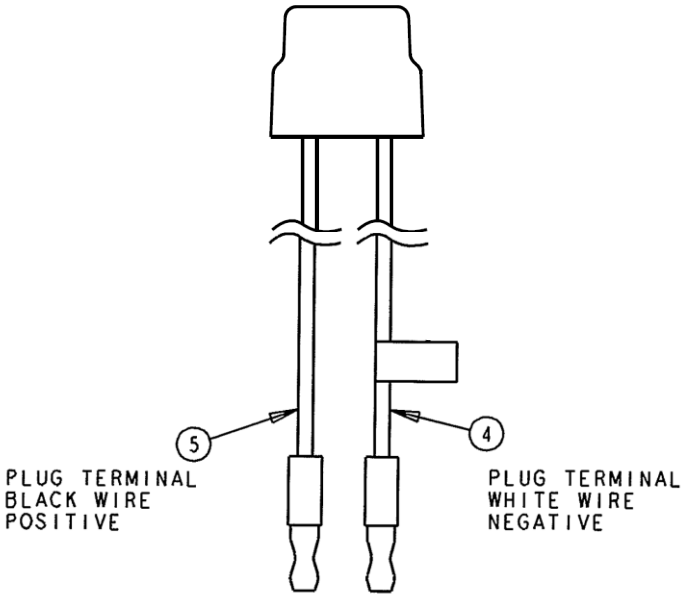
Lens Material	Polycarbonate
Sealing	Potted design
Gasket Material	Closed cell foam
Connector*	.180 bullet terminals White wire +, Black wire –

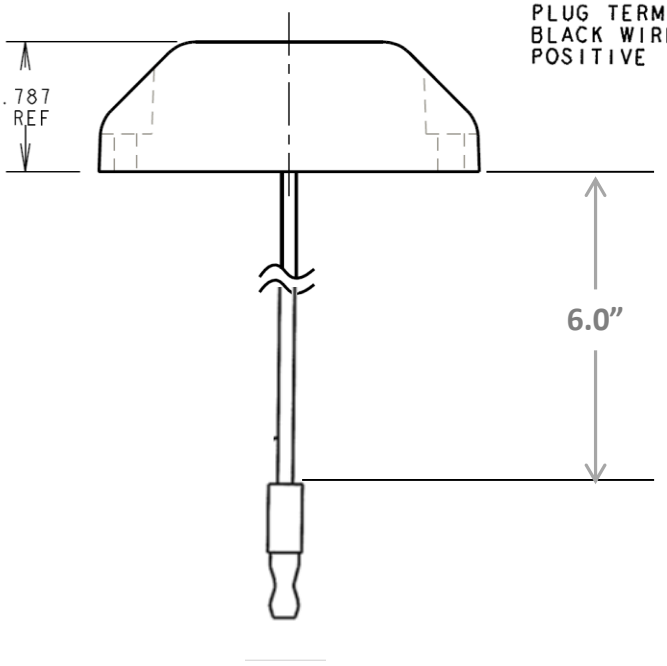
Photometric

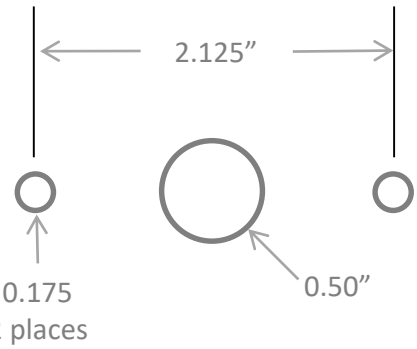
Mounting Limits	Horizontal mount ± 5° slope

* Consult Dialight for alternate connector options









Part Number	Color	Voltage
13001BB	Blue	12 VDC
13001CB	White	12 VDC
13003BB	Blue	24 VDC
13003CB	White	24 VDC

17 Series – 2.5” White Light
LED Vehicle Lighting

On when it counts.

Application

- Auxiliary White Light
- Fare box Light
- Drivers Light
- Stepwell light

Features & Benefits

- Integral wiring
- Black Flange Mount
- 10° Angled mounting grommet option
- Closed cell foam gasket option
- Versions with or without optics
- Reverse polarity protected
- Maintenance saving

Mechanical Information

Mounting Hole Size	2 3/4” for flange mount

Electrical Specification

Nominal Voltage	12 VDC and 24 VDC
Typical Current	12 VDC - 175 mA @ 13.5 VDC 24 VDC - 80 mA @ 25 VDC

