



**EXPLOSION-PROOF & HAZARDOUS LOCATION**

**TOMAR** Electronics, Inc.

# TOMAR

## TOMAR Hazardous Location Signaling

TOMAR Hazardous Location signaling devices are constructed in the USA of the finest material. They are engineered and manufactured to withstand many years service in the harshest environments. You can rely on Tomar for the highest quality signaling products available.



### 490S-T Microstrobe

- Class 1, Division 2 Groups A, B, C & D
- NEMA 4X
- UL listed
- 10,000 hour strobe tube
- Ten year power supply warranty
- Lexan® Lens



### 4375 Strobe

- Class 1, Division 2 Groups A, B, C & D
- NEMA 4X
- Tempered glass lens
- UL and CSA
- High output 12 Joule strobe tube
- Multi-voltage AC and DC versions



### 4000X Series

- Class 1, Division 2 Groups A, B, C & D
- NEMA 4X, Marine Rated
- CSA Enclosure Type 4X, IP66
- 10-year warranty on power supply
- 10,000 hour strobe tube
- Order just the mounting you need - Pendant, Flange or Wall Mount

### 2000XL Series

- Class 1, Division 2 Groups A, B, C & D
- NEMA 4X, Marine Rated
- CSA Enclosure Type 4X, IP66
- 5-year warranty
- 5 LED Colors
- Order just the mounting you need - Pendant, Flange or Wall Mount



### Explosion-Proof Pull Station

- Class 1, Division 1 & 2
- NEMA 4X
- UL Listed & FM Approved
- 9 Available Colors
- Custom lettering in any language



Lens Colors (490S-T, 3000, 4000X and 7000 series strobes only)



## 3000 Series Strobe

- Class 1, Division 1 Groups C & D
- NEMA 4X
- UL Listed & Marine Rated
- Six Lens Colors
- 10,000 hour strobe tub
- Compact size and weight
- Order just the mounting you need
  - Pendant, Flange (Ceiling) or Wall Mount



## Mounting Options

3000 & 7000 series strobes and LED models  
 Wall Mount | Pendant Mount | Flange Mount



4000X & 2000XL series strobes and LED models  
 Wall Mount | Pendant Mount | Flange Mount



## 7000 Series Strobe

- Class 1, Division 1 Groups C & D
- NEMA 4X
- UL Listed & Marine Rated
- 2000 ECP High Intensity Flash
- 24,000 hour strobe tube
- Built-in Synchronizing Circuit
- Order just the mounting you need
  - Pendant, Flange (Ceiling) or Wall Mount



## 3000 & 7000 Series LED

- High Power LED cluster
- Thermal Management System
- 100,000 hour lamp life
- Operating temperature -55 C to 85 C
- 5 year warranty
- DIP selectable Single-flash, Double flash or Steady on



## Effective Candlepower (ECP) vs Peak Candlepower

The NBS (National Bureau of Standards) and the IES (Illumination Engineering Society) use candela Effective or Effective Candlepower (ECP) in specifying intensities of a flashing light source. This rating is the most meaningful when it becomes necessary to predict the visible range of flashing warning lights versus steady burning light sources.

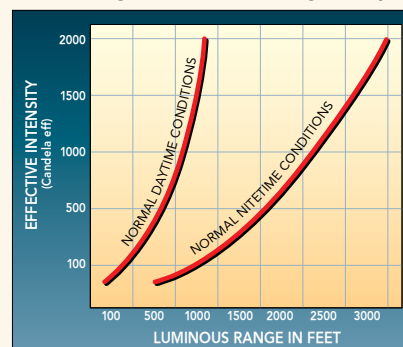
Peak Candela or Peak Candlepower is not a measurement of visible light, and therefore indicates nothing about how bright the light appears to the human eye.

## 1002WEP Power Alarm

- Class 1, Division 1 & 2
- NEMA 4X
- UL Listed
- 9 Selectable Tones
- Remote activation with priority
- 112 dB @ 10 ft
- Operating temp -55 C to 85 C



## Strobe Light Luminous Range Graph



NOTE: THESE CURVES ARE BASED ON NORMAL VISIBILITY



For over 30 years, TOMAR Electronics, located in Gilbert, Arizona, has engineered, designed, and manufactured the highest quality, most reliable and extremely efficient audible and visual warning signals. Tomar Electronics is dedicated to perfecting strobe and LED technology and continues to define the standard for warning light performance into the twenty-first century.

From assemblers to administration, TOMAR is continually improving manufacturing efficiencies while preserving the consistent quality of our work. We take great pride in our efforts toward providing innovative products that save lives.

#### **Research and Development**

*The cornerstone of innovation.*

The performance and reliability of TOMAR products evolves from over a quarter century of intensive research and development of high efficiency electronic circuit designs and innovative optics.

TOMAR's staff of highly specialized engineers employ state-of-the-art electronic design and testing equipment to create the most advanced warning signals available. TOMAR's testing and research equipment includes:

- An advanced computerized circuit simulator that defines critical tolerance parameters and troubleshoots for potential design weaknesses.
- Surface Mount Technology Computer Automated (SMT) Component Pick and Place Assembly
- A 100 foot automated light measurement tunnel which uses photometers calibrated to display measurements in candelas effective in accordance with FAA, and IES standards. High speed photodiodes are used to measure and display light pulse wave shapes to insure accuracy in light intensity output specifications.
- A fully equipped and certified test lab, capable of making all tests and measurements.
- A fast scanning spectroradiometer for color measurements.

#### **Manufacturing and Quality Control** *Striving to produce high quality products.*

Rigorous quality control standards and detailed inspections are implemented at various stages in the production process. Fixture "burn-in" provides for an unprecedented 100% testing of all TOMAR products to ensure accurate and trouble free performance for the life of the strobe. Statistical Process Control is used to monitor production quality with detailed precision. TOMAR's warranties are among the longest in the industry, made possible by the dedication to quality in both the design and manufacturing processes. A computerized system integrating order entry, inventory, and production control helps to facilitate rapid order fulfillment.

#### **TOMAR Online**

Visit our web site for the latest product up-dates, documentation and many other helpful information at: [www.tomar.com](http://www.tomar.com)