

8-Inch Polycarbonate Signal



▷ ▷ All Econolite signals are designed to meet or exceed the Institute of Transportation Engineers (ITE) standards.

About Signals

Traffic and pedestrian signals represent the foundation of safety at any signalized intersection. They also represent the first, and arguably the most important, interaction motorists, bicyclists and pedestrians have with Intelligent Transportation Systems (ITS).

For more than eight decades, Econolite has led the industry in both innovation and breadth of traffic and pedestrian signal solutions for virtually every application, helping transportation agencies and Metropolitan Planning Organizations (MPOs) efficiently and cost-effectively meet evolving traffic management programs.

Polycarbonate provides transportation agencies and MPOs with key benefits such as reduced weight, corrosion resistance and reduced maintenance. Reduced weight is necessary when adding signals to existing mast arms or new longer reach structures. Polycarbonate signals are also less susceptible to corrosion in high humidity applications, as well as pitting from sand in high wind areas. Each traffic signal consists of a number of identical polycarbonate signal sections rigidly fastened together to present a continuous, attractive appearance. Each section has a separate and complete housing. The traffic signal meets or exceeds the latest version of the equipment standard from the Institute of Transportation Engineers' (ITE).

At A Glance

- ▷ Tested to ITE-required wind loading on a single-point attachment
- ▷ Reversible door - left side standard, right side optional
- ▷ Lower maintenance with molded-on color
- ▷ Stainless steel hardware
- ▷ Doors equipped with 2 latches
- ▷ "Fast-on" tab terminal block
- ▷ Provisions for 2 five-position terminal blocks in each housing





Housing

The housing of each section is a one-piece molded ultraviolet and heat-stabilized polycarbonate unit. Two integrally-cast hinge lugs and latch screws are cast on each side of the housing. Built upon a symmetrical concept, each housing is capable of providing either right or left-hand door openings. While the left hinge is standard, the right hinge is special and must be specified. The top and bottom of the housing have openings to accommodate standard 1½-inch pipe brackets. Each signal section is rigidly attached, one above the other, by means of corrosion-resistant bolts and a washer attachment that allow sections to be rotated about a vertical axis. Alternate means for attaching sections together are available. The housing consists of four matching punch-out locations, on the top and bottom of each section, to allow sections to be bolted together with four 1½-inch and 10-32 corrosion-resistant screws.

The top and bottom of the signal housing have an integrally-cast Shurlock boss. The radial angular grooves of the Shurlock boss, when used with Shurlock fittings, provide positive five-degree increment positioning of the entire signal head to eliminate rotation or misalignment of the signal. Each housing has cast bosses for two five-position terminal blocks. Each housing has provisions for easily adding a back-plate. Hinge pins, door latching hardware, visor back-plate, and lens clip screws are high-quality stainless steel.

Wiring

Each receptacle provides two leads with "Fast-on"-type terminals. Wires are color coded per customer specifications.

The lamp receptacle conductors are No. 18 AWG (or larger) 600V appliance wiring material, which conforms to Military Specification MIL-W-16878 D, Type-B with a vinyl nylon jacket rated 115°C.

Basic Specifications

- ▶ **Dimensions (less visor)**
 - ◉ 10 in. H x 10 in. W x 6 5/8 in. D
- ▶ **Weight, typical:**
 - ◉ Poly = 3.1 lb (less visor)
 - ◉ Glass = 3.65 lb (less visor)
- ▶ **Standard Colors:**
 - ◉ Dark Olive Green (matches Federal Standard 595b-14056)
 - ◉ Yellow (matches Federal Standard 595b-13538)
 - ◉ Dull Black (matches Federal Standard 595b-37038)

Terminal Block

Each complete signal face is provided with a terminal block. The terminal block is placed in the bottom section, unless otherwise specified. The terminal block for a standard three-section head is a five-position, ten-terminal, barrier-type strip. To one side of each "Fast-on" terminal strip is the attached AC common, red, yellow, and green signal section leads, leaving the opposite screw clamp terminal for field wires.

