

FORMULA SYSTEMS VISION PLUS - FZU 1442US01

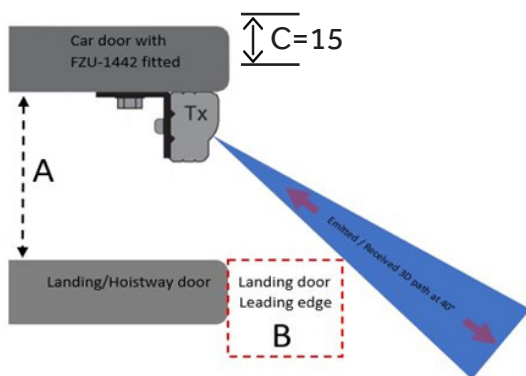


CAR TO HOISTWAY / LANDING DOOR CLEARANCE

The FZU-1442 product has been designed to remove the issue of false detections occurring on the 3D system that maybe caused by the landing door travelling/nudging in front of the car door.

The other possible scenario is that when the landing door is travelling in front of the car door and exceeds a set distance that it can block or obscure the 3D system, but the product has been designed to limit this from occurring.

Installation distances still need to be considered when it comes to the fitting of the product to keep within the product design in relation to the distance that the landing door can lead in front of the car door.



The landing door leading edge, **Point B** can be calculated using the **car to landing door distance, Point A** and the **3D emitted/received angle of 40°**.

THE FORMULA TO USE IS:
 $B = A - C * \tan(40)$

For example: With a car to landing door distance of 100mm
 $B = 100 - 15 * \tan(40) = 71.3\text{mm} (2.8\text{'})$

Above shows only the transmitter unit, (TX) the same would also apply to the receiver unit.

Table below is for reference and shows the calculation for various Car to Landing door distances.

ALL ARE SPECIFIED IN MM		
CAR TO LANDING DOOR DISTANCE (POINT A)	LANDING DOOR LEADING DISTANCE (POINT B)	RESULT IN INCHES
30	12.6	0.5*
40	21.0	0.8
50	29.4	1.2
60	37.8	1.5
70	46.2	1.8
80	54.5	2.1
90	62.9	2.5
100	71.3	2.8

*Not practical for clearances. Sil to Sil running clearance min 18mm would also not be met.

