

## 0-441-90 - Super Slim Amber LED Warning Lamp 11-32VDC

Durite super slim AMBER LED warning light is an extremely versatile warning device. It is available in single and tri-colour options to meet the needs of all applications from amber safety and commercial vehicles to emergency services and covert vehicles. The lamp features a strong polycarbonate lens on an aluminium body to maximise protection from debris impact and to absorb heat dispersion. This product also boasts major industry requirements such as IP69K for the toughest environments, EMC R10, ECE R65 approvals and comes as standard with 7 flash patterns including ICAO/CAP168 airport pattern. It includes an industry first TD-Sync feature allowing users to synchronise and direct traffic with this inbuilt capability.



**THE TRUSTED QUALITY BRAND FOR PROFESSIONALS**

## **WARNINGS**

Before using this unit please read these instructions carefully. Take special care to follow the warnings and safety suggestions listed below. Keep these instructions for future reference. There are no user-serviceable parts within the unit, refer servicing to qualified service personnel.

## **PRECAUTIONS**

1. Proper installation of this product requires the installer to have a good understanding of automotive electronics, systems and procedures.
2. If mounting this product requires drilling holes, the installer **MUST** be sure that no vehicle components or other vital parts could be damaged by the drilling process. Check both sides of the mounting surface before drilling begins. Also de-burr the holes and remove any metal shards or remnants.
3. Do not install this product or route any wires in the deployment area of your air bag. Equipment mounted or located in the air bag deployment area will damage or reduce the effectiveness of the air bag, or become a projectile that could cause serious personal injury or death. Refer to your vehicle owner's manual for the air bag deployment area. The User/Installer assumes full responsibility to determine proper mounting location, based on providing ultimate safety to all passengers inside the vehicle.
4. Do not attempt to activate or control this device in a hazardous driving situation.
5. This product contains either strobe light(s), halogen light(s), high-intensity LEDs or a combination of these lights. Do not stare directly into these lights. Momentary blindness and/or eye damage could result.
6. Use only soap and water to clean the outer lens. Use of other chemicals could result in premature lens cracking (crazing) and discoloration. Lenses in this condition have significantly reduced effectiveness. Inspect and operate this product regularly to confirm its proper operation and mounting condition.
7. It is recommended that these instructions be stored in a safe place and referred to when performing maintenance and/or reinstallation of this product.
8. For this product to operate at optimum efficiency, a good electrical connection to chassis ground must be made. The recommended procedure requires the product ground wire to be connected directly to the **NEGATIVE (-)** battery post.