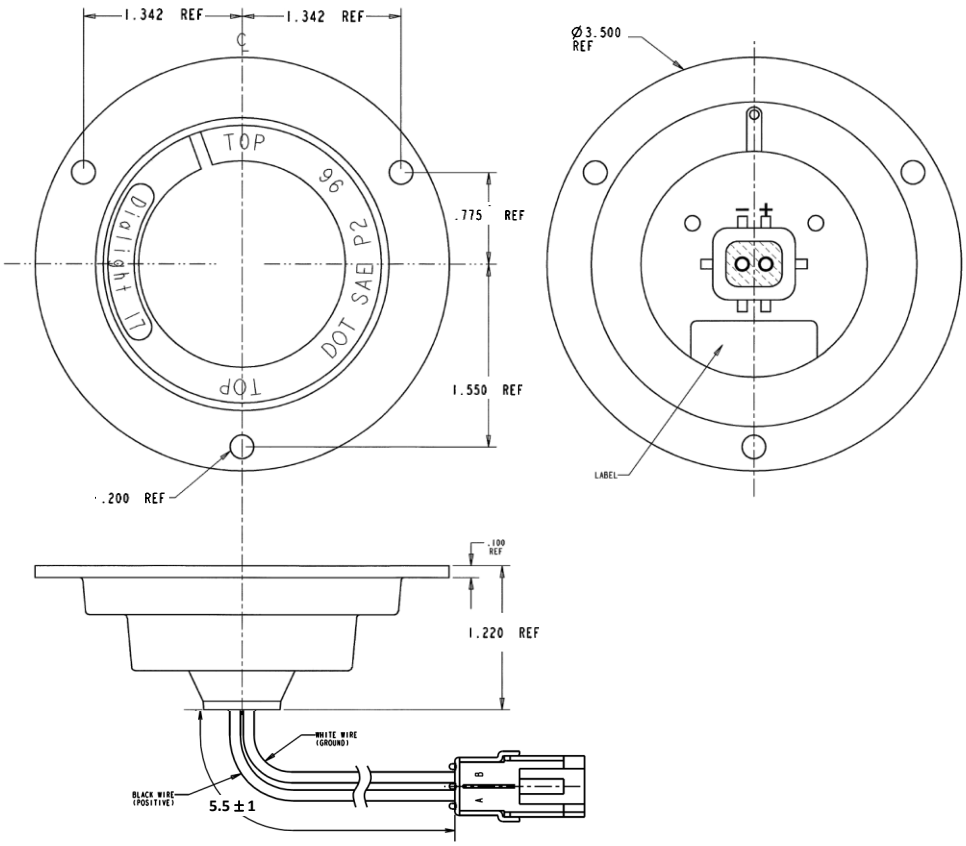
Construction

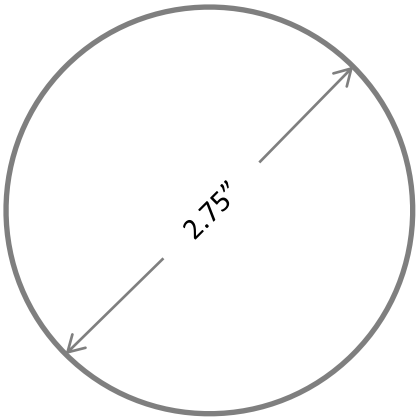
Lens Material	Polycarbonate
Housing material	Polycarbonate
Sealing Method	Vibration welded
Connector*	Delphi 1201-0973 + to position A – to position B

Photometric

Optical Pattern	w/ optics: 55 lm typical 45° x 10 degree beam w/o optics 60 lm typical 20° circular beam

* Consult Dialight for alternate connector options



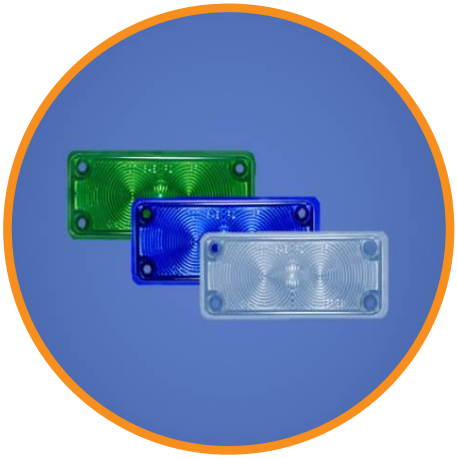


Suggested mounting hole

Part Number	Color	With Optics in Lens	Voltage
17081CB	White	Yes	12 VDC
17081CB802	White	No	12 VDC
17083CB	White	Yes	24 VDC
17083CB803	White	No	24 VDC

18 Series – Auxiliary Light
LED Vehicle Lighting

On when it counts.



Application

- Door status indication
- Aisle light
- Under seat light
- Compartment light

Features & Benefits

- Light emits from 5 surfaces
- Integral wiring
- Low profile
- Flexible mounting
- Reverse polarity protected
- Maintenance saving
- Lamp guards available

Mechanical Information

Mounting Hole Size	1.84” (46.7 mm)
Mounting Torque	12 – 14 in-lbs.

Electrical Specification

Nominal Voltage	12 VDC and 24 VDC
Typical Current	Blue 12 VDC – 150 mA @ 12.8 VDC 24 VDC – 60 mA @ 24 VDC Green 12 VDC – 40 mA @12 .8 VDC 24 VDC – 20 mA @ 24 VDC White 12 VDC – 140 mA @ 12.8 VDC 24 VDC – 70 mA @ 24 VDC

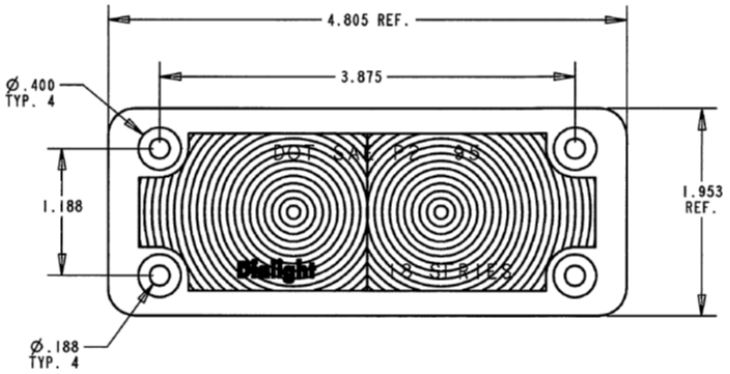
Construction

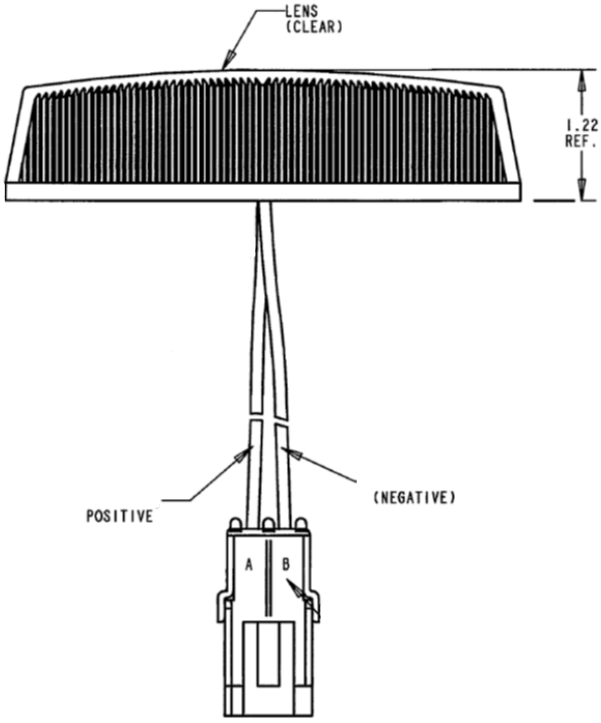
Lens Material	Polycarbonate
Housing material	Polycarbonate
Sealing Method	Vibration Welded
Gasket Material	Closed cell foam
Connector*	Delphi 1201-0973 + to position A – to position B

