FORMULA SYSTEMS
TECHNICAL DATA SHEET

SLIMSCREEN - FCU-0740

SUMMARY

This product features a multiplexed diagonal array of 40 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-0740 Standard	9	27	2010	0.7	3.0	NO	YES	40	1803	18	9	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.COM
SALES@FORMULA-SYSTEMS.COM

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TECHNICAL SPECIFICATIONS

ITEM	DETAIL	COMMENTS
Number of beams	40 non-focused beams	Infra-red
Number of sensors	18	See drawing outline
Sensor spacing	106mm (Main array)	See drawing outline
Scan Type	Interleaved	
Response Time	<100 milliseconds	Relates to point of detection in scan cycle
Range of detection	1000-3000mm	Swith 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 2010mm	See product outline
Cable supplied	2.7m	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	1 x Instructions 14 x Screws M4.0 x 14mm 14 x Nuts M4.0 14 x Washers Lock M4.0 7 x Car Wall Clamps 1 x Hexagon Key	
System approvals	CE	EMC EN12015, EN12016
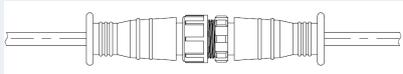
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PRODUCT OUTLINE

ENTRANCE SHOWN WITH FIXED MOUNTING
(TWO SPEED SIDE OPENING)

FCU-0740 OUTLINE DETAIL

BLACK
(NPN Output)

BROWN	BLUE	BROWN	BLACK	BLUE
(+24V)	(0V)	(+24V)		(0V)

TRANSMITTER   RECEIVER

ELECTRICAL CONNECTION