

# FORMULA SYSTEMS TECHNICAL DATA SHEET

## SLIMSCREEN - FCU-0735



### 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 Standard	9	27	1866	0	3.0	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

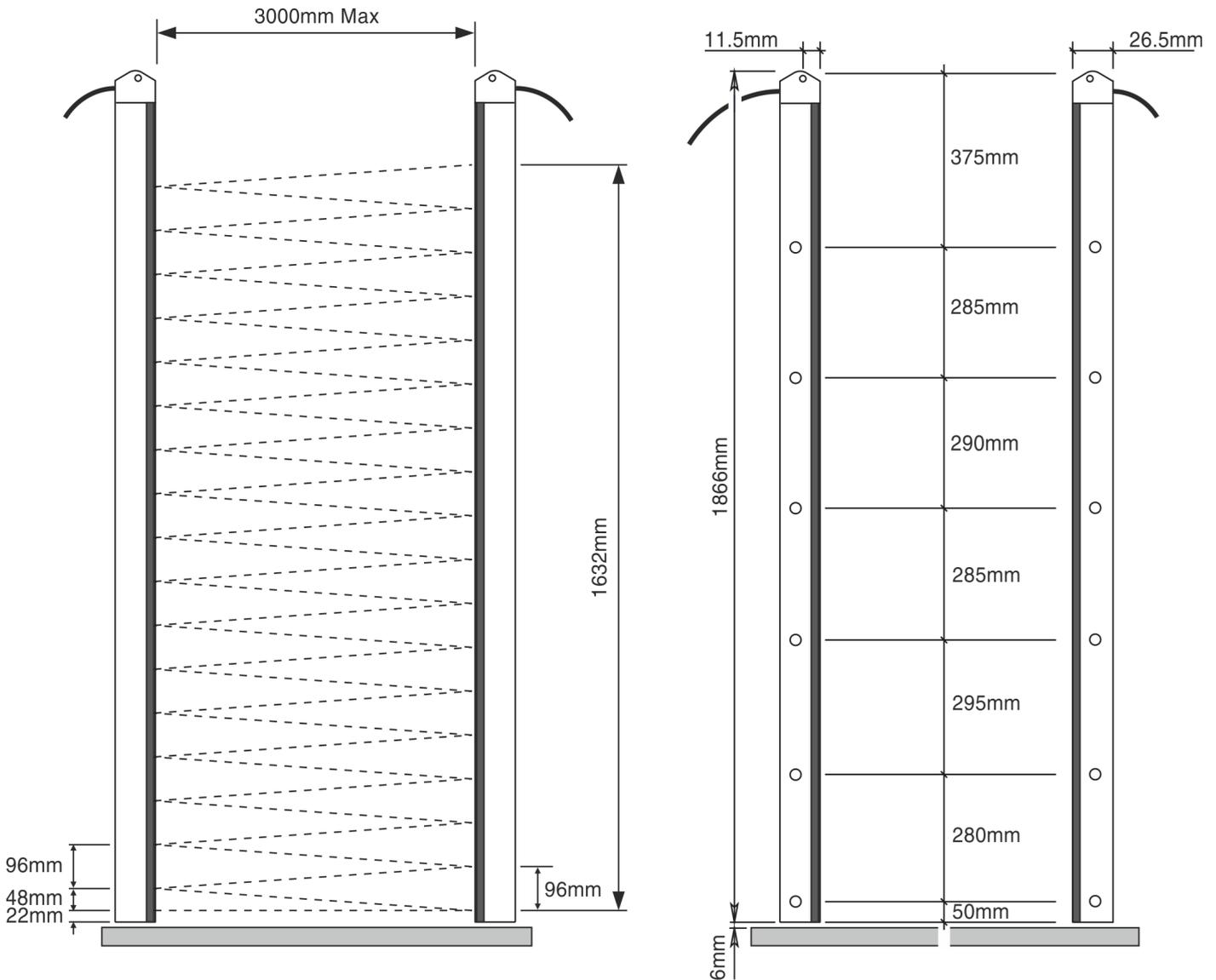
ITEM	DETAIL	COMMENTS
Number of beams	35 non-focused beams	Infra-red
Number of sensors	18	See drawing outline
Sensor spacing	96mm	See drawing outline
Scan Type	Interleaved	
Response Time	<100 milliseconds	Relates to point of detection in scan cycle
Range of detection	1500mm Door mounted 3000mm Track end mounted	Switch 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 1866mm	See product outline
Cable supplied	3.4m	Initial 900mm attached directly to unit. Remainder of cable connected via screw-fit inline connector. 
Case material	Aluminium alloy	Anodised
Cover (filter)	Infra-red transparent plastic	
Installation	1x Instructions 1x Installation kit	
System approvals	cULus, CE	EMC EN12015, EN12016



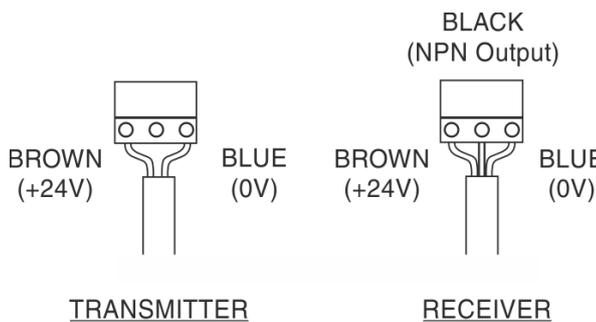
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## PRODUCT OUTLINE



### ELECTRICAL CONNECTION



### HOUSING

