



AVIRE Solutions

Lift light curtains

Connecting & Protecting People

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Introduction to AVIRE	1
Lift Light Curtains	2
Lift Light Curtains Panachrome Plus	3
Lift Light Curtains Panachrome	6
Lift Light Curtains Smart 3D	8
Lift Light Curtains Pana 40+	11
Lift Light Curtains E-Series	17





Introduction to AVIRE

AVIRE is a global manufacturer of lift safety and communication solutions, including detectors, emergency telephones, cellular communication devices, and monitoring systems. Our trusted brands are relied upon by engineers, consultants, and building managers worldwide.

AVIRE brings together trusted product names — MEMCO, MICROKEY, RATH, and JANUS — each with a strong legacy in life safety, emergency communication, and lift technology. Operating across key global regions, our teams combine local expertise with global insight to support customers throughout the entire product lifecycle — from planning and installation to long-term service and modernization. Our product portfolio includes advanced light curtains, emergency telephones, cellular communication devices, and remote monitoring systems. AVIRE's reliable solutions are trusted by engineers, consultants, and building managers worldwide to keep lift systems safe, connected, and compliant in a wide variety of environments.



Lift Light Curtains

More than 2 million AVIRE light curtains have reached customers ranging from global elevator manufacturers to local installers.



Lift Light Curtains Panachrome Plus

Overview

The MEMCO Panachrome+ lift curtain with red and green LEDs highlights door movements, making lifts safer and reducing accidents. 3D detection extends passenger protection into the landing zone, and remote diagnostics reduce site visit frequency.

Benefits

Dense infra-red 234-beam light curtain 48 diodes Patented red and green LED technology 2D and 3D detector models available Compatible with Smart 3D detector for enhanced safety and reduce call-outs Connects to programmable CANBus Controller for easy installation and remote monitoring via AVIRE HUB Suitable for centre-opening and side-opening doors Available in 10mm and 43mm profiles

Technical Specifications

Parameter	Value
Detector Dimensions	43mm x 16mm x 2005mm 10mm x 33mm x 2000mm 43mm x 16mm x 2005mm 10mm x 33mm x 2000mm
G3852 Controller Dimensions	239mm x 172mm x 51mm
Number of Diodes	48
Number of Beams	234
Ext. Cables	015 455 Length 4m

Detector Specifications

Parameter	Value
Monitoring height minimum	20mm
Monitoring height maximum	1800mm
Range - 2D	6m
Range - 3D	Typically, half door separation (0.3m-1.2m) N/A N/A
Maximum voltage in Detector	12VDC
Maximum power consumption	6W
Operating temperature range	-10°C to +65°C
EMC Compliance	Emissions to EN12015:2020; Immunity to EN12016:2013 FCC 47 CFR, Part 15 Subpart B, Class A ICES-003 Iss 7, Class A Ingress Rating IP65
Light Immunity Rating	>100.000lux

Controller Specifications

Parameter	Value
Voltage requirements	Universal AC supply 85 to 240VAC or 15 to 28VDC*
Power consumption	31W maximum with detectors fitted and indicators ON
Door operator relay	250V AC, 24V DC at 5A
Trigger Duration	350mS typical 2D, 1 second typical 3D
Timeout Switched	ON/OFF 10-360 seconds adjustable
2D Detection Response Time	Typically < 100ms

Information

Item	Description
G3540 000	Set of 3D TX, RX Detectors and Fixing Kit 43mm G3510 000: Set of 3D TX, RX Detectors and Fixing Kit 10mm G2540 000: Set of 2D TX, RX Detectors and Fixing Kit 43mm G2510 000: Set of 2D TX, RX Detectors and Fixing Kit 10mm G2510 803: Clamp kit to fit one detector G3852 000: Panachrome+ Controller (includes two 4m cables, one cable per edge) - 015 455: 4m extension cable SMART-3DS-S-01-000: Smart 3D Radar Sensor (Optional), ASME 17.1 SMART-3DS-S-02-000: Smart 3D Radar Sensor (Optional), Long Range (Non ASME 17.1)

Files and Resources

Certifications	Panachrome+ EN81-20 compliance report
Datasheets	Panachrome+ Controller Datasheet (English)
Install Guides	Panachrome 2D3D 10mm Install Guide V01 ML
	Panachrome 43mm Install Guide V01 ML
	Panachrome+ Universal Controller Install Guide
Support documents	Panachrome Plus vs Panachrome Comparison



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Related products



AVIRE HUB Lift Monitoring Software
Take control of your entire lift instal...



Lift Light Curtains Panachrome

Overview

The MEMCO Panachrome lift detector is ideal for high-traffic areas, e.g., hospitals, hotels, or airports. Patented red/green LED lights warn when the doors are closing, and sensors detect lift door blockage. Optional 3D sensors extend protection into the landing area.

