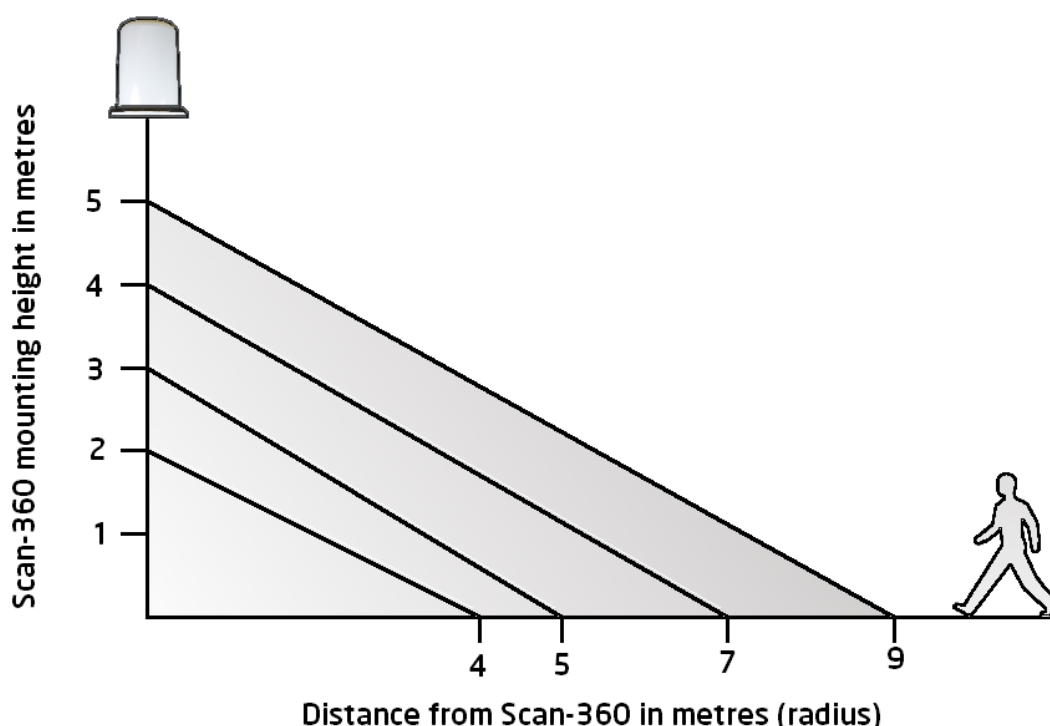




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This note describes the typical size of the dead zone that exists underneath the Scan-360 radar, type number 16/L/020. The radar base plate obscures the line of sight between the internal antennas and very close targets, reducing detection probability underneath the radar. The dead zone size increases as the radar is mounted higher off the ground.



Characterisation of the dead zone was undertaken at multiple mounting heights. In every case the target was a human walking directly toward the Scan-360 over a flat concrete “clutter-free” surface. Radar sensitivity was set to 1 and clutter filter set to 6 as these are realistic settings for typical installations.

The actual dead zone may be slightly larger if the target is smaller or moves tangentially (neither directly toward nor away from radar), or if the environment is more cluttered.

The typical dead zone sizes shown in this note can be used to aid site planning. When dead zone size is critical we recommend making on-site measurements to determine detection probability. Please contact us to discuss the loan of equipment for testing and evaluation purposes.

Mounting height	Dead zone	Area outside dead zone
2 m	4 m	99.96 %
3 m	5 m	99.94 %
4 m	7 m	99.88 %
5 m	9 m	99.80 %

When radar coverage is set to maximum (200 m in all directions), even with 5 m mounting height the typical dead zone reduces the detection area by only 0.2 %.