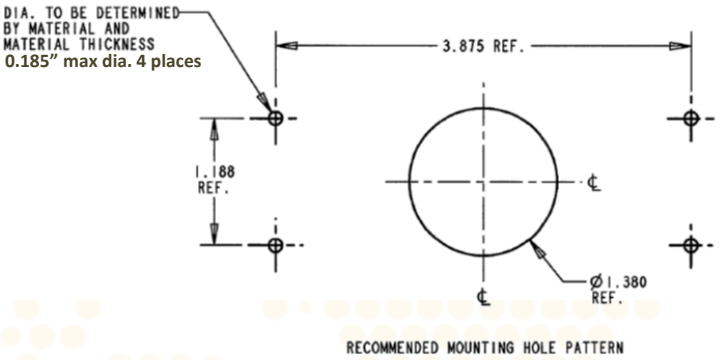
Photometric

Mounting Limits	Horizontal or vertical

* Consult Dialight for alternate connector options





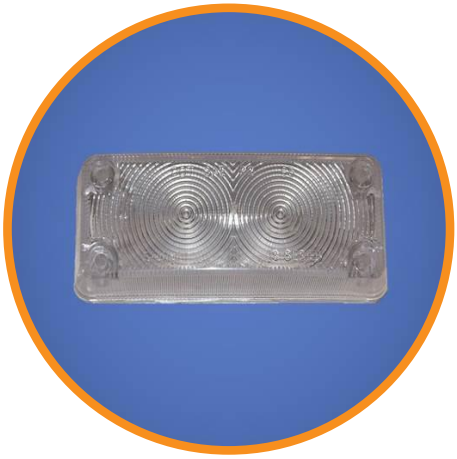


RECOMMENDED MOUNTING HOLE PATTERN

Part Number	Color	Voltage
18001BB	Blue	12 VDC
18001CB	White	12 VDC
18001GB	Green	12 VDC
18011BB801	Blue	24 VDC
18011CB802	White	24 VDC
18011GB	Green	24 VDC

18 Series – Red/Green Door Lights
LED Vehicle Lighting

On when it counts.



Application

- LED Door Indicator

Features & Benefits

- Bi-color for positive door status indication
- Light emitted from 5 surfaces
- Integral wiring
- Flexible mounting
- Reverse polarity protected
- Maintenance saving
- Lamp guards available

Mechanical Information

Mounting Hole Size	1.84” (46.7 mm)
Mounting Torque	12 – 14 in-lbs.

Electrical Specification

Nominal Voltage	12 VDC
Typical Current	Red – 60 mA @ 12.8 VDC Green – 60 mA @ 12.8 VDC

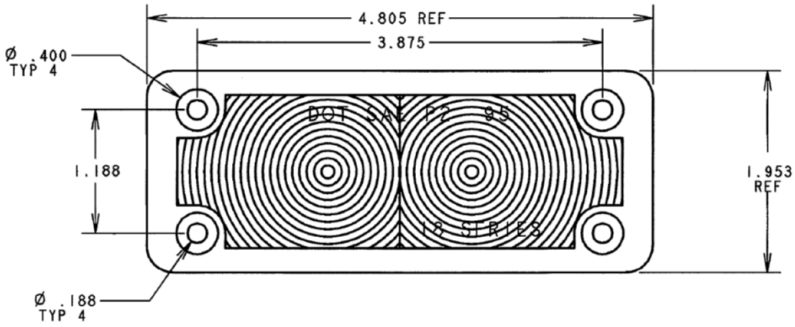
Construction

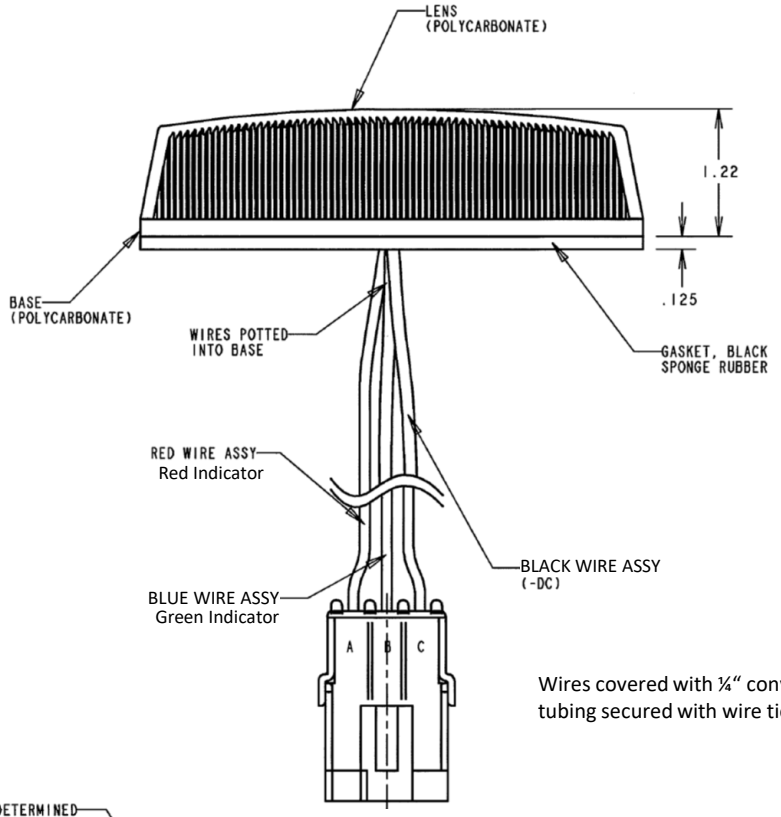
Lens Material	Polycarbonate
Housing material	Polycarbonate
Sealing Method	Vibration Welded
Gasket Material	Closed cell foam
Connector*	Delphi 1201-5793 Red to position A, Green to position B, ground to Position C

Photometric

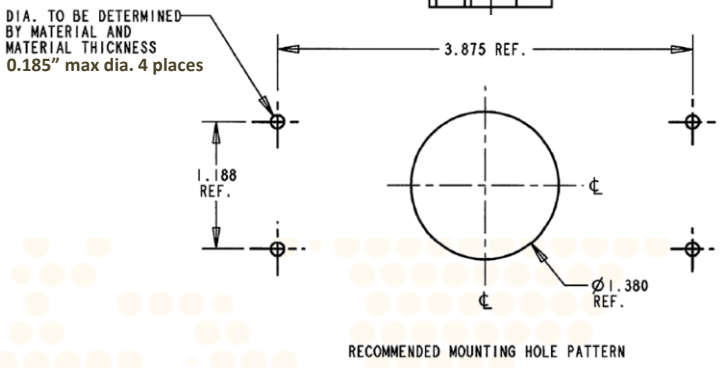
Output	Top – Red 5 cd, Green 6 cd Side – Red 4 cd, Green 5 cd End – Red 2.5 cd, Green 3 cd
Mounting Limits	Horizontal or vertical

* Consult Dialight for alternate connector options





Wires covered with ¼“ convoluted loom tubing secured with wire ties (not shown)



RECOMMENDED MOUNTING HOLE PATTERN

Part Number	Color	Voltage
18001CB-805	Red / Green	12 VDC

586Series – Auxiliary Lights
LED Vehicle Lighting

On when it counts.