Benefits

- Dense infra-red 154 beam light curtain
- Red and green LEDs highlight door movement
- 2D and 3D detection models available
- 2D Coverage exceeds minimum requirements
- Suitable for centre-opening and side-opening doors
- External controller for quick configuration and diagnostics
- Available in 10mm and 43mm profiles
- Complies with EN81-70 legislation

Files and Resources

Certifications	Panachrome+ EN81-20 compliance report
Datasheets	Panachrome+ Controller Datasheet (English)
Install Guides	Panachrome 2D3D 10mm Install Guide V01 ML
	Panachrome 43mm Install Guide V01 ML
	Panachrome+ Universal Controller Install Guide
Support documents	Panachrome Plus vs Panachrome Comparison



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Related products



[Lift Light Curtains Panachrome Plus](#)
The MEMCO Panachrome+ lift cu...



[Lift Light Curtains Smart 3D](#)
The MEMCO Smart 3D lift detector...



[Lift Light Curtains Pana 40+](#)
The MEMCO Pana 40+ is our best...



Lift Light Curtains Smart 3D

Overview

The MEMCO Smart 3D lift detector for Panachrome+ lift curtains is an innovative product that resolves common problems with 3D edges technology, reducing the false triggers caused by reflected light or flooring, stationary objects, dark clothing, and cross traffic.

Benefits

Patent pending Full passenger protection when combined with Panachrome+ 2D light curtains Reduces false 3D triggers with microwave radar technology Ignores cross-traffic of people moving past the lift Detects objects/people moving towards the lift Not affected by ambient light and reflective surfaces Surface mount options available Suitable for centre-opening and side-opening doors

Technical Specifications

Parameter	Value
Mounting height	1.8-2.8m . Transmitter frequency: 24.150 GHz . Transmitter power density: <5mW/cm ² . Minimum detection range (from door face) 200mm to 500mm . Detection width 1.4m side opening and 1.8m centre opening . Detection mode Motion: Min detection speed 20 cm/s . Operating distance: With door separations > 30cm (adjustable on Panachrome+)
Detector Dimensions	43mm x 16mm x 2005mm / 10mm x 33mm x 2000mm Number of Diodes: 48 Number of Beams: 234 Ext. Cables: 015 455 Length 4m Detector monitoring height (min): 20mm Detector monitoring height (max): 1800mm Range: - 2D 6m Maximum voltage in Detector: 12VDC Maximum power consumption: 6W Operating temperature range: -10°C to +65°C EMC Compliance Emissions to EN: 12015:2014 Ingress Rating: IP65 Light Immunity Rating: >100,000lux
Controller dimensions	239mm x 172mm x 51mm Voltage requirements: Universal AC supply 85 to 240VAC or 15 to 48VDC Power consumption: 30W maximum with detectors fitted and indicators ON Door operator relay: 250V AC, 24V DC at 5A Trigger Duration: 350mS typical 2D, 1 second typical 3D Timeout: Switched ON/OFF 10-70 seconds adjustable

Information

Item	Description
SMART-3DS-S-01-000	Smart 3D, Surface Mount, Stainless Colour . G2540 000: Set of 2D TX, RX Detectors and Fixing Kit 43mm G2510 000: Set of 2D TX, RX Detectors and Fixing Kit 10mm G2510 803: Clamp kit to fit one detector G3851 000-NA: Panachrome+ Controller 015 455: 4m extension cable to fit one detector

Files and Resources

Datasheets

[MEMCO Smart 3D Datasheet V03 \(GB\)](#)



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Related products



Lift Light Curtains Panachrome Plus

The MEMCO Panachrome+ lift cu...



Lift Light Curtains Pana 40+

Overview

The MEMCO Pana 40+ is our bestselling lift light curtain. Suitable for any installation, due to the range of available profiles. The exceptional quality, reliability, and durability make it perfect for high-risk and high-traffic applications.

Benefits

- 194 criss-cross beams offer protection to a height of 1.8m
- 2D and 3D detection models available
- 3D extended operating range further increases safety
- Suitable for centre-opening and side-opening doors
- External controller for quick setup and configuration
- Multiple profiles and fixing kits suitable for any installation
- Self-drilling screw for fast, easy fixing
- 2D Light immunity to over 100,000 lux

Technical Specifications

Product 740 040 Standard

Parameter	Value
Detector Size	43mm x 63mm x 2100mm
Detector Cable Length	750mm + 4m Extension Cables
Diode Spacing	45.7mm
Detector Range	6m
Number of Diodes Per Detector	40
Number of Beams Per Detector	40 Beams with Pana40+ Controller / 194 Beams with Pana194+ Controller
EMC Compliance	Emissions to EN12015:2004, Immunity to EN12016:2004
IP Rating	IP54 as per EN60529:1991
Vibration	20-500Hz rms 4hrs 3 axis BS2011 Pt.2.2 Fd

