

FORMULA SYSTEMS TECHNICAL DATA SHEET

SLIMSCREEN - FCU-0735 LR



SUMMARY

This product features a multiplexed diagonal array of 35 infra-red (IR) beams, packaged in a 9mm wide x 27mm long aluminium housing.

Our interfaces combine with SlimScreen products in applications where direct connection is not appropriate. Housed in a coated steel casing, installation is quick and simple. The product enables the user to select multiple output relays and buzzer/nudging options.

Signal connections to the controller are provided by a pair of relays with changeover contacts. In order to ensure a failsafe response to power failure the detection relay, which is normally in the energised mode, will drop out when any of the detection systems are interrupted.

FEATURES

- Standard and Long-Range options
- Can be installed directly or with a Formula Systems Universal Interface
- Designed specifically for European and Asia Pacific markets
- No-fuss installation with flexible power connection options

PRODUCT OVERVIEW

MODEL	VERSION	DIMENSIONS (MM)			RANGE (M)		MOUNTING		BEAMS		SENSORS		EN81-20 COMPLIANT
		W	D	H	MIN	MAX	DOOR	TRACK	QTY	TOP	QTY TX	QTY RX	Y/N
SlimScreen	FCU-0735 Long Range	9	27	1866	0.7	6.0	YES	YES	35	1654	18	18	N

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: 100mA (Typical)	Approvals & Certification: UL, cUL, CE



