



The new standard in obstruction lights.

TWR Lighting, Inc.
Enlightened Technology™

L1000-xxx HIGH INTENSITY WHITE FLASHING STROBE OBSTRUCTION LIGHT

Key features

- High reliability with long lamp life, low cost of ownership and low power consumption
- Simple internal design with only two main circuit boards for easy maintenance
- "Safe plug" lamp holder for easy lamp replacement
- Uses TWR/Orga special technology for the ignition of xenon lamps control for long lamp life and very low UV and ozone generation
- Internal photocells for automatic day/twilight/night intensity control
- TWR/Orga Strobeline™ cable wiring system configuration combines power and control wires into a single protected cable
- Easy to install with integral mounting frame and lifting eye
- Level indicators provided to help with correct installation

Standards

- Certified to Federal Aviation Administration AC 150 5345/43E Type L-856 & L-857 obstacle light
- Design to ICAO Annex 14 Volume 1, third edition, July 1999 Chapter 6, High Intensity, Type A & B obstacle light

Optical characteristics

- Effective intensity for different type of high intensity light (day/twilight/night mode):
 - L1000-856 FAA L-856 270.000 / 20.000 / 2.000 candela
 - L1000-857 FAA L-857 140.000 / 20.000 / 2.000 candela
 - L1000-63A ICAO Type A 200.000 / 20.000 / 2.000 candela
 - L1000-63B ICAO Type B 100.000 / 20.000 / 2.000 candela
- 40 or 60 flashes per minute (factory set as per table)
- Horizontal beam pattern 120°, use 3 lights per level for 360° marking
- High accuracy vertical beam profile

Electrical characteristics

- 120 - 240 V_{ac} (±10%) 50-60 Hz or 165 - 270 V_{dc} (±10%) supply operating voltage without product modifications
- Power consumption <150W average continuous over typical 24 hour period. (see table)
- Safety switch to disconnect power and discharge capacitors when unit opened
- Internal and external high voltage warning LEDs
- Light "fail" remote monitoring output
- Failure indication LED
- Supplied with an Orga Strobeline™ combined power and data connection cable
- EMC type cable gland
- Two stage over voltage protection

Physical characteristics

- Stainless steel 316 body
- Integral adjustable tilt angle mounting bracket
- IP66 degree of ingress protection (design)
- Operating temperature range -55°C to +55°C
- Size: 460 x 570 x 303 mm (with mounting frame 460 x 650 x 303 mm)
- Mounting holes at 415 x 620 mm
- Weight (excluding packaging) 40 kg
- Shipping dimensions: 800 x 600 x 500 mm / 45 kg

System Design, Control and Monitoring

- Combine L1000 high intensity lights with L303-864 or L350-xxx and L303-865 medium intensity lights for optimum system design.
- Connect L1000 high intensity, L303 and L350 medium intensity lights to a single CIP200 control unit.
- Local and remote monitoring facilities provided by CIP200.
- No-Wire multiple system flash character synchronization option with the GPS020.
- Catenary crossing system configuration options available.





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Type Numbering		Additional Information						Comment
L1000	Extension	Flashes Per Minute			Power Consumption			
		Day	Twilight	Night	Day	Twilight	Night	
L1000-856		40	40	40	220	35	20	Standard Configuration
L1000-856	d	40	40	off	220	35	5	Day Time only Operation
L1000-856	D	40	40	off	220	35	5	FAA Dual Lighting Operation
L1000-857		60	60	60	230	50	30	Standard Configuration
L1000-857	d	60	60	off	230	50	5	Day Time only Operation
L1000-857	D	60	60	off	230	50	5	FAA Dual Lighting Operation
L1000-63A		40	40	40	220	35	20	Standard Configuration
L1000-63A	d	40	40	off	220	35	5	Day Time only Operation
L1000-63A	D	40	40	off	220	35	5	FAA Dual Lighting Operation
L1000-63B		60	60	60	230	50	30	Standard Configuration
L1000-63B	d	60	60	off	230	50	5	Day Time only Operation
L1000-63B	D	60	60	off	230	50	5	FAA Dual Lighting Operation