Application

- White reading light
- Blue under seat aisle light

Features & Benefits

- Incandescent replacement
- Bayonet base
- Extended housing style offered on reading light
- Maintenance saving

Electrical Specification

Nominal Voltage	12 VDC Blue 24 VDC White
Typical Current	12 VDC – 70 mA @ 12 VDC 24 VDC – 35 mA @ 24 VDC

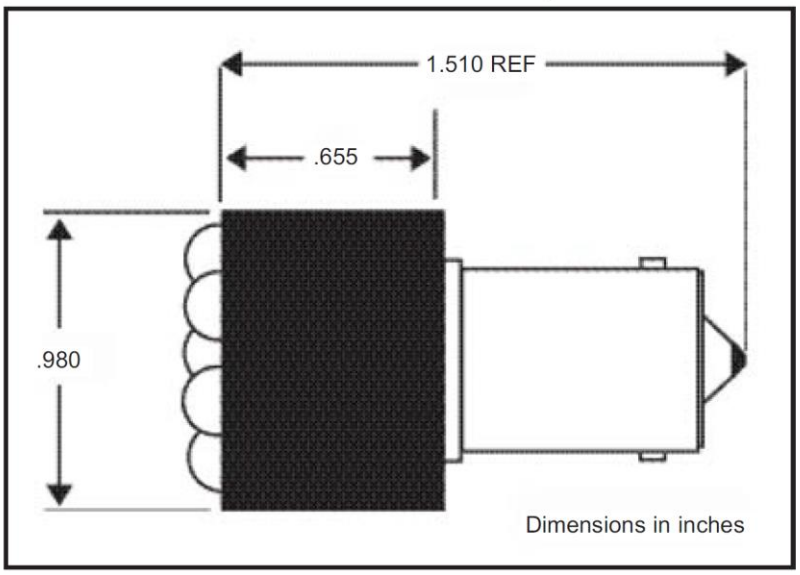
Construction

Shroud Material	Polycarbonate
Base material	Nickel plated Brass
Polarity	Center contact - Positive

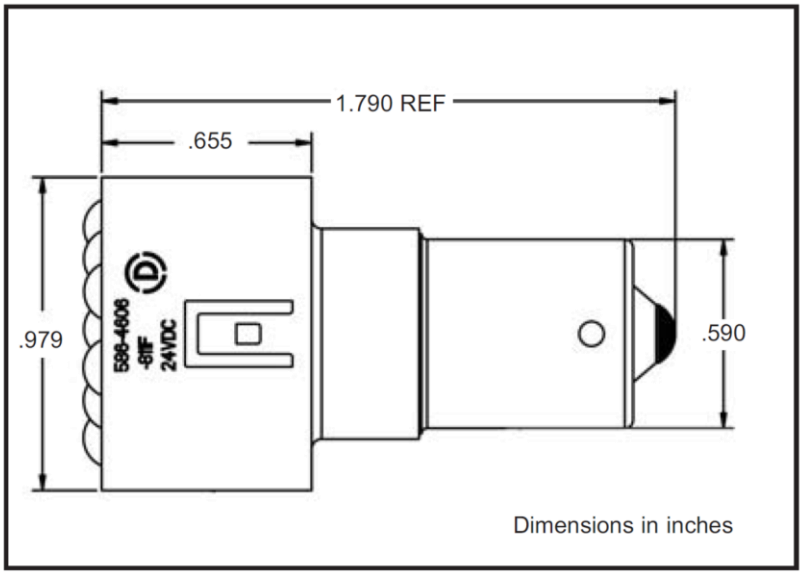
Photometric

Output	Blue – 7,000 mcd White – 46,000 mcd

Standard Housing



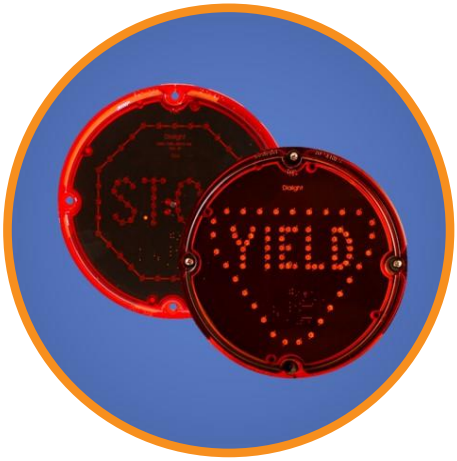
Extended Housing



Part Number	Color	Voltage	Housing Style
586-4605-802	Blue	12 V	Standard
586-4606-801	White	24 V	Standard
586-4606-811F	White	24 V	Extended

72/73 Series – 7” Yield / Stop Lights
LED Vehicle Lighting

On when it counts.



Application

- Yield to Bus Warning
- Auxiliary Stop Graphic

Features & Benefits

- Integral wiring
- Potted designs
- Surface mounted
- Reverse polarity protected
- Maintenance saving
- Enhanced Safety

Mechanical Information

Mounting Hole Size	See mounting hole pattern on page 2
Mounting Torque	12 – 14 in-lbs.

