16813 - Datasheet Quantec Beacon: FAA L-810F

The Quantec tower light fully complies to the L-810F requirements of the FAA.

The beacon completely integrates the control inside a compact housing. After connection, each obstacle light is immediately ready for use. Because it is using GNSS signals to synchronize the timings of the flashes it is not necessary to connect them with other Quantec beacons.

For illustration only

Key features

- UTC synchronized flashing using GNSS with global coverage
  - GPS, QZSS, GLONASS, Galileo, Beidou
- Red LEDs
- Infrared LEDs
- Integrated brightness sensors
- Integrated logbook records on/off timestamps, events and statistics for more than 20 years.
- Built in over-voltage protection: Class III according to IEC61643-11
- Maintenance free
- Corrosion resistant materials for all surfaces
- UV and ozone resistant optical units and seals

Performance characteristics

- Effective Intensity:
  - red: 32,5 cd
  - ir: > 4 mW/sr
- Flash rate: 30 FPM
- Horizontal angle of radiation: 360°
- Vertical beam spread: >10°

Supported light profiles

- L-810F (AC 150/5345-43J and EB 67D)

Technical specifications

General information

Item number	16813
Illuminant	4 red LEDs 4 infrared LEDs
Compliance	• FAA L-810F per AC 150/5345-43J and EB 67D • CE • RoHs
Requirements	• Needs a Quantec L-864 to operate

Electrical characteristics

Rated voltage		24 V DC ± 25%
Peak current		225 mA
Overvoltage protection		Class III according to IEC 61643-11
Relay contact rating	Max. switching voltage	30 V DC
	Rated current	100 mA

Power consumption

Operating mode	Peak Power [W]	Peak VA [VA]
Night	5.38	5.39

Physical characteristics

Dimensions with mounting plate (H×W×D)	94.5 mm × 92 mm × 92 mm
Weight (Beacon only)	Approx. 1.2 kg
IP rating	IP 68
Material	Anodized aluminium, seawater resistant
Mounting	NPT (National Pipe Thread)

Quantec Signals GmbH
Rieselwiese 1
D-38690 Goslar

Tel: +49-5324-780966-0
Fax: +49-5324-780966-119
www.quantec-signals.com

Braunschweig Commercial Registry HRB 205718
Director: Lars Hohaus

Environmental specification

Operating temperature	-40 °C to +55 °C (-40 °F to 131 °F)
Storage temperature	-55 °C to +70 °C (-67 °F to 158 °F)
Relative humidity	0 to 100 %
Operating altitude	0 to 2500 m (0 to 8202 ft) AMSL

Operation mode switching

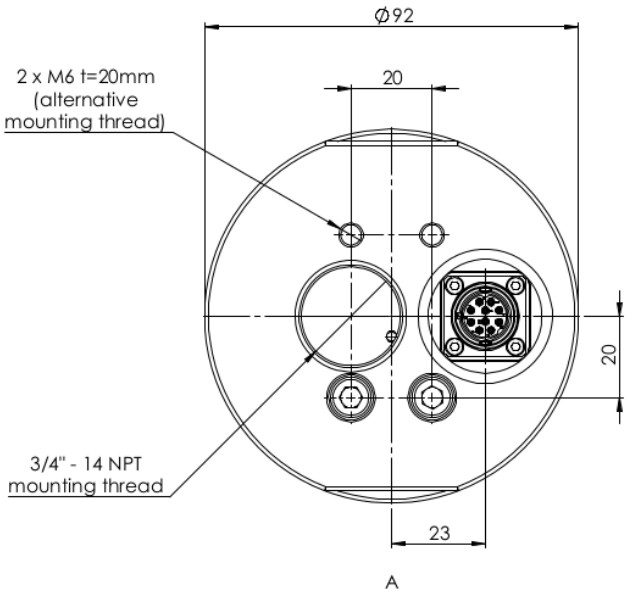
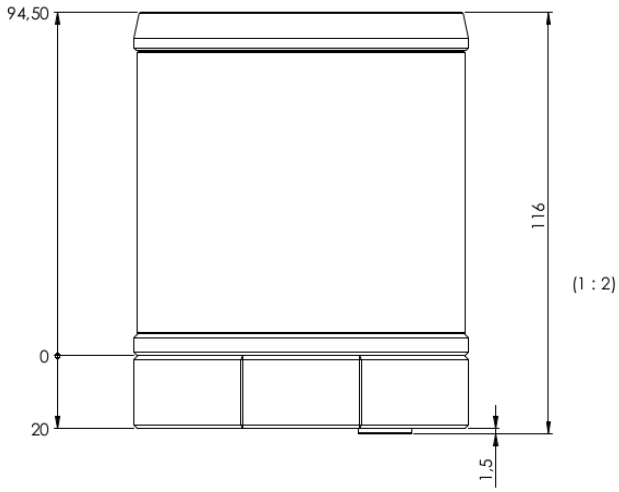
- Operation mode controlled L-864 to operate

Beacon cable

Description

Cable length	15 m
Cable end	open, 10 x cable end sleeves

Pinout

Cable Core	Connector Pin	Function
red	1	Positive supply voltage
pink	2	Negtive RS485 slave
grey	3	Positive RS485 slave
blue	4	Negtive RS485 master
green	5	Positive RS485 master
yellow	6	Indicates error (Open on error)
brown	7	Indicates warning (Open on warning)
white	8	Negative supply voltage
purple	9	Test-mode. GND (or open) = Inactive, +24 V = Test mode
black	10	Relay common
	Housing	Earth grounding

Drawing