

DESCRIPTION

BMU Beacons are coded infrared light transmitter working with the SIRRAH range products. They materialize the points to be located or to be tracked.

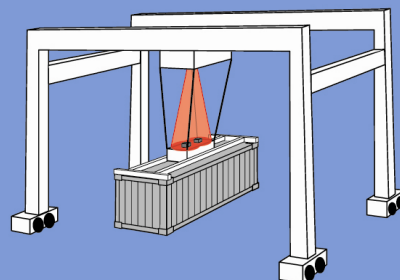
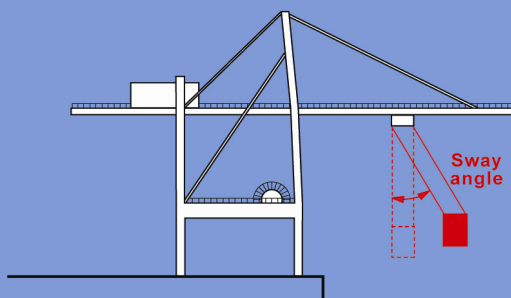
A special coding enables the sensor to detect a beacon among two or three.
Several beacons can be analyzed in the same time by the same sensor. In this case the beacons are synchronized with a special link.

CONSTITUTION

It is made of LEDs with a 880 nm wavelength, connected in a matrix way.
Emission angles depend on the beacon version. : the beam can be +/-12°, +/-25°, or double beam.
An associated electronic board gives the energy power and the oscillator function to drive the LEDs with pulses and modulated energy. This new beacon allows a software control for commissioning: working mode, beacon codes and infrared power are adjustable.

USE

BMU beacons are designed to work outside.
They are waterproof (IP66) and set up in an aluminium cast box.
Waterproofness and impact and vibration resistance are improved by using resin coated electronic boards and silent blocks.
They are particularly fitted to work up to 60 meters. They are used, for hoisting and handling applications for sway and skew regulation on cranes.
They are produced to work alone or, on the opposite, in synchronization with others : use with a "multi beacon" sensor. In this case, one of the beacons has the "master" function for the others which are "slaves" and received the synchronization signal.



Skew measure
with 2 beacons

TECHNICAL SPECIFICATIONS

Transmitter type : Infrared LEDs
 Wavelength : 880 nm
 Leds Alimentation : By pulses
 Beacon emission angle : +/- 12°, +/- 25° or double cone +/-6° and +/- 12°
 Infrared power : Adjustable by software
 Type : 1-beacon (mode 1) or 2-beacon (mode 6) or 3-beacon (mode 7), defined by software
 Cycle time : 5 msec (Mode 1), 15msec (Mode 6), 20msec (Mode 7)
 Display : One Green LED for Power ON
 Waterproof : IP66
 Weight : 700 g
 Size : 120 x 120 x 88 mm
 Shocks protection : Delivered with a plate and 4 shock absorbers (rubbers)
 Power supply : 110 VAC or 220 VAC (depending on user's cabling) or 24VDC
 Fuse : Internal automatic fuse (resettable fuse)
 Use : 10VA

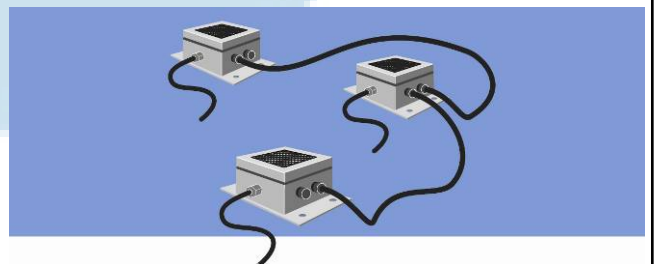
WORKING RANGE	BMU-01	BMU-02	BMU-05
LS08	25m	18m	25m
TS19	60m	50m	
TS20	60m	60m	

SALES REFERENCES

BMU-01 (110/220VAC) Cone of +/- 12° for sway and skew on quay cranes
 BMU-02 (110/220VAC) Cone of +/- 25° for sway on quay cranes
 BMU-05 (110/220VAC) Cones of +/- 6° and +/-12° for high accuracy skew on stacking cranes
 BMU-12 (24VDC) Cone of +/- 25°

OTHER PRODUCTS OF THE RANGE

TS20 SIRRAH sensor +/- 8,8° SI20 TS20 sensor + BO35 protective housing factory mounted
TS19 SIRRAH sensor +/- 9° SI19 TS19 sensor + BO35 protective housing factory mounted
LS08 SIRRAH sensor +/- 7° SI08 LS08 sensor + BO35 protective housing factory mounted



Nota : Non-contractual document, specifications may be subject to modification without prior warning / May 2010 / DCFP 006 12