741 000 Slimline

Parameter	Value
Detector Size	15.5mm x 35mm x 2000mm
Detector Cable Length	750mm + 4m Extension Cables
Diode Spacing	45.7mm
Detector Range	6m
Number of Diodes Per Detector	40
Number of Beams Per Detector	40 Beams with Pana40+ Controller / 194 Beams with Pana194+ Controller
EMC Compliance	Emissions to EN12015:2004, Immunity to EN12016:2004
IP Rating	IP54 as per EN60529:1991
Vibration	20-500Hz rms 4hrs 3 axis BS2011 Pt.2.2 Fd

743 000 Ultra Slim

Parameter	Value
Detector Size	9mm x 37.3mm x 2008mm
Detector Cable Length	750mm + 4m Extension Cables
Diode Spacing	45.7mm

Detector Range	6m
Number of Diodes Per Detector	40
Number of Beams Per Detector	40 Beams with Pana40+ Controller / 194 Beams with Pana194+ Controller
EMC Compliance	Emissions to EN12015:2004, Immunity to EN12016:2004
IP Rating	IP54 as per EN60529:1991
Vibration	20-500Hz rms 4hrs 3 axis BS2011 Pt.2.2 Fd

744 010 Leading Edge

Parameter	Value
Detector Size	40mm x 10.7mm x 2100mm
Detector Cable Length	1880mm + 4m Extension Cables
Diode Spacing	45.7mm
Detector Range	6m
Number of Diodes Per Detector	40
Number of Beams Per Detector	40 Beams with Pana40+ Controller / 194 Beams with Pana194+ Controller
EMC Compliance	Emissions to EN12015:2004, Immunity to EN12016:2004
IP Rating	IP54 as per EN60529:1991
Vibration	20-500Hz rms 4hrs 3 axis BS2011 Pt.2.2 Fd

744 040 Slampost

Parameter	Value
Detector Size	40mm x 10.7mm x 2000mm
Detector Cable Length	1880mm + 4m Extension Cables
Diode Spacing	-
Detector Range	6m
Number of Diodes Per Detector	40
Number of Beams Per Detector	40 Beams with Pana40+ Controller / 194 Beams with Pana194+ Controller
EMC Compliance	Emissions to EN12015:2004, Immunity to EN12016:2004
IP Rating	IP54 as per EN60529:1991
Vibration	20-500Hz rms 4hrs 3 axis BS2011 Pt.2.2 Fd

Technical Specifications

Product 770 040

Parameter	Value
Detector Size	43.5mm x 62.5mm x 2100mm
Detector Cable Length	725mm + 4m Extension
770 Detector Depth	with rigid guard 3mm 63 mm
2D Distance Between Bottom Beam & Bottom of Housing	20mm For 2D Light Curtain
2D Distance Between Top Beam & Bottom of Housing	1800mm 2D For Light Curtain
Maximum Range on 2D	6m
Maximum Range on 3D	Approx. 600mm from centre of doorway when doors are at 1200mm apart (Fig 3)
Number of Diodes Per Detector	40
Number of Beams Per Detector	r 40 Beams with Pana40+ Controller / 194 Beams with Pana194+ Controller

Product 771 000

Parameter	Value
Detector Size	15.5mm x 33.5mm x 2000m
Detector Cable Length	665mm + 4m Extension Cables
2D Distance Between Bottom Beam & Bottom of Housing	17mm For 2D Light Curtain
2D Distance Between Top Beam & Bottom of Housing	1800mm 2D For Light Curtain
Maximum Range on 2D	5.5m
Maximum Range on 3D	Approx. 600mm from centre of doorway when doors are at 1200mm apart (Fig 3)
Number of Diodes Per Detector	40
Number of Beams Per Detector	r 40 Beams with Pana40+ Controller / 194 Beams with Pana194+ Controller

Product 774 000

Parameter	Value
Detector Size	9mm x 37.3mm x 2008mm
Detector Cable Length	750mm + 4m Extension
2D Distance Between Bottom Beam & Bottom of Housing	20mm For 2D Light Curtain
2D Distance Between Top Beam & Bottom of Housing	1808mm 2D For Light Curtain
Maximum Range on 2D	5m
Maximum Range on 3D	Approx. 600mm from centre of doorway when doors are at 1200mm apart (Fig 3)
Number of Diodes Per Detector	40
Number of Beams Per Detector	r 40 Beams with Pana40+ Controller / 194 Beams with Pana194+ Controller