Electrical Specification

Nominal Voltage	10 - 30 VDC
Power	4.2 Watts

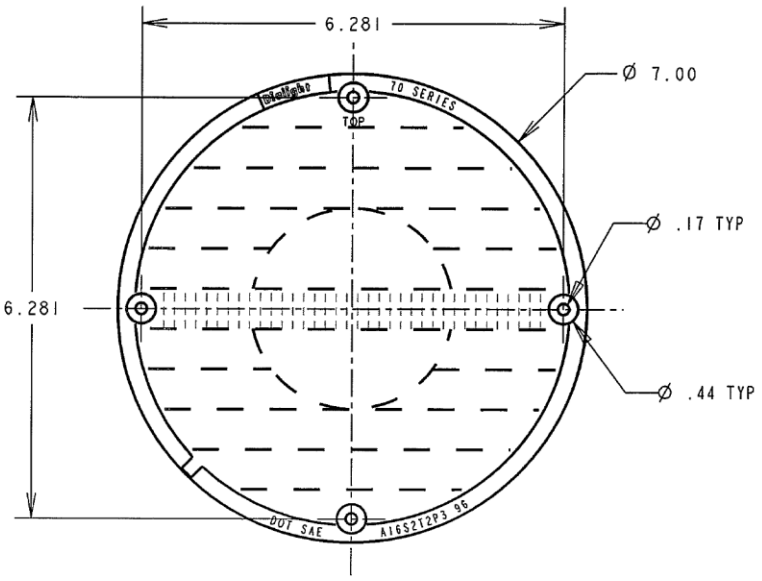
Construction

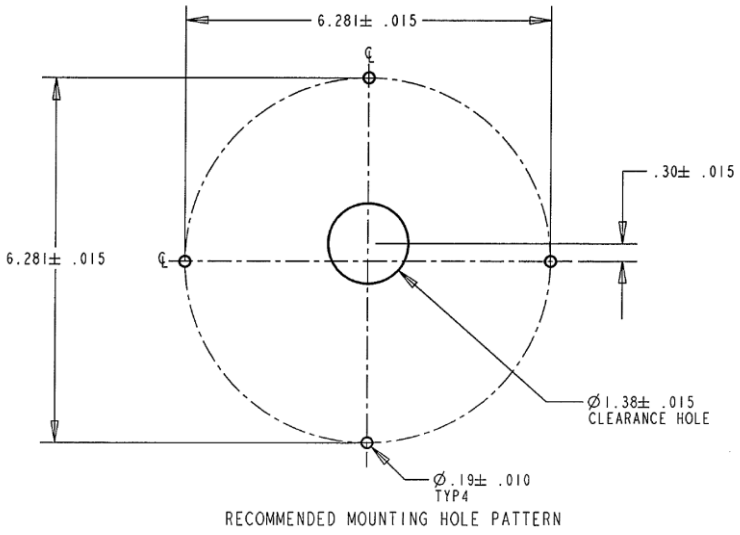
Lens Material	Hard coated polycarbonate
Sealing Method	Potted
Connector*	Delphi 1201-5792 + to position A – to position B

Photometric

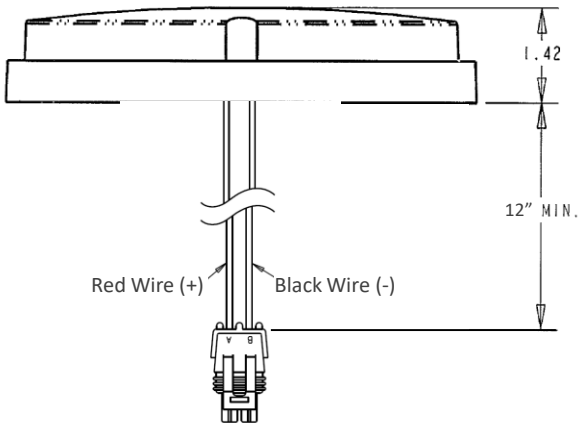
Peak Intensity	140 cd

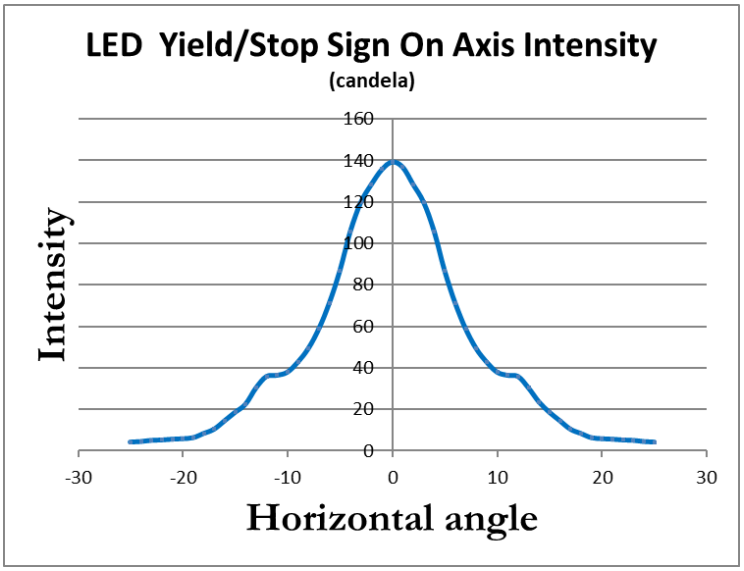
* Consult Dialight for alternate connector options





RECOMMENDED MOUNTING HOLE PATTERN





Part Number	Color	Icon	Voltage
72124RB	Red	Yield	10 - 30 VDC
73124RB	Red	Stop	10 - 30 VDC

79 Series – License / Compartment Lights
LED Vehicle Lighting

On when it counts.

Application

- FMVSS 108 License Plate Light
- Compartment Light

Features & Benefits

- Integral wiring
- Potted low profile design
- Surface mounted
- Reverse polarity protected
- Maintenance saving
- Foam sealing gasket included

Mechanical Information

Mounting Hole Size	2 - .250 screw holes on 7.5” centers
Mounting Torque	12 – 14 in-lbs.

Electrical Specification

Nominal Voltage	12V and 24 VDC
Typical current	License Plate 12 VDC – 180 mA, 24 VDC – 50 mA Compartment Light 12 VDC – 350 mA

