

Specification: Lens Clip Assembly for a Traffic Signal



This specification sets forth the minimum requirements for an attachment device that secures an LED or incandescent traffic signal lens in the traffic signal door. Commonly referred to as a lens clip.

- The lens clip assembly shall be constructed of an engineered automotive grade polymer designed for long life with many cycles. It shall continue to operate in cold temperatures without becoming brittle and in hot temperatures without becoming soft.
- The lens clip assembly shall operate satisfactorily in a temperature range from -40°F to +176°F (-40°C to +80°C) and a humidity range from 0% RH to 100% RH.
- The lens clip assembly shall surpass ITE wind loads for traffic signals without damage to the lens clip assembly. The supplier shall make available third party test reports upon request.
- The lens clip assembly shall be designed such that it securely holds round lens diameters of nominal 8" and 12" (200mm and 300mm) as well as undersized LED modules.
- The lens clip assembly shall firmly hold lens/gasket combinations of varying thickness from rotation and vibration.
- The lens clip assembly shall be of universal design such that it fits most makes and models of modern traffic signals with round lenses.
- The lens clip assembly shall consist of upper and lower components that are hinged together.
- The lower component shall be supplied with an integral stainless steel screw. The stainless steel screw shall have a combination head for use with a #2 Philips or #2 Robertson screwdriver. It shall secure the lens clip assembly to the traffic signal door utilizing the existing threaded holes for the lens clips.
- The upper component shall be movable about a hinge with the lower component and shall incorporate a positive latch mechanism to facilitate clamping down on the lens/gasket combination. It shall have a tab, that when pressed, will release the positive latch mechanism allowing for removal of the lens.
- The lens clip assembly shall be easily released with a thumb or finger with or without gloves one.
- Once installed, the lens clip assembly shall allow for removal and installation of the lens from and into the traffic signal door without the use of tools.
- The lens clip assembly shall be available in packaged quantities of 12 (enough for a 3 section traffic signal) for convenience when installed in existing traffic signals in the field during relamping. The components shall also be available in bulk for installation at the traffic signal manufacturers' facility.
- The supplier shall provide a limited, repair or replace, life time warranty on the lens clip assembly.
- The supplier shall maintain an adequate inventory of the lens clip assembly to be able to ship within 15 business days from placement of order.
- Technical support shall be available from the supplier within 2 business days of the time an inquiry is made by a customer.
- The supplier shall allow for credit card or PayPal internet orders from the company's web site or by purchase order.