GULF ALARM

GA
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FIRE ALARM SYSTEMS PRODUCT CATALOGUE

GULF ALARM UK LTD

www.gulfalarm.com

About Us

GULF ALARM is the industry leading fire alarm system manufactured using advanced UK technology. Our products are designed to meet the latest market requirement through continuous research and development process.

GULF ALARM is a progressive and reliable organization, providing superior fire detection and suppression solutions with outstanding customer support.

GULF ALARM is committed to providing our customers with the highest quality, cost-effective products, solutions and excellent customer service, while focusing on our customers, strategic partners, employees and state of the art technologies.

Our network of authorized agents are fully trained on the usage of our products and ensure to provide a reliable and friendly service to our clients.

ADDRESSABLE FIRE ALARM SYSTEM

CE   LPCB

GA7004
Intelligent Addressable Fire Alarm Control Panel

Overview

The GA7004 Intelligent addressable fire alarm systems, which are often used in large and medium-sized projects and intelligent buildings, can indicate in detail where the fire occurred. GA7004 Intelligent Addressable Fire Alarm Control Panel comprises of a range of analogue addressable, microprocessor-based fire alarm control equipment to offer flexibility in both design and operation. The System is a modular concept for easy tailoring of system design, to meet full requirements of the project. The GA7004 is designed to provide early warning fire detection, to quickly identify the location of fire and provide user definable text informing the occupants of the building of potential smoke spread. Simultaneously, the GA7004 will alert and evacuate the occupants, and control all necessary auxiliary command functions such as elevator control, air handling shut down, gas shut off & damper control, as per the cause and effects requirements. Configured through Command Builder Set-up.

Features and Benefits

- Comply with BS EN54-2,4
- LPCB Approved
- Using advance microprocessor technology with large memory capacity
- Enhance user interface combining LCD Touch screen and keypad access.
- Support real time visual algorithm.
- Enhance false alarm prevention.
- Provided with Keypad and PC programming.
- Built-in Multiple interface protocol such as USB/Ethernet/CanBus/ Serial/RS485 (Available only in GA7004/4 Panel)
- Support Loop Powered devices for extra saving on cable cost
- Built-In Printer and 160 LED Zones Indicators

System Capacity

- Maximum 4 loops in network application built-in 4-in-1 Communication card
- Maximum 6 loops on standalone basis.
- Support 254 Devices (1,524 ideal)
- Network up to 512 Node
- Programmable Capacity
- Zones up to 3000
- Sounders Groups 1-1000
- Modules Groups 1001- 2000
- Built-in 160 LED Zones Indicator

Commissioning Advantage

- Auto Enrolling of Devices
- Loop Mapping with color coding status
- Monitor device mismatch and dual address conflict.
- Command Builder to create requirements for fire event scenario.
- With Loop protection against power surge
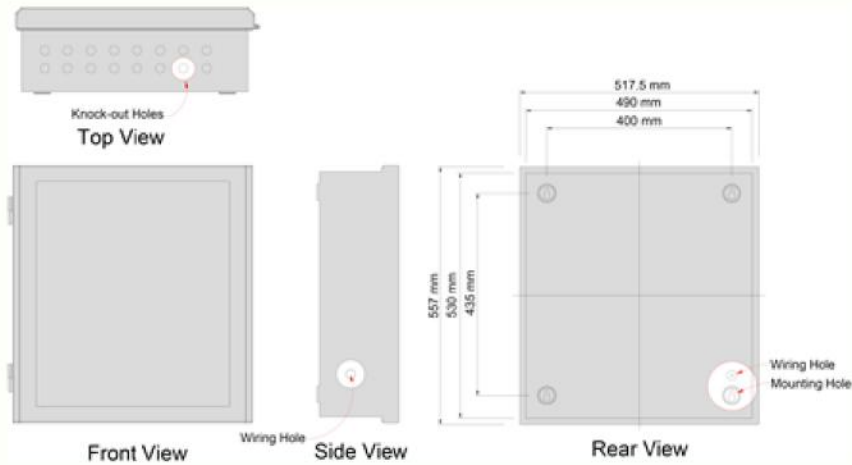- One-man test with On/Off sounder Programming Protection