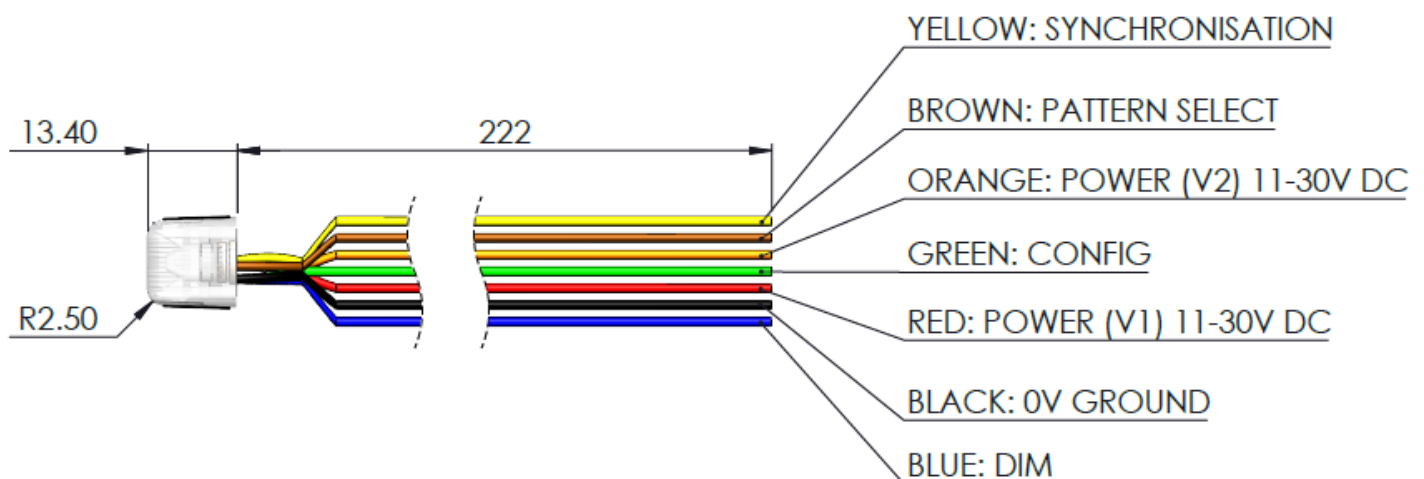
## FEAUTURES AND BENEFITS

- Single and tri-colour colour options
- Tri-colour includes white perimeter light function
- Ultra-bright latest generation LEDs
- Unique designed wide angle intense optic
- Ultra-strong UV stabilised polycarbonate lens
- R65 Class II approved (blue and amber)
- EMC R10 compliant
- IP69K protection against dust and water ingress
- Cruise and GATSO light features available
- Integrated TD-Sync feature
- Multiple unit synchronisation
- CAP168/ICAO airport flash
- Night and day (dim mode)
- Includes air vent
- Amps/current peak max: 600mA
- Operating temperature -40°C to +105°C
- LED Power: 18watts
- Voltage: 11-32VDC
- Weight: 38g

## FLASH PATTERNS

1. Quad
2. Triple
3. Double
4. Single
5. Quad/single
6. Quad/triple/double/single
7. CAP168

## FLY LEADS



## **MOUNTING**

1. Place the unit against the mounting surface.
2. Mark the areas where the mounting holes are to be drilled. Confirm that no vehicle parts could be damaged by the drilling process.
3. Using a bit size for a no. 304 metal screw, drill two mounting holes, a 0.5" diameter. Wire passage hole(s) must also be drilled. Thoroughly de-burr all hole(s).
4. Pass the wires through the hole(s) in the gasket and through the wire passage hole(s) in the mounting surface. Fix the light head to the mounting surface.

## **INSTALLATION**

Connecting the 0-441-90 directionals to a vehicle battery / power source requires the black wire to be connected to the negative (-ve) terminal, and either the red wire (V1), orange wire (V2) or V1 and V2 together (V3) to be connected to positive (+ve) terminal. Pattern and mode functions need to be set in the same manner as the primary red wire colour. Disconnect the red wire to set the secondary functions as desired. All 0-441-90 directionals are set to double flash pattern as default before leaving the factory.

To set the alternate flash mode:

You can either set V1 to alternate against V2, or utilise the colour setting mode to combine an alternating feature on a single control line. If you want to keep them individually controlled: connect the red wire (or orange wire) to positive (+ve) and the black wire to negative (-ve) terminals on the power source. Hold the yellow wire to the negative (-ve) terminal on the power source. The 0-441-90 will turn from flashing to 'steady burn'.

While holding the yellow wire on the negative (-ve) terminal, hold the brown wire to the positive (+ve) terminal. After 2 seconds, the unit will extinguish for 5 seconds, after which the 0-441-90 will start a quick succession of flashes. Remove the brown wire, the unit should now be flashing alternately to any 0-441-90 it synchronises with.

To set the flash pattern:

With the 0-441-90 powered on, the brown wire should be connected to positive (+ve) terminal from the power source momentarily, to change to the next pattern. Either touch the wire to positive (+ve) briefly, or connect via a momentary switch and press to change pattern.

To set the DIM function:

Connect the blue wire to positive (+ve) at the power source to enable DIM (night) mode. The blue wire needs a constant connection to positive (+ve) to operate in this mode. The 0-441-90 will return to full brightness when the blue wire is disconnected.

