

The Quantec Beacon "LED20kmain4x" obstacle light completely integrates the control inside a compact housing.



Key features

- Type of obstacle light can be changed by configuration
- Mesh radio network
- Heater (CCV)
- UTC synchronized flashing using GNSS with global coverage
 - GPS / QZSS, GLONAS, Galileo, Beidou
- Configurable flash rate
- Astronomical clock
- Integrated brightness sensor
- Integrated logbook (capacity for ~20 years)
- 2 RS485 communication interfaces
- Visibility meter support
- ModBus digital I/O support
- Alarm contacts
- Digital input to activate test-mode
- Built-in overvoltage protection: Class III according to IEC61643-11
- Connection terminal and cable gland for individual installation (optional)
- 24 V DC supply
- Maintenance free
- Corrosion resistant materials for all surfaces
- Highly UV and ozone resistant optical units and seals

Performance characteristics

- Effective Intensity:
 - white: adaptable, up to 100 000 cd
 - red: adaptable, up to 2 000 cd
 - ir: adaptable, up to 500 mW/sr
- Flash rate: adaptable from 20 to 60 FPM
- Horizontal angle of radiation: 360°
- Vertical beam spread: >3°

Supported light profiles

- ICAO High-Intensity, Type B
- ICAO Medium-Intensity, Type A B and C
- Trafi IR

Technical specifications

General			
Item number	15057		
Illuminant	96 white, 40 red, 8 infrared LEDs		
Conformity	CE, RoHS,		
Electrical characteristics			
Supply voltage	18 – 30 V DC, nominal voltage 24 V DC		
Power consumption and peak current (typical)	Operating mode	P _{avg} [W]	I _{peak} [A]
	High Intensity, Type B (100.000 cd white)	105	4,5
	Heater	200	8,4
Relay contact rating	Max. switching voltage	30 V AC/DC	
	Rated current	100 mA	
Mesh radio (optional)			
Frequency	2.4 GHz ISM band		
Transmission range	approx. 1.5 km		

Technical specifications (continued)

Physical characteristics	
Dimensions (H × Ø)	647,2 mm x 252 mm
Weight	approx. 17,5 kg
IP rating	IP 68
Operating temperature	-40 °C to +55 °C (-40 to 131 °F)
Relative humidity	0 to 100% r.H.
Material	Anodized aluminum, seawater resistant
Mounting	Z shape holders

24 V Beacon terminal pinout

Signal	Pin	Function
24 V U+	1	Supply voltage
GND	2	
RS485 Port 1 A	3	PC terminal interface or slave communication port
RS485 Port 1 B	4	
SVInfo	5	GND (or open): Inactive, +24 V: Test mode, 9.6 kbit/s: Data mode
COM	6	
K1 / Warning NO	7	Relay 1 contact open when warning or day mode active
K2 / Fail NO	8	Relay 2 contact open when errors are present
RS485 Port 2 A	9	Interface to the visibility sensor, ModBus module or master communication port
RS485 Port 2 B	10	
Shield	11	Earth grounding
PE	GN / YE	Protective earth

230 V Heater terminal pinout

Signal	Pin	Function
L	1	Supply voltage
N	2	
PE	PE	Protective earth

Drawings