Technical Specification

Approval	LPCB / CE-CPR
Compliance Standards	BS EN54-2:1997+A1:2006, BS EN54-4:1997+A1:2002+ A2:2006
Power Rating	
Input Voltage	240V AC +10%-15%, 50/60Hz
Input Current Consumption	1A
PSU Output to CIE	24.5 to 28.5V DC
Batteries	2 x 12V / 24Ah
Networking and Interfaces	
Panel to panel communication	Can Bus (loop)
Number of Panels	512
Interface Card	USB, RS485 Serial, RS232 Serial, Ethernet
System Capacity	
Memory [Non-Volatile]	1000 Fire Events, 10,000 General Event
Zones	3,000 programmable
Total Group	3,000 programmable
Sounder Group	1,000 programmable
Common Group	2,000 programmable

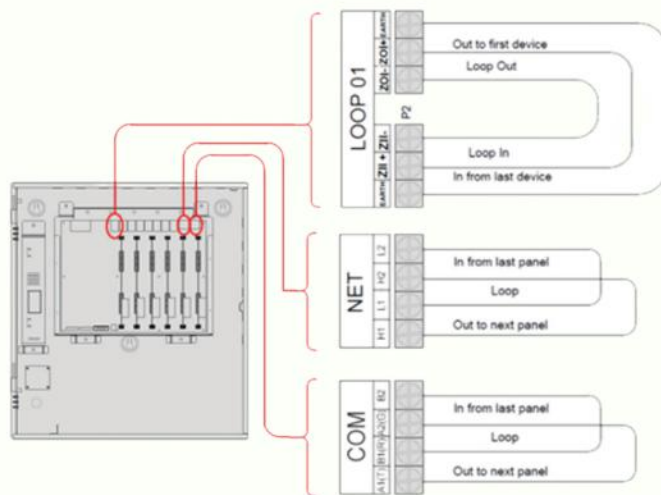| Loop Specifications	
Protocol/ Addressing	GULF, Value ranges from 1 to 254
No. of Loop	4 Loop
Protection	Built-in 4kV Surge protection
Power rating	16 to 24V DC
Cabling	1.2Km Max Length/2 x 1.5mm^2 solid core Fire resistance
Input/outputs	
Programmable Relays	4 circuits. Normally Open/Close
Programmable Input	1 Circuit: Power limited 24V DC (for future use)
Programmable Auxiliary Power	19 to 28V DC (Note: Current Limited)
Fixed Outputs (FPE/Sounder)	2 Circuits: 18 to 28V DC (Note: Current Limited)
Indicator	24 LED Status/ 160 Zone Indicators
Display	7" TFT Touch Screen
Keypad	5 Brigade buttons and Programming Keypad
Material/ Color	Flat sheet Metal / with outer glass door, Orange stripe
Dimension L x W x H	530 mm x 490 mm x 135 mm
Weight	16.70 Kg
Humidity	0 to 95% Relative Humidity, Non condensing
Operating Temperature	-5°C to +50°C