FORMULA SYSTEMS

TECHNICAL DATA SHEET

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TECHNICAL SPECIFICATIONS

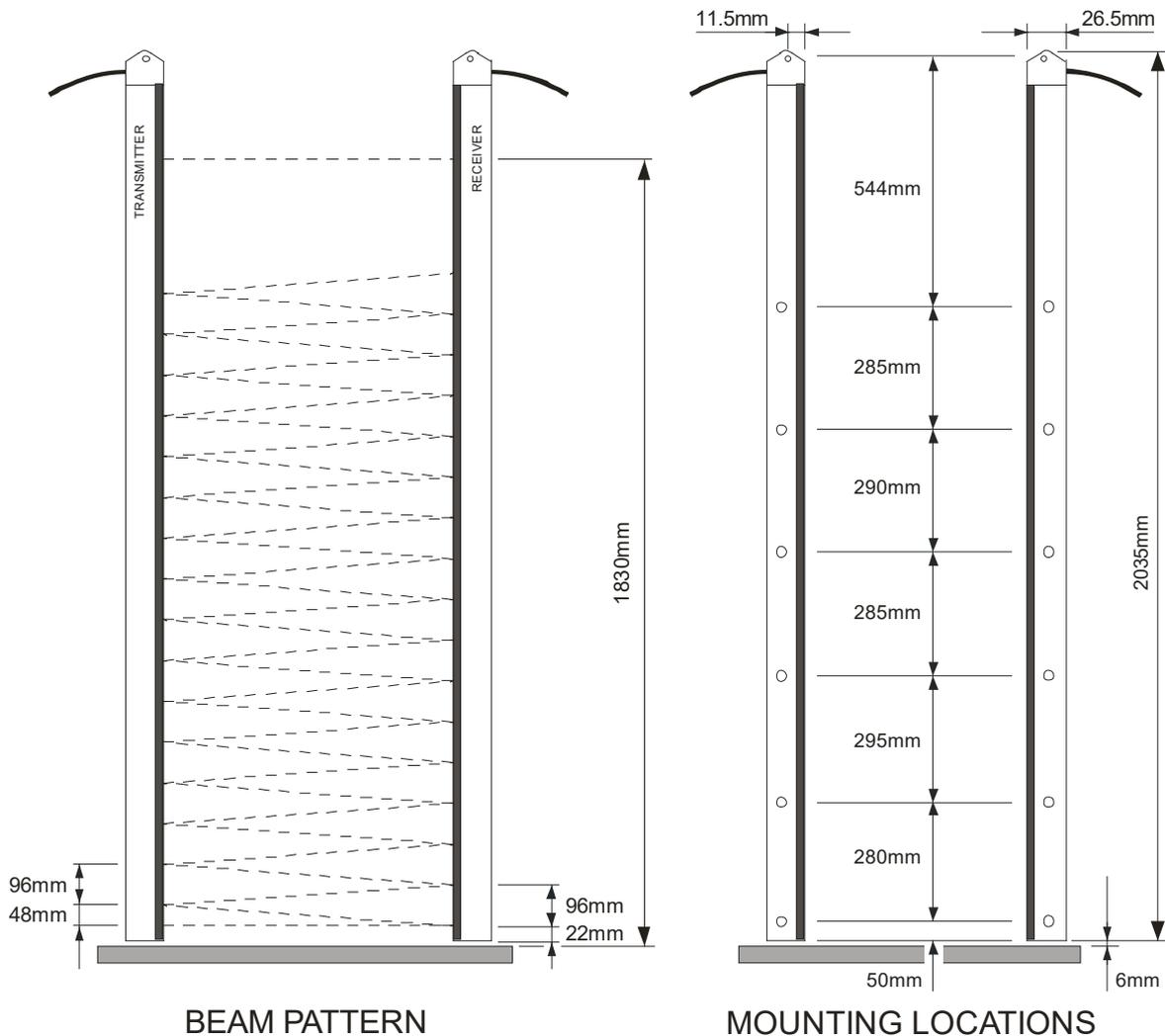
ITEM	DETAIL	COMMENTS
Number of beams	35 non-focused beams	Infra-red
Number of sensors	18	See drawing outline
Sensor spacing	96mm (onespacing @ 314mm)	See drawing outline
Scan Type	Interleaved	
Response Time	48 - 96 milliseconds	Relates to point of detection in scan cycle
Range of detection	1800mm	Switth selected
Light immunity	100,000 lux	Visible light
Angular displacement	10° (inclusive)	
Positional mounting tolerance	+/- 10mm vertically +/- 4mm side by side	
Fail safe conditions	Faulty cable: Supply failure:	Fail safe to Open circuit faults Output switch to detect state
Operating voltage	24 volts	18 volts min / 30 volts max
Current consumption	<100 mA RMS	Total of both units
Control unit	Not required	Optional Universal Interface available
Environmental protection	IP54	Conformal coated electronic components
Operating temperature range	-20°C to +70°C	
Storage temperature range	-40°C to +80°C	
Unit size	9 x 26.5 x 2035mm	See product outline
Mounting	7 fixing points (provided)	See product outline
Cable supplied	2 x 2.7m long	Initial 900mm attached directly to unit. Remainder of cable connected via screw-fit inline connector. 
Case material	Aluminium alloy	Silver Anodised
Cover (filter)	Infra-red transparent plastic	
Installation	1 x Instructions 14 x Screws M4 x 14mm 14 x Nut M4 14 x Washer Spring M4 7 x Car Wall Clamps 1 x Hexagon Key	Socket head
Packaging	2070 long x 75mm OD x 2.2kgs	
System approvals	cULus, CE	EMC EN12015, EN12016



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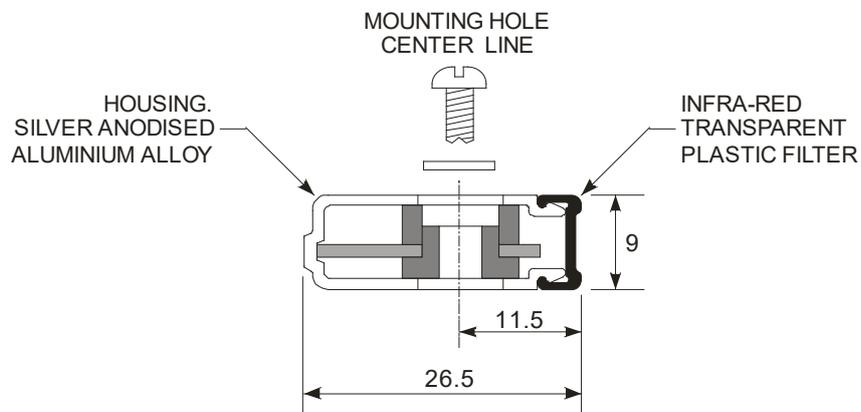


PRODUCT OUTLINE



BEAM PATTERN

MOUNTING LOCATIONS



FCU 0735 SERIES
(Nominal dimensions shown)