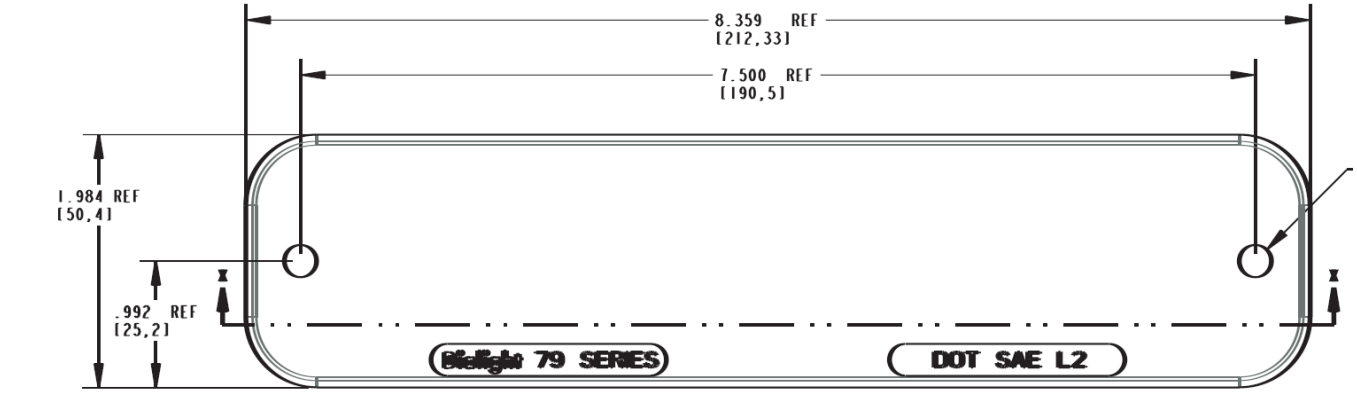
Construction

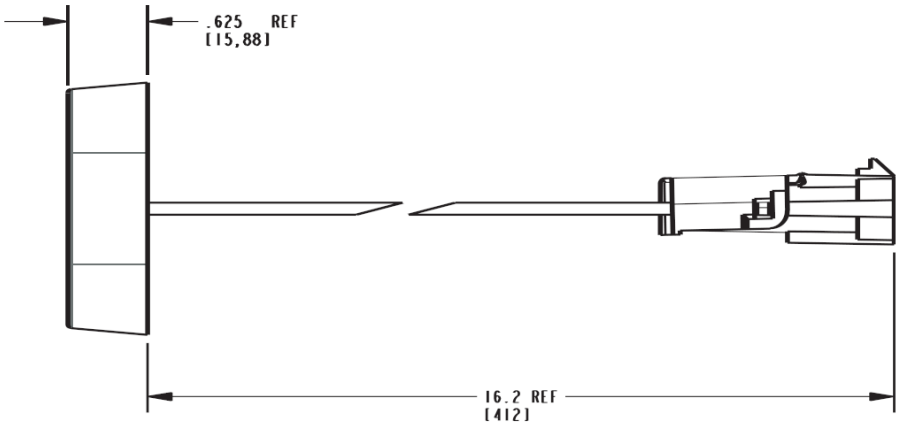
Lens Material	Hard coated polycarbonate
Sealing Method	Potted
Connector*	Delphi 1201-0973 + to position A – to position B

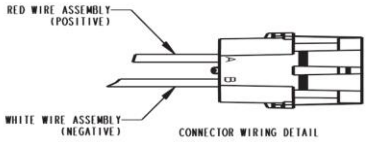
Photometric

License Plate	FMVSS108 Compliant
Compartment	130 LM output

* Consult Dialight for alternate connector options





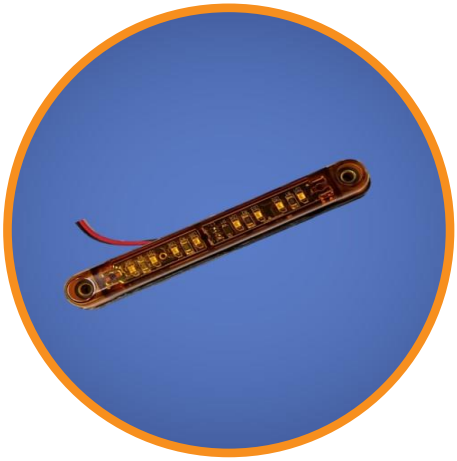


Part Number	Application	Voltage
79001CB	License Plate	12 V
79123CB	License Plate	24 V
79391CB	Compartment	12V

86 Series – 6” Auxiliary Strip Light

LED Vehicle Lighting

On when it counts.



Application

- Auxiliary Turn
- Auxiliary Stop

Features & Benefits

- Integral wiring
- Potted design
- Reverse polarity protected
- Surface mounted
- Maintenance saving

Mechanical Information

Mounting Hole Size	See pattern on page 2
Mounting Torque	12 – 14 in-lbs.

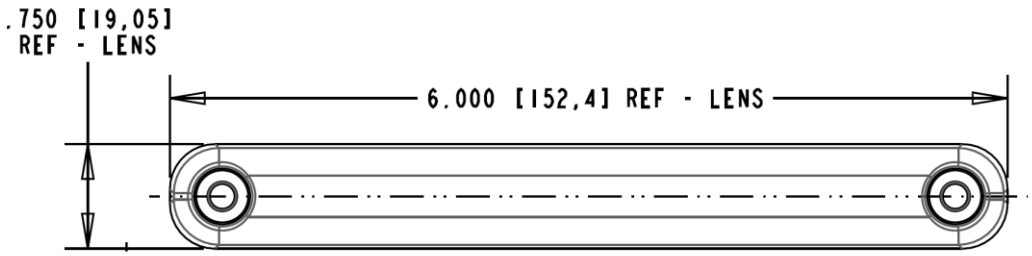
Electrical Specification

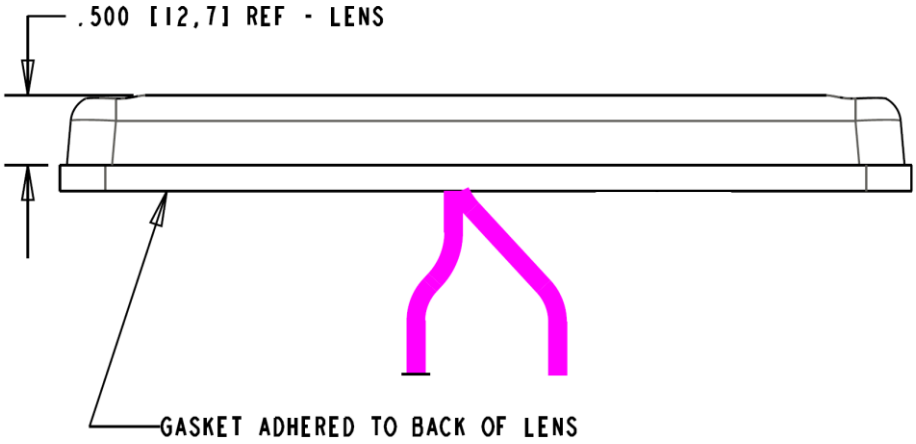
Nominal Voltage	12 VDC and 24 VDC
Typical Current	12 VDC – 160 mA @ 12.8 VDC 24 VDC – 75 mA @ 25.6 VDC

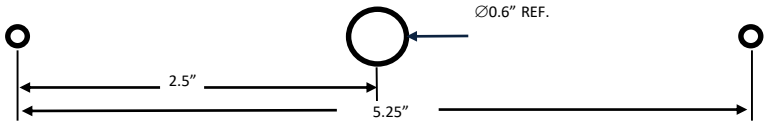
Construction

Lens Material	Hard coated polycarbonate
Gasket Material	Closed cell foam with PSA
Sealing Method	Potted
Termination*	12” Bare wires, Red Positive, Black Negative

* Consult Dialight for alternate termination options







Mounting Hole Spacing

Part Number	Color	Voltage
86121AB	Amber	12 VDC
86121RB	Red	12 VDC
86123AB	Amber	24 VDC

VSL Series 6”, 12” 18” White strip Lights

LED Vehicle Lighting

On when it counts.

Application

- High Intensity Lighting
- Doorway Light
- Aisle Light
- Compartment Lighting

Features & Benefits

- Fully sealed
- Integral Wiring
- Rugged Shatterproof Lens
- Shock and Vibration Resistant
- Reverse polarity protected
- Maintenance saving

Mechanical Information

Mounting Hole Size	See mechanical drawing
Mounting Torque	12 – 14 in-lbs.

