

Dialight



433 SERIES LED RAIL CROSSING SIGNAL MODULE



Shown with optional side lights

FEATURES / BENEFITS

- ▲ Proven high-flux LED traffic signal technology
- ▲ AC / DC operation from 9 to 16 volts full output (operation down to 5 volts)
- ▲ Optional side light indicators reflect main beam signal to ensure safety
- ▲ Designed for retrofit into existing lamp housings with no beam alignment necessary
- ▲ Ring terminations easily attach to AREMA posts
- ▲ Red tinted, UV-stabilized, and hard-coated lens for extended life
- ▲ Better visibility and faster response time than incandescent
- ▲ Flicker resistant
- ▲ Reduced power consumption
- ▲ Years of maintenance-free operation

Compliant to: AREMA - Meets or exceeds all applicable AREMA design criteria*
Transport Canada - Meets or exceeds all applicable TC specifications*

APPLICATION

The state-of-the-art 433 series LED rail crossing signal was developed by Dialight to lower power requirements and maintenance costs; while increasing safety, life and reliability in rail crossing applications.

These lamps were designed utilizing Dialight's proven high-flux LED traffic signal technology to provide superior light performance for use on both existing and new crossing light applications. Safer fast on/off response time and brilliant monochromatic color makes these LED lamps more noticeable than incandescent lamps. The modular lamps install easily without special tools and operate in both AC and DC applications.

This light is unique from other LED crossing Lights in several ways: (1) Diffused lens and uniform appearance are similar to incandescent, (2) the lamp maintains the specified light output down to 9 volts, but operates down as low as 5 volts, and (3) safety is increased by side lights that monitor the main light beam by reflecting light via patented light pipe technology to ensure train engineers that the light aspect facing the street is actually flashing, providing two less failure points compared to any other competitor product!

OPERATING CONDITIONS

Operating Temperature-40°C to +70°C
 Operating Voltage5 to 16 volts AC/DC
 DC operating current @ 10 Volts1 Amp DC
 AC operating current @ 10 Volts1 Amp RMS
 Power Factor> 98%
 Chromaticity $y \geq 0.330$ and $y \leq 0.998-x$



* EMI compliance to FCC specifications only



Dialight Corporation

1501 Route 34 South • Farmingdale, NJ 07727 USA

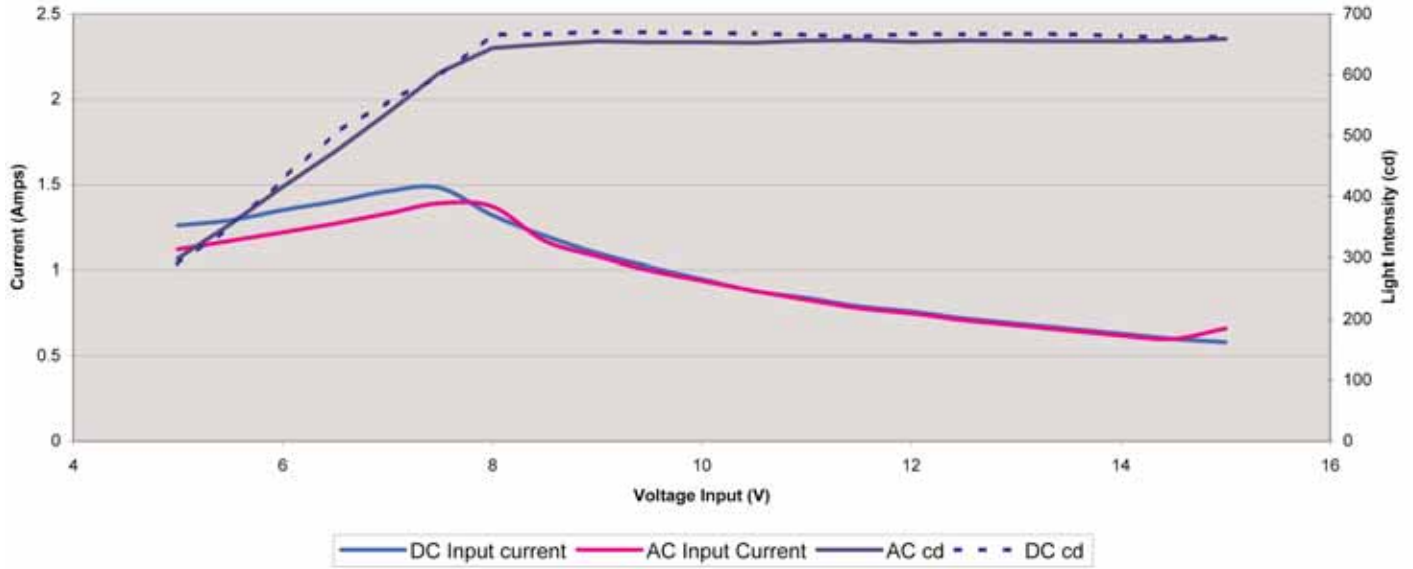
Tel: (1) 732-919-3119 • Fax: (1) 732-751-5778 • www.dialight.com