Information

2D 74X Part Numbers and Description

Item	Description
740 040 – Universal	2x Fixing Kits for Standard Installations & 2x Fixing Kits for Leading Edge Installations
741 000 Slimline Detectors	2x Fixing Kits
743 000 Ultraslim Detectors	2x Fixing Kits
744 020 Mixed Slampost	1x Fixing Kit for Standard Installation 1x Fixing Kit for Slampost Installation
744 010 Leading Edge Detectors	2x Fixing Kits for Leading Edge Installations
744 040 Slampost Detectors	2x Fixing Kits for Slampost Installations

3D 77X Part Numbers & Description

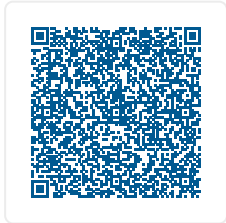
Item	Description
770 040 – Universal	2x Fixing Kits for Standard Installations & 2x Fixing Kits for Leading Edge Installations
771 000 – Slimline	Detectors 2x Fixing Kits
774 000 – Ultra	Slim Detectors 2x Fixing Kits

Spares & Accessories Part Numbers

015 199 4m Extension Cable
743 803 Ultraslim clamps (the fixing kit is per one side of the detector set)

Files and Resources

Datasheets	Pana40Plus Datasheet V09 (GB)
Install Guides	Pana40 Installation Guide V01 ML
	Pana40 2in1 -3in1 Installation Guide V01 ML
	Pana40Controller Installation Guide V01 GB
	Pana40Controller Installation Guide V01 FR
	Pana40Controller Installation Guide V01 ES



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Lift Light Curtains Panachrome Plus
The MEMCO Panachrome+ lift cu...



Lift Light Curtains Panachrome
The MEMCO Panachrome lift dete...



Lift Light Curtains Smart 3D
The MEMCO Smart 3D lift detector...



Lift Light Curtains E-Series
The E-Series Lift Light Curtains is ...



Lift Light Curtains E-Series

Overview

The E-Series Lift Light Curtains is our entry-level lift door detector that fulfills all basic compliance requirements. It is easily and quickly integrated into door leading edges of existing or new lifts to prevent passenger accidents and door damage.

Benefits

- 174 criss-cross beams
- Designed for new & existing installations
- Suitable for dynamic or static installations
- Reduced installation time
- No setting up required
- No communication wire
- No configuration needed
- Extended range of input voltages 11 - 42VDC to suit all applications
- Robust Electronics
- Timeout Software Diagnostic
- LEDs Diagnostic output

Technical Specifications

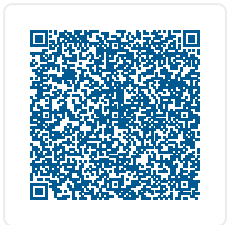
Parameter	Value
External Dimensions	10mm x 33.5mm x 2005mm (E10) / 32mm x 16mm x 2105mm (E32) / 40mm x 19mm x 2105mm (E40)
No. of Diodes	36
Total No. of Beams at a separation	of 174 Beams >500mm / 106 Beams<500mm &>200mm / 36 Beams <200mm
Top Diode position from sill*	1633mm
Bottom Diode position from sill*	25mm
IP Rating	IP65 (E10), IP54 (E32), IP54 (E40)
Maximum Range	3m Max.
Response Time	100ms
Light Immunity	>100,000 lux
Input Voltage	+11VDC - +42VDC Continuous 44VDC [Max] Peak
Trigger Output	Maximum Switching Voltage=45VDC/30VAC / Maximum Switching Current=350 mA / Maximum on State Resistance=2 Ohms / NPN,PNP,NC,NO user configurable
Diagnostic Output	(optional) Maximum Switching Voltage=45VDC/30VAC / Maximum Switching Current=350 mA / Maximum on State Resistance=2 Ohms / NPN,PNP user configurable; NC only
Current Average	<100mA
Peak Current	<100mA
Operating Temp. Range	-10°C - 60°C as per BS2011 Part2.1 Ab & Part2.2 Bb
Storage Temperature	-25°C to 60°C
EMC Emissions	EN12015:2014 Immunity 12016:2013
Random Vibration	20-500Hz 0.002g ² /Hz, 4 hours per axis
Sinusoidal Vibration	30Hz 3.6g RMS 30mins per axis
Humidity	93% BS60068-2-30:2005:Part2.1Db:1981, Variant2 @ 55°C
Cables	TX=2 Cores & RX= 5 Cores (7 Cores with diagnostic output), Length=2.7

Information

Item	Description
E10 894	Set of E10 Extension cables E10 802 Static kit, aluminium support bracket E10 803: Clamp plate kit (per detector

Files and Resources

Datasheets	E-Series EN81-20 Datasheet V11 (GB)
Install Guides	E10 Installation Guide V03 ML



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