

Incandescent look

# GT1™ LED Arrow Signals

12 inch Red, Yellow, Green

## Excellent Appearance & Visibility

- Robust LED system design enables high luminous intensity over long product life
- Efficient optical design allows omnidirectional arrow placement with maximum light output
- New expanded view allows for fixed and span-wire applications

## Outstanding Reliability & Robust Operation

- Integrated failed-state impedance protection detects the loss of LED load
- O-ring gasket and over-molded electrical connector provide reliable moisture & dust protection
- Low power consumption translates into significant energy savings
- UV-treated polycarbonate front lens resists scratches and helps maintain light intensity

## Meets Rigorous Certification & Testing Standards

- EPA 2005 compliant
- Using MILStd 810 for environmental robustness, passed reliability and qualification testing including high temperature, high humidity cycling
- Meets Caltrans standards
- Designed to the draft Vehicle Traffic Control Signal Heads - Light Emitting Diode (LED) Vehicle Arrow Traffic Signal Supplement version dated April 3, 2006

\*Luminous intensity measured at  $T_a = 25^\circ\text{C}$  for yellow



ITE performance\*  
Omnidirectional  
Expanded view



imagination at work



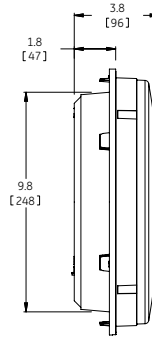
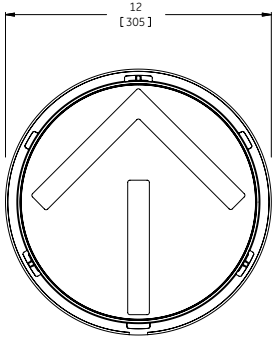
The Greatest Signals Stand the Test of Time.™

# GT1™ LED Arrow Signals

- 12 inch module

## Mechanical Outline

Dimensions in inches. (mm) indicates metric equivalent



## Design Compliance

| Test type                    | Compliance  |
|------------------------------|---|
| Luminous Intensity           | A: ITE VTCOSH-LED Vehicle Arrow Traffic Signal Supplement, draft version April 3, 2006<br>B: Caltrans |
| Chromaticity                 | ITE VTCOSH-LED Vehicle Arrow Traffic Signal Supplement, draft version April 3, 2006                   |
| Moisture Resistance          | NEMA STD 250 Type 4 – 1991<br>Blown Wind Rain MIL-STD-810F method 506.4                               |
| Mechanical Vibration         | MIL-STD-883 Method 2007   |
| Electronic Noise             | FCC Title 47 Sub. B Sec.15 <sup>2</sup>   |
| Transient Voltage Protection | ITE VTCOSH-LED Vehicle Arrow Traffic Signal Supplement, draft version April 3, 2006                   |
| Controller Compatibility     | Sec. 2.1.6, NEMA TS-2-2003  |
| Wiring                       | NFPA 70 National Electric Code  |

## Operating Specifications

| Parameter                       | Rating                                       |
|---------------------------------|--|
| Operating Temperature Range*    | -40 to +74°C (-40 to +165°F)                 |
| Operating Voltage Range         | 80 to 135 V (60Hz AC)                        |
| Power Factor (PF)               | > 90 %                                       |
| Total Harmonic Distortion (THD) | < 20 %                                       |
| Voltage Turn-Off (VTO)          | 35 V   |
| Turn-On / Turn-Off Time         | < 75msec                                     |
| Lens & Shell Material           | UV Stabilized Polycarbonate meets (SAE) J576 |
| Wiring                          | 16 AWG, Color Coded with Strain Relief       |

\* Performed in compliance with ITE test method described in the technical notes  
<sup>1</sup> Measured at T<sub>a</sub> = 25°C for Yellow  
<sup>2</sup> Class A

Distributed by:

## Product Information

| Model Number    | Size (in) | AC Voltage  | Power (W) | Wavelength (nm) | Maintained Intensity (Cd) | Luminous Intensity Spec |
|-----------------|-----------|-------------|-----------|-----------------|---------------------------|-------------------------|
|                 |           | Nominal     | Nominal   | Dominant        | Minimum <sup>1</sup>      |                         |
| ● DR6-RTAAN-17A | 12        | 120V – 60Hz | 5         | 626             | 58                        | A & B                   |
| ● DR6-YTAAN-17A | 12        | 120V – 60Hz | 9         | 589             | 146                       | A <sup>1</sup> & B      |
| ● DR6-GTAAN-17A | 12        | 120V – 60Hz | 5         | 500             | 176                       | A & B                   |
| ● DR6-GCAAN-17A | 12        | 120V – 60Hz | 5         | 500             | 176                       | A & B                   |

Standard product equipped with universal connectors (spade-quick disconnect).

PRELIMINARY: GE Lumination reserves the right to effect changes to offer better product or accommodate changes in the draft specifications.



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