

Memco® Panachrome Elevator Light Curtains

Product Datasheet



Memco Panachrome is a revolutionary elevator safety detection system offering maximum passenger protection. The premium infra-red light curtain has coloured red and green indicators that operate on door movement to indicate opening and closing. The Panachrome is available with 2D or 3D detection in the landing zone for additional passenger protection.

This unique combined system is an effective solution for sites where passenger traffic is high or where additional safety measures are required. Reduction in door damage is a key advantage of using this system so Panachrome is ideal for these types of applications.

Typical applications include; Hospitals, Public Access Building, Hotels, Airports and prestigious buildings.

Panachrome is suitable for centre-opening and side-opening doors and its rigid extrusions and self-drillings screws make the product quick and easy to install. Additional features include power reduction software to prolong the life of the light curtain and an audible tone which can be set up to sound on detection.

Test diagnostics to detect system faults and a timeout function are also provided as standard with the Panachrome.

Key Features

- + Complies with EN81-70 legislation – Disability Discrimination Act
- + Coloured red/green indicators highlight door movement
- + 2D and 3D detector models available
- + 2D Coverage exceeds minimum requirements of 25mm to 1800mm
- + Dense infra-red 154 beam light curtain
- + Suitable for centre-opening and side-opening doors
- + Rigid extrusions for easy installation
- + Self-drilling screws for quick installation
- + 10mm & 43mm profiles available

Detector Profiles

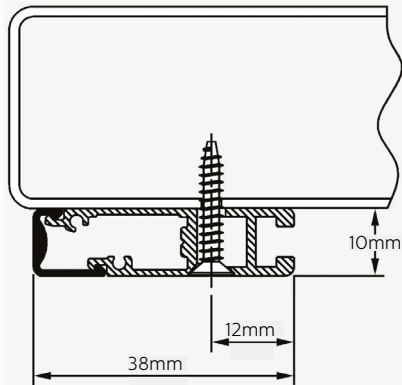


Fig. 1 10mm profile mounted using countersunk headed self-tapping screws

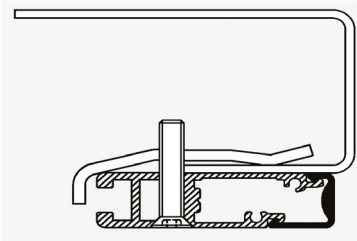


Fig. 2 10mm profile mounted using a fixing clamp plates

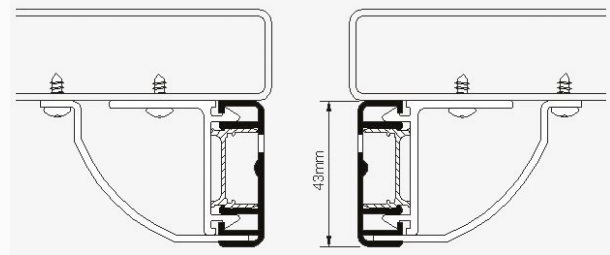


Fig. 3 43mm profile mounted for centre-opening using 2 'L' brackets and 2 finger guards

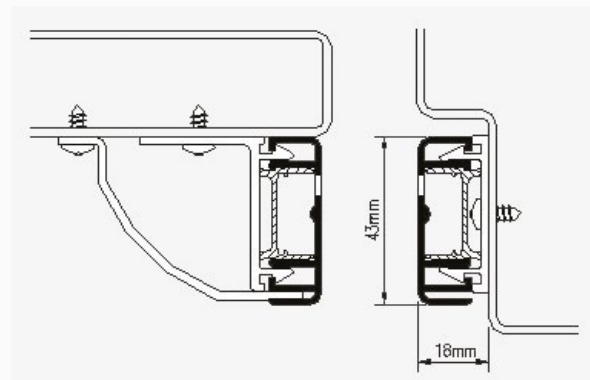


Fig. 4 43mm profile mounted for side-opening using an 'L' bracket with a finger guard and slam post bracket

3D Detection

The 3D Detection Zone covers from just above floor level to 1650mm. The 3D detection range is equal to approximately half the door separation (Fig 5). As the doors close the 3D detection zone moves inwards. The system can be configured for different operating modes

to suit particular installation needs. The Panachrome 3D detectors suit a wide variety of doors including both centre-opening and side-opening. The 3D Panachrome controller (C3850) is available for 18 to 25VDC and a universal AC supply of 85 to 240V.

