

## 1. General

URG-04LX-UG01 is a laser sensor for area scanning. The light source of the sensor is infrared laser of wavelength 785nm with laser class 1 safety. Scan area is 240° semicircle with maximum radius 4000mm. Pitch angle is 0.36° and sensor outputs the distance measured at every point (683 steps). Laser beam diameter is less than 20mm at 2000mm with maximum divergence 40mm at 4000mm.

Principle of distance measurement is based on calculation of the phase difference, due to which it is possible to obtain stable measurement with minimum influence from object's color and reflectance.

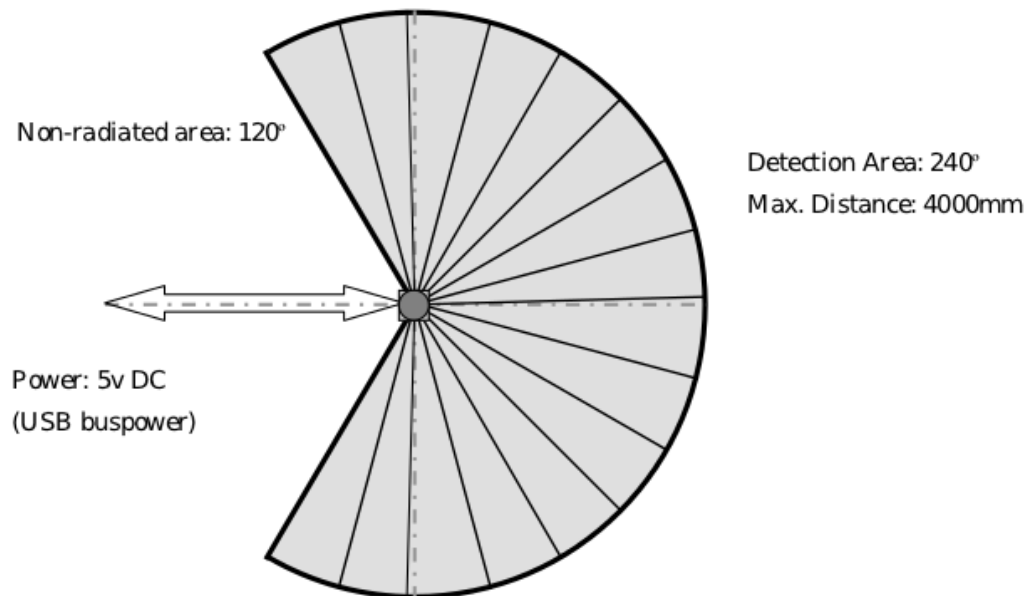


Figure 1

### Note

Figure 1 shows the detectable area for white Kent sheet (70mm×70mm). Detection distance may vary with size and object.

## 2. Important Notice

- This sensor is designed for indoor use only.
- This sensor is not a safety device/tool
- This sensor is not for use in military applications
- Read specifications carefully before use.

Title	URG-04LX-UG01 Specification	Drawing No	C-42-3635	2/4
-------	-----------------------------	------------	-----------	-----