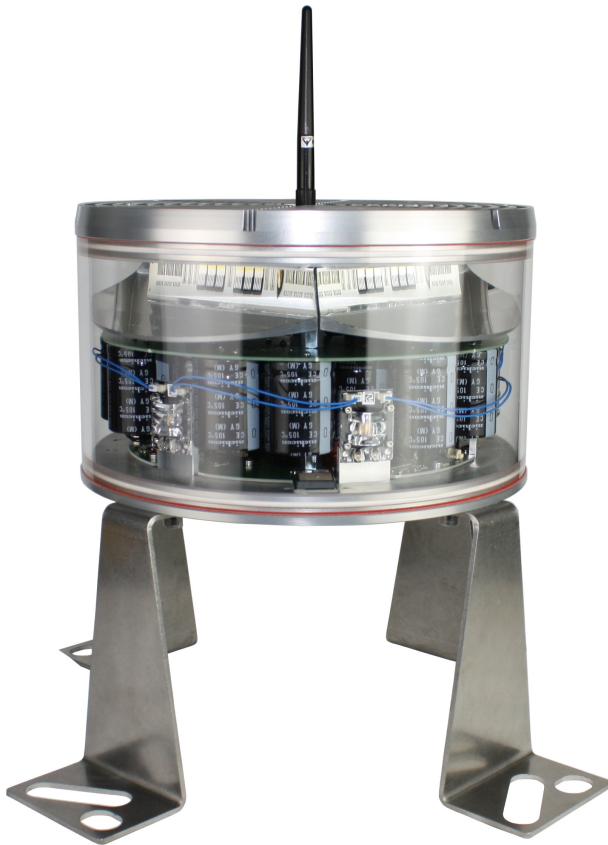


The Quantec Beacon "LED20kmain4x" obstacle light completely integrates the control inside a compact housing.



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 over-voltage protection: Class III according to IEC61643-11
- Connection options
 - Single M16 connector for easy and fast installation (standard)
 - Connection terminal and cable gland for individual installation (optional)
- 24 V DC and 230 V AC supply options
- Maintenance free
- Corrosion resistant materials for all surfaces
- Highly UV and ozone resistant optical units and seals

Technical specifications

General			
Item number	14953		
Illuminant	48 white LEDs, 30 red 16 infrared LEDs		
Conformity	CE, RoHS, Trafti		
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] *
	50.000 cd white + Trafti IR	24 W	2,5 A
	Heater	100 W	4,2 A
* Values are subject to change			
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)	273 mm × 252 mm
Weight	approx. 6,6 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

Performance characteristics

- • Effective Intensity:
 - white: adaptable, up to 50 000 cd
 - infrared: adaptable up to 500 mW/sr
- Flash rate: 20 FPM
- Horizontal angle of radiation: 360°
- Vertical beam spread: >3°

Supported light profiles

- • ICAO Medium-Intensity, Type A, B and C
- Trafi

M16 Connector Pinout

Signal	Pin	Function
24 V U+	1	Supply voltage
RS485 Port 1 Data-	2	PC terminal interface or slave communication port
RS485 Port 1 Data+	3	
RS485 Port 2 Data-	4	Interface to the visibility sensor, ModBus or master communication port
RS485 Port 2 Data+	5	
K2 /Fail	6	Relay 2 contact open when errors are present
K1 /Warning	7	Relay 1 contact open when warning or day mode active
GND	8	Ground
SVInfo	9	GND (or open): Inactive, +24 V: Test mode, 9.6 kbit/s: Data mode
K1/2 Common	10	Relay 1 and 2 common
Shield	Housing	Earth grounding

Drawings

