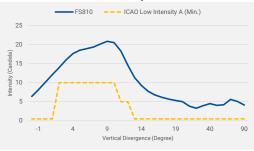
FS810 Series Solar Powered Low Intensity Obstruction Light

•ICAO LIOL-A • Red steady > 10cd



COMPLIANCE

• Obstacle Light Low Intensity Type A, ICAO Annex 14 Volume I July 2016



APPLICATIONS

- Telecommunication Tower
- TV/Radio Tower
- Transmission Tower
- High-rise building
- Industrial Chimney & Cooling Tower
- Tower Crane
- Bridge
- Wind turbine
- Airfield & helipad
- Storage tank & Water tower
- Oil & Gas offshore platform

F810 is an ICAO certified solar powered low intensity obstruction light. FS810 steady-burning conforms to ICAO Obstacle Lighting low intensity type A.

FS810 is a self-contained solar powered low intensity obstruction light. Integrated four-side solar panels and MPPT (Maximized Power Point Tracking) microcontroller enable this model to maximize solar power output.

Incorporated SBM (Smart Battery Management) program reduces energy consumption. By detecting ambient solar irradiance, FS810 can self-adjust LED outputs for extending autonomy. It also protects the VRLA battery pack from over-charging and over-discharging.

FS810's LED module consists of 16 units of ultra-bright OSRAM LEDs. REDDOT novel convex lens optimizes photometric performance. In addition to regular visible red color, FS810 NVG compatible version with IR LEDs or Red/IR dual LEDs is a night vision solution for pilots being able to view obstruction lights using Night Vision Goggles.

FS810 comes with 20W-PV and 16AH-battery. Once fully charged, the autonomy can reach up to 20 days (suitable for PSH \ge 4).

FEATURES

- 16 pcs of ultra-bright OSRAM LEDs, reliable light source ensures long lifespan
- Four-side solar panels and integrated MPPT maximize sunlight collection
- High-grade VRLA battery provides long lifetime
- Integrated SBM (Smart Battery Management) for saving energy to extend autonomy
- Novel convex lens provides excellent light distribution
- Autonomy up to 20 days once fully charged during insufficient sunlight days
- Protective vent for expelling battery gas and reducing condensation
- Automatically off if continue working 18 hours
- IP67 ON-OFF switch for protecting the battery from overdischarging
- GE polycarbonate lenses, UV-stabilized
- Aluminum base with powder painted, corrosion-resistant
- IP67 waterproof protection, silicon gasket enhanced
- Excellent shock and vibration resistant
- A handle on the light shoulder makes carrying and lifting easier for deployment
- Flash rate adjustable, steady/20-60FPM
- NVG compatible with IR LEDs or Red/IR dual LEDs
- GPS available for synchronizing flash



SPECIFICATIONS

Item		FS810 Specifications
LIGHT OUTPUT	Effective Intensity	Steady burning >10cd
	Vertical beam	>10°
	Horizontal Spread	360°
	Light Source	OSRAM LEDs
	LED Color	Red (for obstruction). White, yellow, green and blue are available for other applications
	LED Lifespan	100,000 Hours
OPERATION	Flash Pattern	Steady / 20-60FPM adjustable
	Autonomy (Note1)	20 days
	Suitable areas (Note2)	PSH≥4
	ON&OFF Level	70/100Lux
POWER SUPPLY	Solar Panel Type	Solar Module, Mono-Crystalline Silicon
	Solar Panel Efficiency	15%
	Solar Panel Power	4*5W
	Battery type	VRLA battery
	Battery Capacity	12V/16 Ah
	Battery Replaceability	Yes, replaceable
MECHANICAL STRUCTURE	Lens	Polycarbonate, UV Stabilized
	Body	Aviation yellow powder-coated extruding aluminum
	Mounting	Four Φ16*25 slot holes on 200mm bottom PCD
	Net Weight	13KG
	Dimension(W*H)	235mm * 400mm
	Protection	IP67
	Operation Temperature	-40°C~+55°C
	Operation Humidity	0-95% RH non-condensing
	Wind resistance	Max.240kph
	Optional	 Flashing •GPS •Zigbee Wireless Monitoring •NVG compatible with IR LEDs
OTHERS	Warranty	•5 years for light •2 years for battery •10 years for PV

Notes: 1) The days of autnomy indicated in the specs table is once fully charges, how many days the solar light can run during cloudy/rainy days (12 working hours/day), without optional functions. 2) PSH is the abbreviation of Peak Sun Hours which reflects solar radiation. 1 Peak Sun Hour = 1000 W/m2 of sunlight. The PSH given in the table is a yearly average value. The more PSH value is. The more solar energy potential is. As PSH value varies in different month. please consult REDDOT to select the safest solar obstruction light.

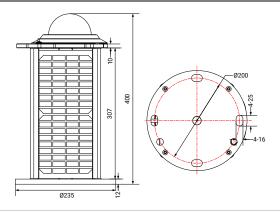
ORDERING CODE

FS810 [Blank] (Steady) [Blank] (Only red LEDs) [Blank] (without GPS) [Blank] (with	e Wireless Monitoring (Note3)
F (Flashing) NVG (IR LEDs) GPS (with GPS) ZB (with Zigl	(without Zigbee module)
RED-NVG (dual Red/IR LEDs) ZB (with Zigl	th Zigbee module)

Notes: 1) With flash rate adjust switch, users can adjust flash rate among steady, 20FPM, 30FPM, 40FPM, 60FPM 2) GPS is applicable for flash unit

GTRW wireless monitoring box is needed to receive signals from solar lights with Zigbee modules.
 E.g.: FS810-NVG = Solar powered low intensity obstruction light, steady>10cd, with 4*5 PVs & 12V16Ah battery, with IR LEDs, NVG compatible

DIMENSIONS







AMP30150S bracket (U-bolt holders) for dia.30-150mm angular/tubular structures

