

# Position Sensor 제품 사양

## 220VAC / 110VAC POWER SUPPLY

Cable colour	Description
Brown	Phase of power source
Blue	Neutral of power source
Green/Yellow	Earth

Table 2: 220VAC / 110VAC power supply connection

## 24VDC POWER SUPPLY

Cable colour	Description
Brown	+24V
Blue	Neutral (0V)
Green/Yellow	GND (Earth)

Table 3: 24VDC power supply connection

## RS232 SERIAL LINK


Signal name	Description
RX	SIRRAH receive line
TX	SIRRAH transmit line
Ground	SIRRAH circuit ground

Table 4: RS232 communication cable

## RS422 SERIAL LINK

Signal name	Description
RX1	SIRRAH negative receive line
RX2	SIRRAH positive receive line
TX1	SIRRAH negative transmit line
TX2	SIRRAH positive transmit line
Ground	SIRRAH circuit ground

Table 5: RS422 communication cable

	TS10	TS19	POSCO	TS20	LS08	POSCO
Electrical specifications						
Power supply	220 VAC or 120 VAC	24VDC			24VDC	
Consumption	17 W					
Mechanical specifications						
Sensor dimensions	about 255 x 120 x 125 mm					
Weight	about 1,8 Kg					
Sensor tightness	IP54 sensor alone					
	IP65 with BO25 housing					
Temperature						
- Storage	- 20° up to 70°degrees Celsius					POSCO Model
- Operating	- 20° up to 50°degrees Celsius					
- On special request	- 40° up to 50°degrees Celsius s					
Performances						
Visual field	+/- 6.5°	+/- 9°		+/- 8.8°	+/- 7.5°	
Max working distance (3)	35m	45 m		60 m	25m	
Operating mode	Multi Beacon	Mono Beacon		Multi Beacon	Multi Beacon	
Measure frequency	up to 200 Hz					
Numerical resolution	0,001 degree					
Best resolution (1)	0,01 °					
Non linearity (2)		- Better than 0,12 ° on 20% of the square field - Better than 0,24 ° on 50% of the square field		- Better than 0,02° in the sensor centre - Better than 0,1° on 50% of the field		
Stability	TBD					
Temperature drift	TBD					

**LS 08-POS view angle +/-7° high accuracy, short working range < 20 M, 24VDC for steel.(POSCO exclusive model)**

### Technical Features :

*BMA-1123 cone of  $\pm 10^\circ$  220V/380V ac (on specific demand)*  
*BMA-1223 cone of  $\pm 25^\circ$  220V/380V ac (on specific demand)*  
*BMA-1233 cone of  $\pm 25^\circ$  110V/220V ac (on standard demand,*  
*BMU-12 cone of  $\pm 25^\circ$  24dc (on standard demand, posco*



### Applications :

- \* Sway measurement for regulation;
- \* Spreader skew measurement ;
- \* Spreader height control;
- \* Trucks positioning under the crane;
- \* Anti "crab" position system for very long overhead bridges
- \* System anti-collision for the crane hoist.
- \* Closed loop regulation:
  - Overhead bridge crane guidances
  - Building sector machine guidance
  - Railway sector machine guidance
  - Tunnels sector machine guidance
- \* Measurement of physical sizes:
  - Lengthening measurement
  - Volume measurement
  - Vibration measurement
  - Speed measurement
  - Distance measurement
  - Angle measurement
  - Skew measurement



*Closed beacon*



*Beacon coponants*



*Opened beacon*