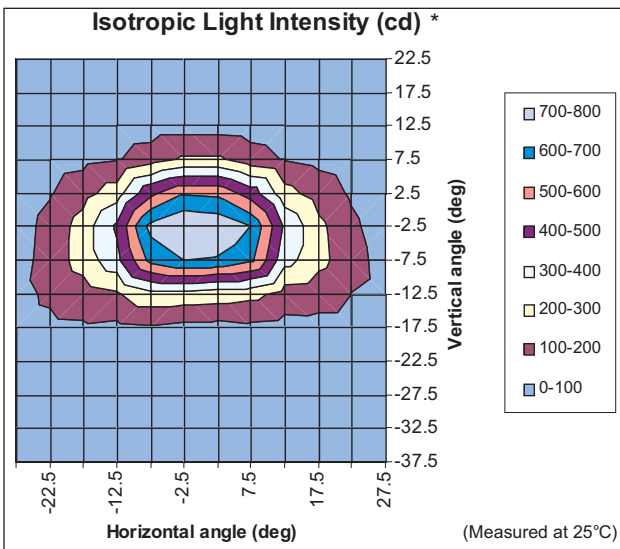
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ELECTRICAL AND PHOTOMETRIC SPECIFICATIONS*

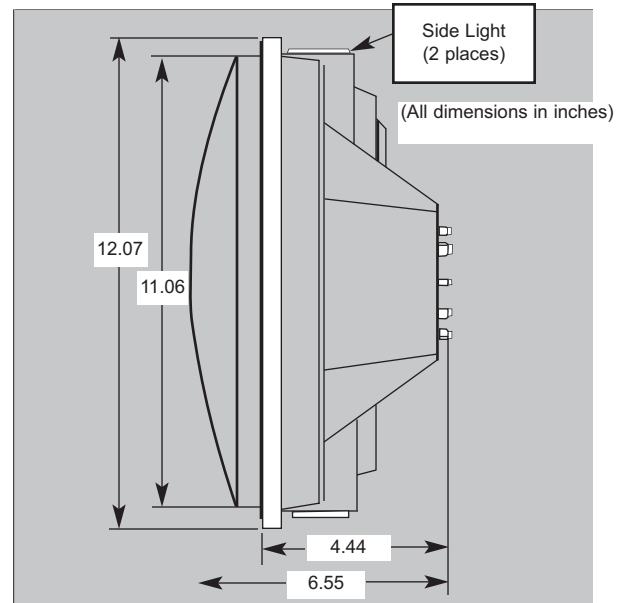
6 LED 12" Crossing Light V vs I and V vs Light Intensity Curves



* Representative of 433-1R11-R111-1R00 only



MECHANICAL DIMENSIONS



ORDERING INFORMATION

| Part Number | Description |
|--------------------|--|
| 433-1R11-R111-1R00 | With Sidelight, Red, 12" diameter, 8-14 Volts AC/DC, 24" leads, Ring lug, flat gasket (front), AREMA compliant |
| 433-1R12-R111-1R00 | Without Sidelight Red, 12" diameter, 8-14 Volts AC/DC, 24" leads, Ring lug, flat gasket (front), AREMA compliant |



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