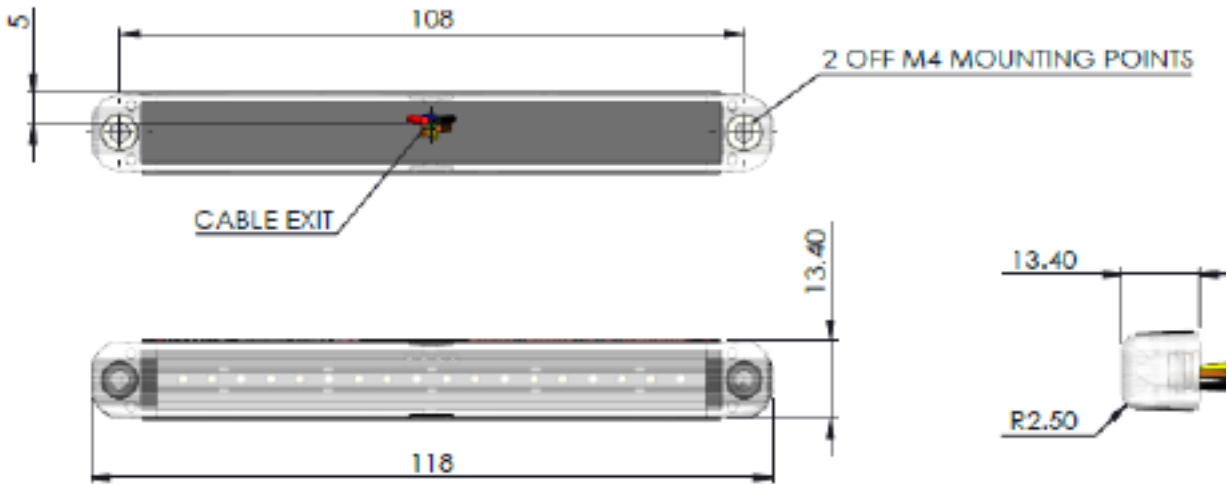
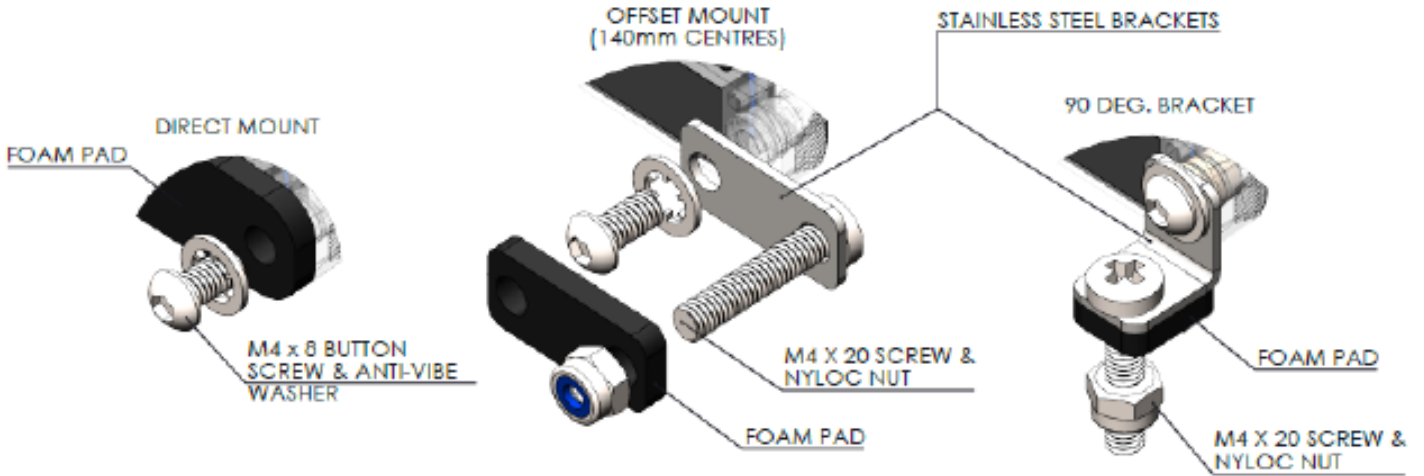
To synchronise 0-441-90:

When the desired flash pattern and mode has been set, connect the yellow wires from each 0-441-90 together, this will ensure all 0-441-90 flash in synchronised format. Note: Do not apply yellow wires to positive (+ve). Do not attempt to sync DURITE products with any other manufacturer's products.

TD-Sync: Please refer to our appendix leaflet found at [www.durite.co.uk](http://www.durite.co.uk) ref 0-441-90.

# INSTALL DIAGRAM

3 MOUNTING OPTIONS AVAILABLE:



## TECHNICAL SPECIFICATIONS

Type	LED Slim Amber Warning Lamp
Voltage	11-32VDC
Wattage	18W
Current Draw	600mA at 12VDC
LED's	6 x 3W LED's
Flash Patterns	7
IP Rating	IP69K
Material Constuction	PC
Operating Temperature	-40°C to +105°C
Weight	38g
Dimensions	Please see drawing below
Certificates	ECE R65 (Class 2), R10 EMC, RoHS, CE, UKCA, CAP 168 ICAO

