Vehicle & Pedestrian Signals

16-Inch Poly Pedestrian Signal

What, exactly, is a signal?

A traffic signal is a signaling device that is positioned at road intersections, and other sites that control traffic. The signals are designed to ensure an orderly flow of traffic for vehicles, motorcycles, bicycles, and pedestrians by displaying colored lights in a sequence of phases. The colors signal the user to proceed (green), warn that a signal is changing to red (yellow) or prohibits any traffic from proceeding (red).

Why do agencies use signals?

Traffic signals provide an opportunity for pedestrians or vehicles to safely cross an intersection from different directions. Traffic signals can also alleviate traffic capacity of an intersection or a given route which leads to lowering emissions from vehicles that are waiting in traffic.

How do signals benefit the driving public?

Traffic signals increase the overall safety for all roadway users by reducing traffic collisions and providing efficient intersection operations. Traffic signals also provide a continuous movement of traffic at a defined speed along a given route which contributes to reducing commuting times.

Housing

The main housing of the 16-inch signal is one-piece, manufactured with ultraviolet and heat-stabilized, flame-retardant polycarbonate material. The signal is capable of providing either a top or bottom door opening. The top and bottom of the housing have knockout openings to accommodate standard 1½-inch (38 mm) pipe brackets. This knockout eliminates the need for additional hardware to close openings when using the terminal field assembly. Each opening has a Shurlock boss integrally cast into the housing. The radial angular grooves of this boss, when used with Shurlock fittings, allow positive five-degree increment alignment of the signal head. Alternatively, a field terminal assembly is available that includes an aluminum base and back-plate that can be bolted to either side of the signal housing. Econolite has also designed molded-in mounting bosses that accommodate all major audible pedestrian equipment manufacturers. For added convenience, the Econolite 16-inch polycarbonate housing is completely interchangeable with the Econolite 16-inch aluminum pedestrian signal without the need for new framework or field terminal assemblies.

Housing Door

The structural part of the door is one-piece, manufactured with ultraviolet and heat-stabilized, flame-retardant polycarbonate material. Two integrally-molded hinge lugs and two integrally-cast latch screw slots are on opposite sides of the door. Aluminum doors are also available. The door is attached to the housing by means of two stainless steel hinge pins that allow easy removal without the use of tools. Removable locking pins and permanent knurled pins are also available. Two latch screws with wing nuts on one side of the door allow quick and easy opening and closing of the door without the use of tools. In addition, clips are available that can attach the LED to the signal housing for safe door opening.

Visor Options

The 16-inch signal has an available aluminum visor option. In addition, the Solar Screen visor option is designed to eliminate "sun phantom" and minimize damage to the LED signal module. Stainless-steel hinge pins, door-latching hardware, and screws are used to attach the visor and Solar Screen to the housing door.

Plastic Material and Color

The housing and door are molded in one-color polycarbonate material throughout. For long life and maximum mechanical strength, no reprocessed or scrap polycarbonate material is used. The color of the door, Solar Screen, and the inside of the visor are black.

Dimensions

- Depth
  - 7.00" (housing only)
  - 8.52" (with door)
- Height
  - 18.70" (housing only)
  - 18.75" (with tabs)
- Width
  - 17.88" (housing only)
  - 18.38" (with door)
- Housing and Aluminum Visor Color Options
  - Black (matches Federal Standard 595b-17038)
  - Dark Olive Green (matches Federal Standard 595b-14056)
  - Yellow (matches Federal Standard 595b-13538)

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