Electrical Specification

Nominal Voltage	10-30 VDC and 24 VDC
Typical current	See chart on next page

Construction

Lens Material	Hard coated polycarbonate
Base Material	Aluminum
Sealing Method	Polyurethane seal
Connector*	Delphi 1201-0973 + to position A – to position B VSLCC16B35802 uses Deutsch DT04=2P + to position 1 – to position 2

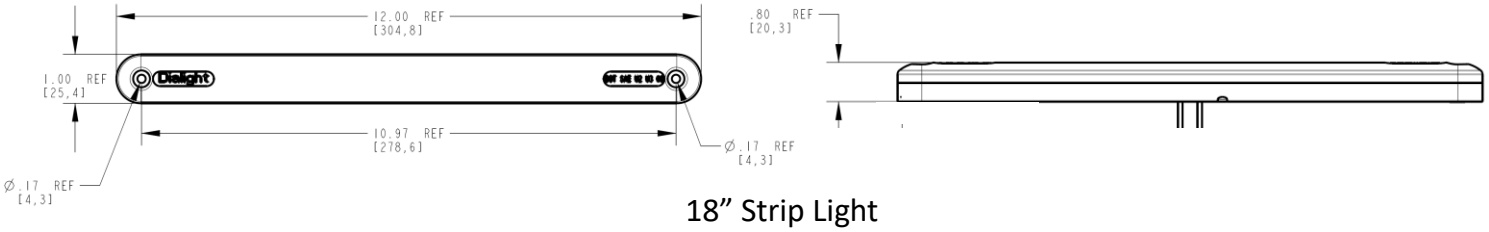
Photometric

Color Temp	6500K
6” VSLCC15	125 – 200 LM output
12” VSLCC16	350 LM output
18” VSLCC17 / 37	500 LM output

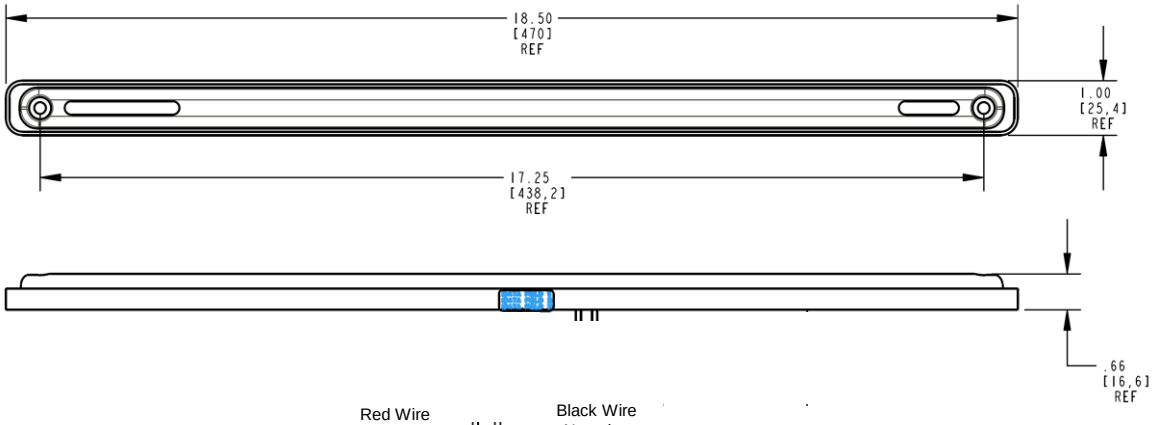
* Consult Dialight for alternate connector options

6” Strip Light

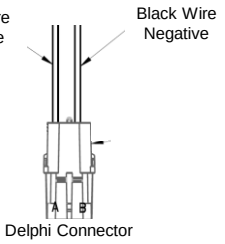
12” Strip Light



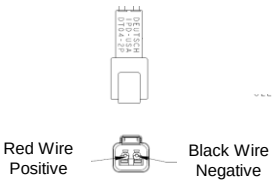
18” Strip Light



Typical Wire Length 18”



Delphi Connector

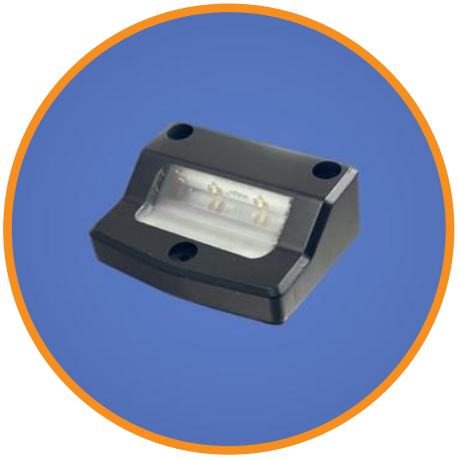


Deutsch Connector

Part Number	Size	Voltage	Typical Current		Base Color	Lens	LM Output
			12 VDC	24 VDC			
VSLCC15B35801	6"	10-30 VDC	320 mA	135 mA	Black	Textured	125
VSLCC15B35802	6"	10-30 VDC	600 mA	250 mA	Black	Clear	200
VSLCC15M35804	6"	10-30 VDC	600 mA	250 mA	Aluminum	Clear	200
VSLCC16B35801	12"	10-30 VDC	550 mA	230 mA	Black	Clear	350
VSLCC16B35802	12"	10-30 VDC	550 mA	230 mA	Black	Clear	350
VSLCC17B35802	18"	10-30 VDC	890 mA	370 mA	Black	Clear	500
VSLCC37B35809	18"	24 VDC	---	1000 mA	Black	Clear	500

VSW Series Stepwell Light
LED Vehicle Lighting

On when it counts.



Application

- ADA Doorway Light
- Aisle Light

Features & Benefits

- Fully sealed
- Integral Wiring
- Rugged Shatterproof Lens
- Shock and Vibration Resistant
- Reverse polarity protected
- Maintenance saving

Mechanical Information

Mounting Hole Size	See mechanical drawing
Mounting Torque	12 – 14 in-lbs.

