

# 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 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-drilling 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

## Detector Profiles

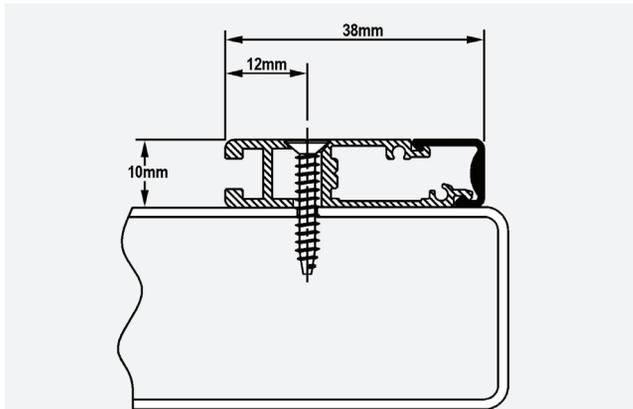


Fig. 1 10mm Profile mounted using countersunk headed self-tapping screws

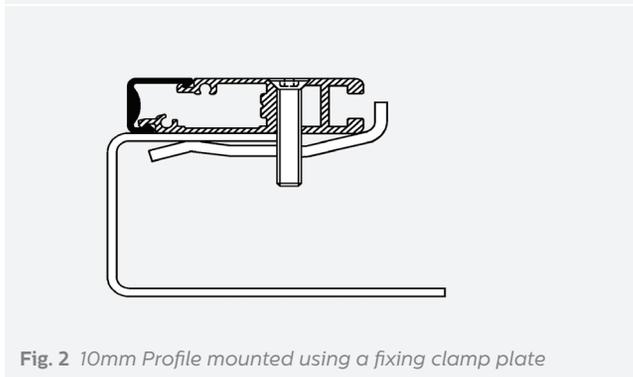


Fig. 2 10mm Profile mounted using a fixing clamp plate

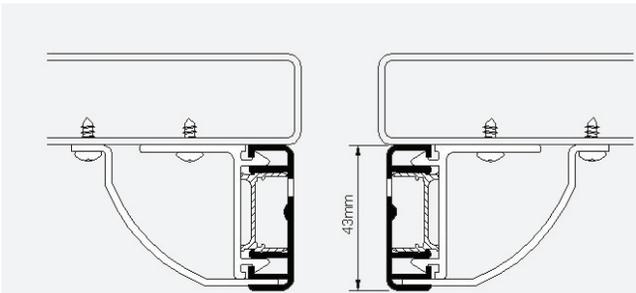


Fig. 3 43mm Profile mounted for centre-opening using 2 'L' brackets and 2 finger guards

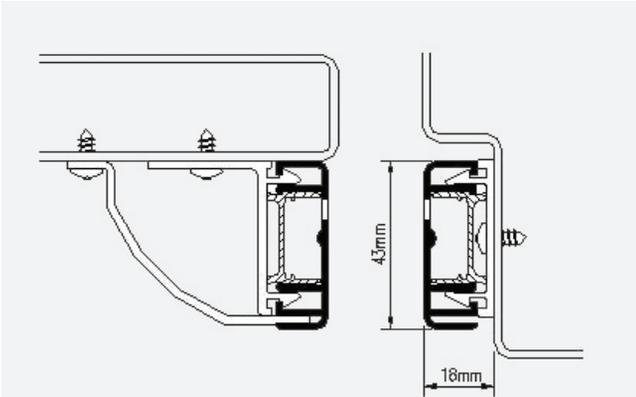


Fig. 4 43mm Profile mounted for side-opening using an 'L' bracket with a finger guard and slampost bracket

### 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.

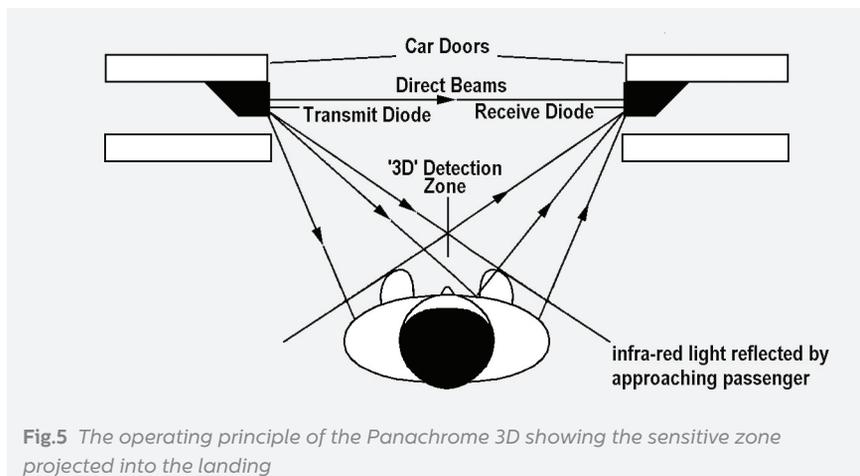


Fig.5 The operating principle of the Panachrome 3D showing the sensitive zone projected into the landing

### Available Models

- + Panachrome 10mm Profile
  - Suitable for virtually all lifts
  - 2D 32 Diode / 154 Beams
  - 3D 32 Diode / 154 Beams
- + Panachrome 43mm Profile
  - Suitable for wider sill arrangements
  - 2D 32 Diode / 154 Beams
  - 3D 32 Diode / 154 Beams

# Technical Specification

Size	C3540	C3510	C2540	C2510
Panachrome Dectectors	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
Ext. Cables 015 455 (2 cables req'd per set)	4m	4m	4m	4m
<b>Detector Specifications</b>				
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 TX or RX	1.7W each when visual indication turned on			
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			
Patents	Singapore 200506875 Turkey B66B 13/16, E05F 15/00 USA US7,771,080 B2 Europe EP1626924 Denmark DK/EP 1626924 Australia O309310.1			
Sleep Software Patent Nos.	UK 9822359.7; Europe EP06966 619; Germany 29918009.3; USA 5,698,824; Japan 291527/1999; Japan 3088936; USA 09/416,585; Canada 2,153,514; Singapore 116374			
<b>Controller Specifications</b>				
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 Mild Steel			
Trigger Duration	250mS typical 2D, 1sec 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 2D TX, RX Detectors and Fixing Kit	43mm
C2510 000	Set of 2D 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	

# AVIRE

Memco is a brand of Avire

### Avire Ltd

Unit 1, The Switchback  
Gardner Road  
Maidenhead  
Berkshire  
SL6 7RJ, UK

T: 01628 540100  
F: 01628 621 947  
E: sales.uk@avire-global.com  
W: www.avire-global.com