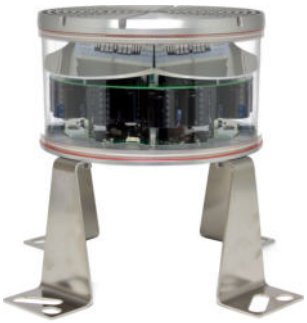
Datasheet Quantec Beacon: Sirius R4

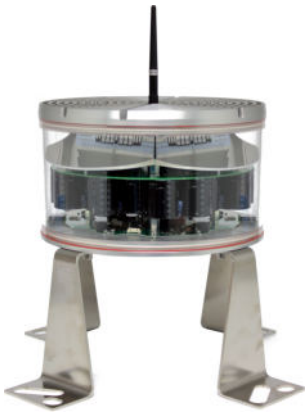
The Quantec beacon "Sirius R4" includes white, red and infrared LEDs in an Medium to High intensity obstacle light.

The beacon completely integrates the control inside a compact housing. Upon the connection of the power supply, each obstacle light system is ready for immediate use.

Examples of Sirius R4 Models



Sirius R4 Basic



Sirius R4 Mesh

Sirius R4 additional LEDs

Sirius R4 230 V

Sirius R4 100k

Key features

- UTC synchronized flashing using GNSS with global coverage
  - GPS, QZSS, GLONASS, Galileo, Beidou
- 2 RS485 communication interfaces
- Support for Visibility meter and ModBus digital I/O
- 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
- Alarm contacts
- Maintenance free
- Corrosion resistant materials for all surfaces
- UV and ozone resistant optical units and seals
- Single M16 connector for easy and fast installation

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

Configurable features

- Light profile switching support with a Quantec battery and power supply cabinet (DIP Switch)
- Day, Twilight and Night operation mode with different Light profiles (White, Red and IR, depending on configuration)
- Operation mode for Day and Night can be switched by Astronomical clock or Integrated brightness sensors
- Tower light activation by Day/Night relay.
- Digital input to activate test-mode
- Customizable Light profiles

Optional features

The Quantec Signals obstacle light "Sirius R4" can be ordered with different optional features. See following table for available versions.

Optional Features	Infrared LEDs > 500 mW/sr	Mesh	Heater	230 V AC	20 k	50 k	100 k	1-3° beam peak angle
Name								
Sirius R4 basic	⊖	⊖	⊖	⊖	✓		⊖	⊖
Sirius R4 Mesh	⊖	✓	⊖	⊖	✓		⊖	⊖
Sirius R4 IR	✓	✓	✓	⊖	✓	✓	⊖	✓
Sirius R4 230 V	⊖	⊖	⊖	✓	✓		⊖	⊖
Sirius R4 100k	✓	✓	✓	⊖			✓	✓

Performance characteristics

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

Supported Light profiles

- ICAO Medium-Intensity Type A, B and C
- STAC Medium-Intensity, Type A, B, C and 200 cd
- ICAO High-Intensity, Type B
- ICAO High-Intensity, Type B (partial light according to Trafi)
- Argentina 20k / 4k
- Feuer W, rot ES (2009)
- Infrared 500 mW/sr according to Trafi

Technical specifications

General

Model name	Sirius R4
Illuminants	up to 96 white LEDs up to 48 red LEDs up to 8 infrared LEDs
Approvals	Certified according to: • ICAO Annex 14, 7th edition
Conformity	CE, RoHs

Electrical characteristics

Rated voltage		24 V DC ±25%	230 V AC ±10%
Overvoltage protection		Class III according to IEC 61643-11	
Relay contact rating	Max. switching voltage	30 VDC	
	Rated current	100 mA	

Mesh Radio

Frequency	2.4 GHz ISM band
Transmission range	approx. 1.5 km

Physical characteristics

	Basic	Mesh / additional LEDs	230 V	100 k
Dimensions with mounting plate (H×W×D)	300 mm x 374 mm x 374 mm	408 mm × 374 mm × 374 mm	273 mm x 374 mm x 374 mm	648 mm × 374 mm × 374 mm
Weight	approx. 8 kg		approx. 9 kg	approx. 22 kg
IP rating	IP 68			
Material	Anodized aluminum, seawater resistant			
Mounting	Z shape holders			