

# FORMULA SYSTEMS TECHNICAL DATA SHEET

## VISION PLUS - FZU 1442US01



### SUMMARY

The new Vision Plus elevator door safety solution combines 2D and 3D technology in each edge to deliver highly intelligent door safety technology.

Each edge transmits and receives signals individually which makes detection ability much more concise. Being able to detect signals more accurately will significantly decrease the risk of no-detect when passengers approach from different angles and provides greater reliability when detecting multiple people within the landing area.

The protection zone, specifically designed for minimal protrusion into the landing, also assists in eliminating nuisance door reversal.

The Vision Plus total package comprises of a 2D/3D receiver, transmitter, universal interface power supply and comes as standard with universal mounting options. The simplicity of combined technology in less parts can have a significant impact on ease of installation and overall cost.

### PRODUCT FEATURES



CONFORMS TO ASME A17.1-2019/B44-19



### PRODUCT OVERVIEW

MODEL	VERSION	DIMENSIONS (MM)			RANGE (M)		MOUNTING		BEAMS	
		W	D	H	MIN	MAX	DOOR	TRACK	QTY	TOP
Vision Plus	FZU 1442US01	30	20	2136	0	1.8	YES	NO	42	1500

### STANDARD CHARACTERISTICS

PRODUCT STANDARD CHARACTERISTICS (UNLESS OTHERWISE NOTED)	
Response time: <100ms	Light immunity: > 100,000 lux
Output: NPN	Indicators (LED): Red obstruction
Ingress protection: IP54	Temperature: Ambient -20°C to +70°C, Storage -40°C to +80°C
Operating voltage: 24V DC (18 - 30)	Material: Al, Alloy casing, plastic lens cover
Current Consumption: 90 mA Max RMS (60mA ECO mode)	Approvals & Certification: cULus, CE



# FORMULA SYSTEMS

## TECHNICAL DATA SHEET

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#### TECHNICAL SPECIFICATIONS

ITEM	DETAIL	COMMENTS
2D system	Generic offset beam technology	See Patents: EP1212506 GB2254916
Number of beams	42 non-focused beams	
Number of LEDs	21	
LED spacing	75mm	
3D System	3-dimensional detection	Switch selectable proximity sensor on both sides of the doors
Distance detection	Automatically recognises when the door has reached its fully open location	Self-test initiated at this point
Self-test	Performs a test of both 2D and 3D systems before door closing	When distance detection point has been reached self-test is performed
Response time	100 ms (nominal)	Relates to point of detection in scan cycle
Range of detection	0 – 1800 mm	Dynamic installation only
Light immunity	100,000 lux	2D and 3D Feature
Angular displacement	10°	
Alignment tolerance	>10 mm vertical >10 mm horizontal	
Power failure mode	Door signals defaults to open status	Cable disconnect or break
Operating voltage	24 volts (nominal) DC	18 volts min, 30 volts max DC
Current consumption	90 mA Max RMS 60 mA ECO mode	Total both units
Environmental protection	IP54	Conformal coated electronic components
Operating temperature range	-20°C to +70°C	
Storage temperature range	-40° to +80°C	
Unit size	20mm x 30mm x 2136mm	01 = 2.02m 02 = 2.13mm
Cable supplied	2 x 4m	
Case material	Aluminium Alloy	Extrusion, Black Anodised
Cover (filter)	Infra-red transparent plastic	Extruded PVC
Installation kit	Instructions Door Mount Brackets - Qty 10 Slam Mount Bracket - Qty 1 Cable Clips - Qty 10 Door Cable Retainer - Qty 2 Drill Bit 3.6mm - Qty 1	Installation kit is inclusive of screws fasteners etc.
Packaging	Tube 100mm diameter	
System markings	cULus, CE	EN12015, EN12016

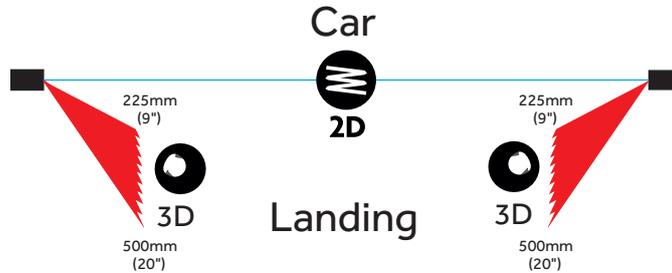


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## PRODUCT OUTLINE

### PLAN VIEW



### ENTRANCE VIEW

