Obstruction Light



Obstruction lighting is a means of ensuring flight safety by marking aviation obstacles with electrically operated beacons. High buildings, factory chimneys, towers, masts etc. above a certain height in the vicinity of airports and airfields must be equipped with obstruction lights.

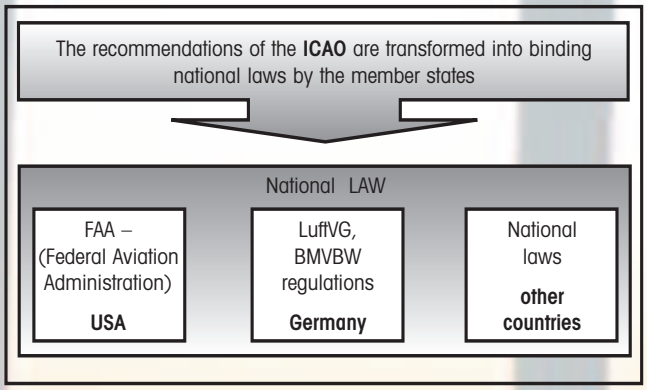
LEGAL SPECIFICATIONS

The method of marking obstacles to air traffic is laid down by diverse laws, regulations and recommendations.

The International Civil Aviation Organisation (ICAO) is a special organisation within the United Nations created to establish and develop universal regulations for safety, order and economic sense in international air traffic. The recommendations of the ICAO are not directly binding in the member states, but must be transformed by them into the appropriate national legal regulations.

In Germany the Ministry for Transport and Construction (BMVBW) issues the regulations regarding obstruction lighting on buildings.

The ICAO regulations regarding the methods of marking and lighting aviation obstacles can be found in ICAO Annex 14, Volume I, Chapter 6.



AREAS OF USE

Germany	Marking of aviation obstacles by night at any height providing the highest point of the obstacle can be marked.
ICAO	Marking of aviation obstacles up to 45 m by night.



LEGAL REQUIREMENTS FOR OBSTRUCTION LIGHTING IN GERMANY

- Light output at least 10 cd in a horizontal beam angle of -2° to 10°
- Light colour: aviation red
- The photometric requirements must be met to a full 360° around the obstruction light (omnidirectional obstruction light).

280 LED Obstruction Light





- **LED obstruction light, certified in accordance with German BMVBW regulations**
- **For use as "Low-intensity Obstruction Light, Type A" in accordance with ICAO Annex 14, Vol. 1, Chapter 6**
- **Extremely high light intensity of more than 15 cd**
- **High impact resistance to 20 Joules**
- **DC multi-voltage version**

TECHNICAL SPECIFICATIONS:

Dimensions (Diameter x Height):	142 mm x 220 mm
Housing:	PC/ABS-Blend
Dome:	PC, transparent, clear
Fixing:	Base, bracket, tube mounting
Connection:	Screwable conn. with wire protection max. 2.5 mm² Contact protection according to VDE
Cable entry:	Cable diameter 5-7 mm
Life duration:	up to 50,000 hrs
Duty cycle:	100 %

ORDER SPECIFICATIONS:

Voltage:	24 V ⎓ (12-50 V)	230 V ~
Current consumption:	12 V: 500 mA 50 V: 100 mA	50 mA
aviation red	**280 410 55**	**280 410 68**

ACCESSORIES:

Plastic bracket for wall mounting	**975 883 06**
Flange for tube mounting max. 25.3 mm	**975 883 02**
Wire guard	**975 883 08**

TECHNICAL DIAGRAMS:

see page 239



Plastic bracket, flange for tube mounting and wire guard (accessories)



Extremely high light output using unique LED technology.

