BEACON
BMA1245

INFRARED BEACON FOR CHASSIS POSITIONING

DESCRIPTION

BEACONS are transmitters of coded infrared light working with the SIRRAH sensors.
They materialize the point to be located or to be tracked.

The infrared energy is transmitted by pulses enabling a big distance of use.
Beacon uses only one power supply to work : no connection with the SIRRAH sensor.

CONSTITUTION

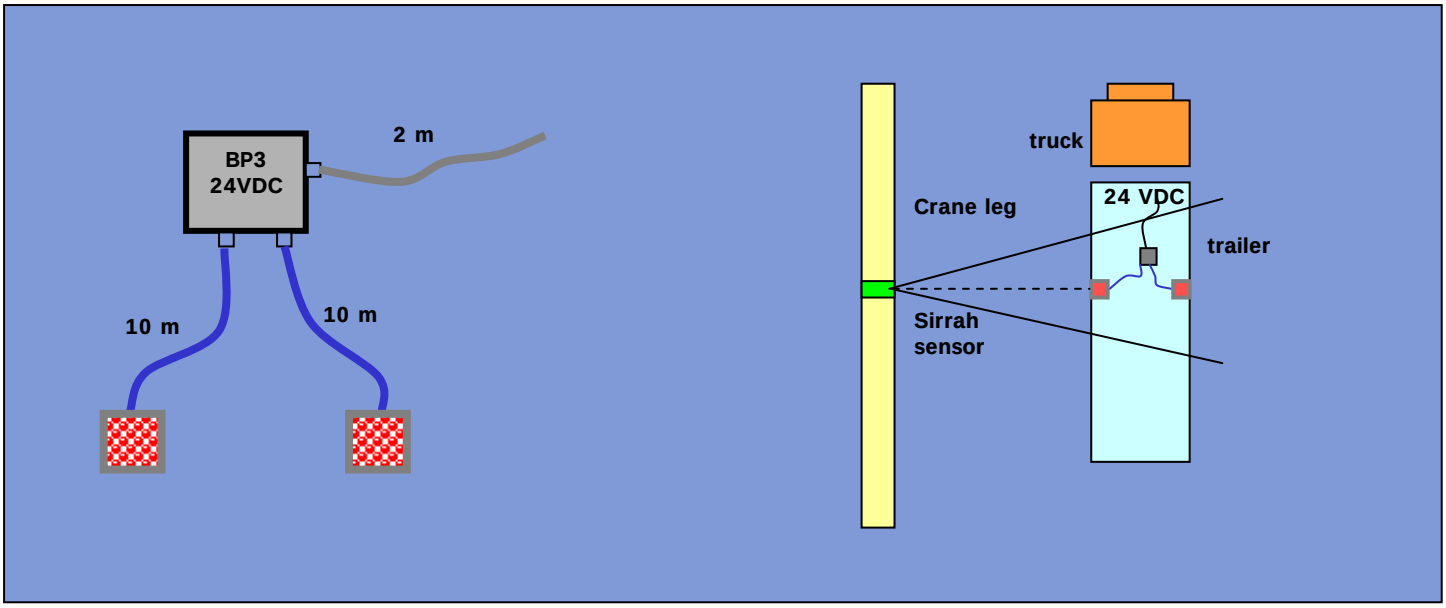
It is made of LEDs with a 880 nm wavelength, connected in a matrix way.
The emission angle is +/- 25°.
An associated electronic board gives the energy power and the oscillator function to drive the LEDs with pulses and modulated energy.

USE

BMA1245 beacons are designed to work outside.
They are used for chassis and straddle carrier positioning under RMQC.

They are waterproof (IP66) and set up in an aluminum cast box.
Tightness, impact and vibration resistance are improved by using resin coated electronic boards and silent blocks.

They are particularly fitted to work up to 15 meters with SI19 SIRRAH sensor.



contacts@arck-sensor.com / www.arck-sensor.com

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TECHNICAL SPECIFICATIONS

Transmitter type :	**Infrared LEDs**
Wavelength :	**880 nm**
LEDs alimentation :	**By pulses**
Power supply :	**24 VDC**
Beacon emission angle :	**+/- 25°**
Type :	**Mono beacon with two LEDs facets functioning simultaneously**
Cycle time :	**5 msec (MODE 1)**
Waterproof :	**IP66**
Weight :	**700 g**
Size :	**24VDC power supply box 120 x 120 x 88 mm**
	LEDs facet 50 x 45 x 30 mm
Use :	**10VA**
Beacon raising :	**15 m with a SIRRAH TS19**
Display :	**One Green LED for Power ON**

SALES REFERENCES

BMA1245	**Cone of +/- 25°**

CHARACTERISTICS OF RUGGEDNESS

- **To support 24VDC power supply of a truck (maximum voltage 40VDC, minimum 20VDC.)**
- **To accept inversions of polarities on power wires (diodes of protection).**
- **To work on temperatures from -40°C up to +60°C.**
- **To resist to vibration of a trailer driving on road without shock absorbers such as silent- block.**
- **To support saline fog.**

For this application it is necessary to use Sirrah SI19 :
TS19 sensor included in its BO35 protective housing.