Electrical Specification

Nominal Voltage	10-30 VDC
Typical current	110 mA @ 24 VDC

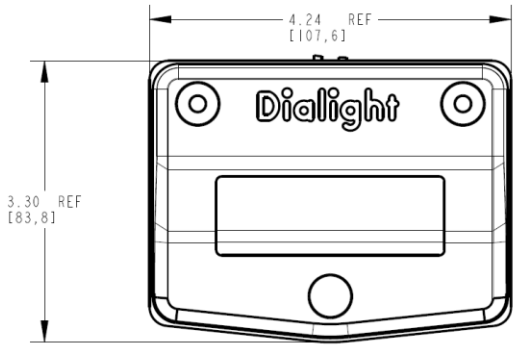
Construction

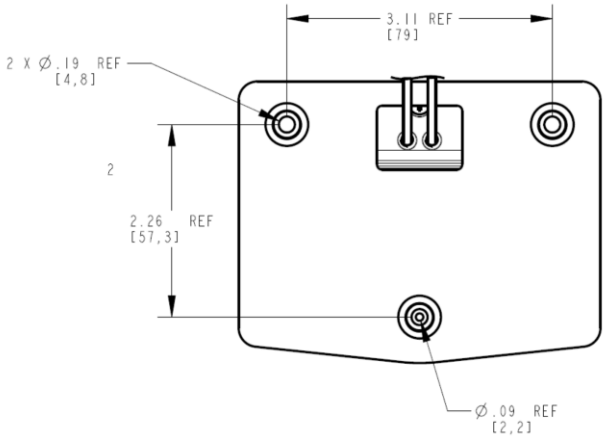
Lens Material	Hard coated polycarbonate
Sealing Method	Potted
Gasket Material	Closed cell foam
Connector*	Delphi 1201-5791 positive Delphi 1201-0996 negative

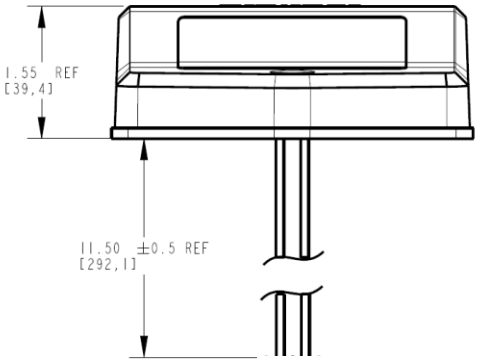
Photometric

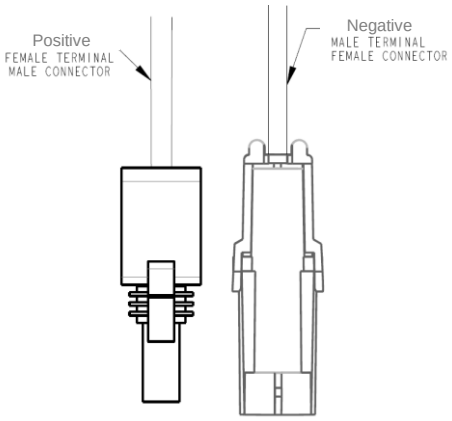
Color Temp	6500K
Illumination area	1ft-cd over 3’ x 3” area

* Consult Dialight for alternate connector options









Part Number	Housing Color	Voltage
VSWCC19B35801	Black	10 - 30 VDC
VSWCC19C35802	White	10 - 30 VDC
VSWCC19M35803	Chrome	10 - 30 VDC

Vehicle Lighting Mounting Accessories

Accessory Part No.	Description	Series Used on
90601S	90mm Adjustment screw kit	90 mm HLC / HLB
91304A	13 Series 1.25" x 2.75" x 0.125" thick foam gasket	13
91502A	15 Series Single armor guard, aluminum	15
91504A	15 Series 0.68" x 3.8" x .188" thick foam gasket	15
91601A	16 Series Mounting grommet	16
91701A	17 Series Mounting grommet	17
91704A	17 Series 3.5" dia. X 0.188" thick foam gasket	17 Flanged only
91704N804	17 Series Flange 10° mounting gasket	17 Flanged only
91802A	18 Series Single armor guard, aluminum	18
91802D	18 Series Single armor guard, stainless steal	18
91802N801	18 Series Single armor guard, with white powder coating	18
91804A	18 series 2.25" x 5" x 0.188" thick foam gasket	18
91804N803	Smaller 18 series 1.79" x 4.64" x 0.125" thick foam gasket	18
91809A	18 series 1 3/4" mounting screw and washer kit (1 each	18
91898A	18 Series Hardware Kit (4 each Screw and Washer)	18
92004A	20 Series 1.85" x 4.2" x 0.125" thick foam gasket w/PSA on one side	20
94001A	4" Round Mounting grommet	46, 48
94004A	40 Series 5.5" dia x 0.188" thick foam gasket	46, 48 Flanged only
94012B	3 way packard connector kit - Male conn/Female pins	18, 46, 48, 68, 70, 80, 84
94012C	3 way packard connector kit - Female conn / Male pins	18, 46, 48, 68, 70, 80, 84
94015D	4" Stainless Steel Trim Ring	46, 48 Flanged only
94502A	45 Series single Armor Guard	45
94504A	45 series 1.63' x 4.0" x 0.125 thick foam gasket	45 Standard
94511B	2 way packard connector kit - Male conn / Female pins	13, 15, 16, 17, 18, 20, 46, 48, 68, 69, 70, 71, 80, 84
94511C	2 way packard connector kit - Female conn / Male pins	13, 15, 16, 17, 18, 20, 46, 48, 68, 69, 70, 71, 80, 84
96001A	2 x 6 oval Mounting grommet	68, 69
96001A801	2 x 6 oval Mounting grommet w/ square corners	68, 69
96004A	60 Series 3.3" x 7.55" x 0.188" thick foam gasket	68, 69 Flanged only
96015D	Oval stainless steel trim ring	68, 69 Flanged only
97004A	7" Round foam gasket	70, 71, 72, 73
97098A	70 series mounting hardware kit	70, 71, 72, 73

Additional Vehicle LED Solutions from Dialight

Dialight's Optoelectronics group is your source for a variety of products to address your indication needs. Some examples of additional applications on the vehicle that Dialight provides LED solutions would include:

- Engine retarder indication light
- Dial and switch illumination
- Power status indication

Below are some typical examples of other Dialight products that have been used in a variety of heavy duty vehicle applications. Contact Dialight to find out more about solutions to your indication needs.

556 Series

- 1" Indicator
- Nickel plated brass
- IP66 rated
- 12 VDC and 24 VDC
- Flat and Dome Lens

557 Series

- 11/16" Indicator
- Polycarbonate lens / housing
- 6" wire leads
- 12 VDC and 24 VDC

656 Series

- 1/2" Indicator
- Nickel plated brass
- NEMA 4X rated
- 12 VDC and 24 VDC
- Flat and Dome Lens
- Wire leads or terminals

657 Series

- 11/16" Indicator
- NEMA 4X / IP67 rated
- Direct view and Right Angle version available
- Polycarbonate lens / housing
- 6" wire leads
- 12 VDC and 24 VDC

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