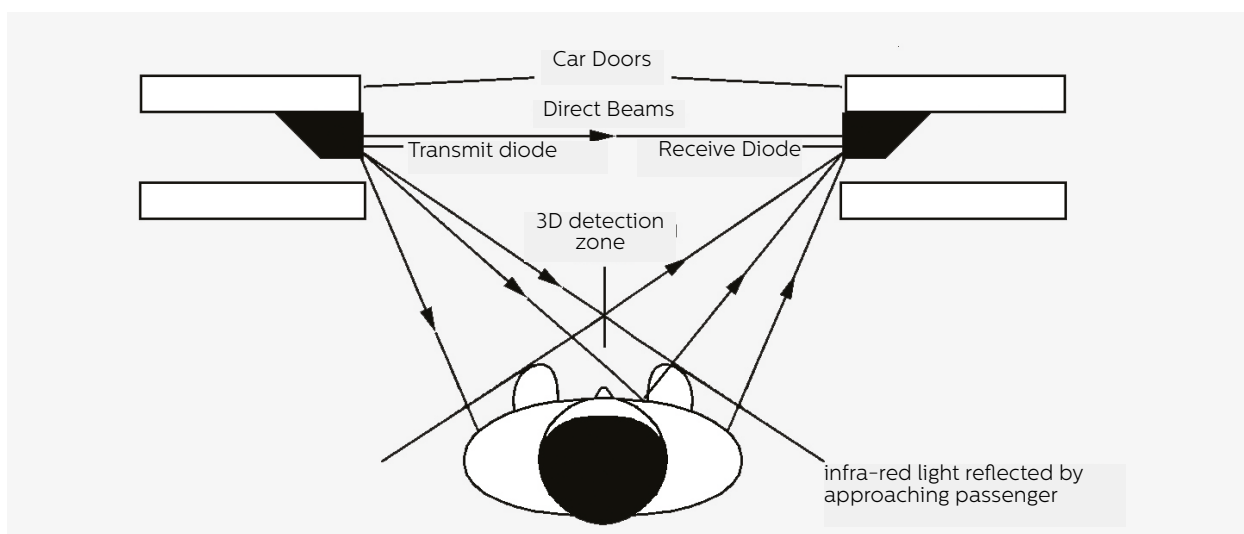


Fig.5 The operating principle of the Panachrome 3D showing the sensitive zone project into the landing.

Technical Specification

Product Code	C3540 (3D)	C3510 (3D)	C2540 (2D)	C2510 (2D)
Dimensions	43mm x 18mm x 2100mm	10mm x 38mm x 2000mm	43mm x 18mm x 2100mm	10mm x 38mm x 2000mm
Panachrome C3850 Controller	250mm x 206mm x 59mm	250mm x 206mm x 59mm	250mm x 206mm x 59mm	250mm x 206mm x 59mm
Number of Diodes	32	32	32	32
Number of Beams	154	154	154	154
Ext. Cables 015 455	4m	4m	4m	4m
Detector Specifications				
Distance between bottom beam and bottom of housing	18mm	17mm	18mm	17mm
Distance between top beam and bottom of housing	1832mm	1838mm	1832mm	1838mm
Range - 2D	6m	6m	6m	6m
Range - 3D	Typically, half door separation (0.3m-1.2m)		N/A	N/A
Maximum voltage in Detector	18VDC	18VDC	18VDC	18VDC
Maximum power consumption	5W			
Operating temperature range	-10°C to +65°C			
EMC Compliance	Emissions to EN 12015:2004; Immunity to EN12016:2004			
Ingress Rating	IP55	IP65	IP55	IP65
Light Immunity Rating	60,000 lux	60,000 lux	100,000 lux	100,000 lux
CSA Certification Details	1586962 (LR 53335), Master Contract: 173023, Date issued 2011/03/11			
Patent	Singapore 200506875 Turkiet B66B 13/16, E05F 15/00 USA US7,771,080 B2 Europa EP1626924 Danmark DK/EP 1626924 Australia O309310.1, 2012207023			
Sleep Software Patent Nr.	UK 9822359.7; Europa EP06966 619; Turkey 29918009.3; USA 5,698,824; Japan 291527/1999; Japan 3088936; USA 09/416,585; Kanada 2,153,514; Singapore 116374			
Controller Specifications				
Voltage requirements	Universal AC supply 85 to 240V AC or 18 to 25V DC			
Power consumption	10VA maximum with detectors fitted, visual indication on			
Door operator relay	250V AC, 24V DC at 5A			
Case material	Epoxy Painted Milk Steel			
Trigger duration	250mS typical 2D, 1 second typical 3D			
Timeout:	Switched ON/OFF 10-70 seconds adjustable			

Ordering Information

Part No.	Product Description	Profile
C3540 000	Set of 3D TX, RX Detectors and Fixing Kit	43mm
C3510 000	Set of 3D TX, RX Detectors and Fixing Kit	10mm
C2540 000	Set of 3D TX, RX Detectors and Fixing Kit	43mm
C2510 000	Set of 3D TX, RX Detectors and Fixing Kit	10mm
C2510 803	Clamp kit to fit one detector	
C2850 000	2D Universal 85-240V AC Panachrome Controller	
C3850 000	3D Universal 85-240V AC Panachrome Controller	

This product is designed for use in elevators with powered automatic doors where the closing energy is less than 10J in normal operation and less than 4J during de-activation of the light curtains or less as per EN81 requirements. It should be installed by qualified personnel only, therefore any use outside of this application is at the installer's own risk and should be assessed appropriately.

As a result of our policy of continual improvement, the information in this document is subject to change without notice and it is intended only as a general guidance on product performance and suitability. This information shall not form part of any contract.

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