Ordering Information

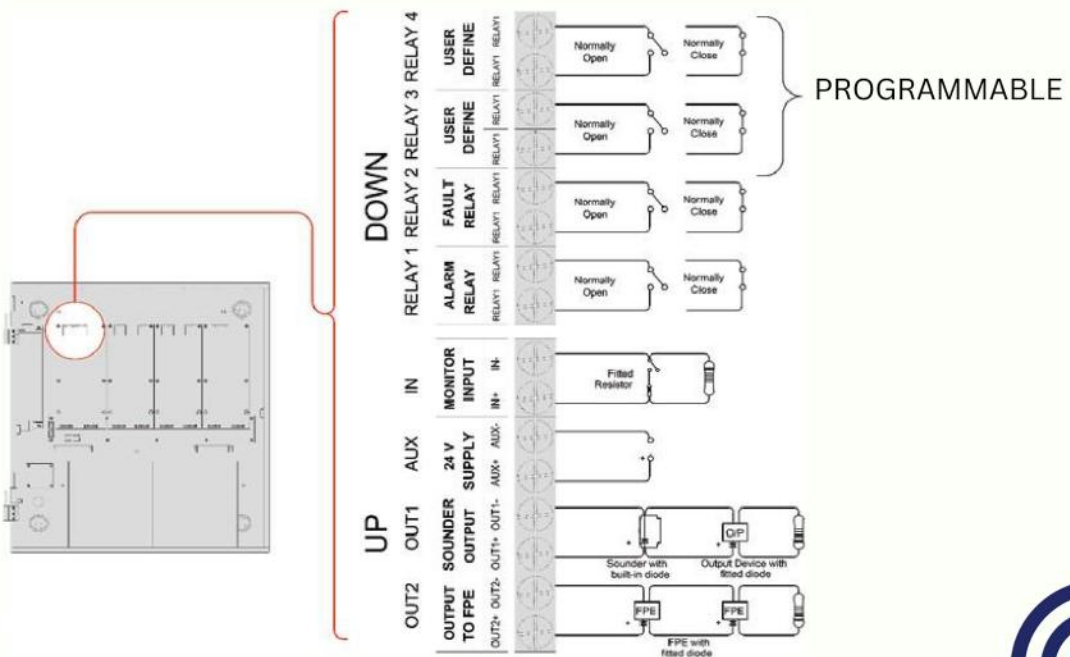|	
GA7004/1	1 Loop LPCB Approved .7" LCD display touch screen, fitted with 1x Single Loop Card, basic configuration up to 254 Addressable Devices, expandable to 6-loop by adding loop card. Optional 4-in-1 Communication Card
GA7004/2	2 Loop LPCB Approved ,7" LCD display touch screen, fitted with 1x Dual Loop Card, basic configuration up to 508 Addressable Devices, expandable to 6-loop by adding loop card. Built-in Glass Door and Printer Optional. Optional 4-in-1 Communication Card
GA7004	4 Loop LPCB Approved .7" LCD display touch screen, fitted with 2x Dual Loop Card, basic configuration up to 1016 Addressable Devices, expandable to 6-loop by adding loop card. Built-in Glass Door and Printer Optional. Built-in 4-in-1 Communication Card

CABINET DETAILS

Knock-out Holes
Top View

Front View

Wiring Hole
Side View

517.5 mm
490 mm
400 mm

557 mm
530 mm
435 mm

Wiring Hole
Mounting Hole

Rear View

LOOP AND NETWORK WIRING DETAILS

LOOP 01

Out to first device
Loop Out
Loop In
In from last device

NET

In from last panel
Loop
Out to next panel

COM

In from last panel
Loop
Out to next panel

COMMUNICATION CARD
INSTALLED INSIDE THE PANEL
(Available only in GA7004)

INPUT/ OUTPUT WIRING DETAILS

DOWN

RELAY 1 RELAY 2 RELAY 3 RELAY 4

ALARM RELAY | FAULT RELAY | USER DEFINE | USER DEFINE

Normally Open | Normally Close

PROGRAMMABLE

UP

MONITOR INPUT — IN
Fitted Resistor

AUX — 24 V SUPPLY

OUT1 — SOUNDER OUTPUT
Sounder with built-in diode | Output Device with fitted diode | Q/P

OUT2 — OUTPUT TO FPE
FPE | FPE
FPE with fitted diode

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GA7100
Intelligent Addressable Optical Smoke Detector

Overview

The GA7100 Intelligent Photoelectric Smoke Detector is an intelligent device that uses an optical photoelectric sensing chamber to detect smoke, which is the ideal device for most applications, due to its spitting linear response by wide variety of different types of smoke patterns. An addressable fire alarm system is one in which all fire and smoke detection devices in a system are connected and communicate both with each other and a central control monitoring location. Interconnectivity allows the control personnel to identify the location or "address" where the initial detection occurred. The unit is aesthetically pleasing with seamless design that will complement modern building designs. The unit included an intelligent processor that provides Algorithm map, inbuilt A/D converter, Drift compensation, and Self-Diagnosis and History log.

Secure and speedy communication through the on-board processor enables the detector to make its own decision, resulting in greater automation. In the event of fire, the integral microprocessor analyses the signal according to factors such as signal strength and rate of increase, then confirms these patterns with the pre-programmed fire scenarios and smoke patterns, for a faster and safer response. Once it is confirmed, the LED indicates the sensor status and parallel sending communication signal to the control panel. The GA7100 detector is compatible to the GA7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture, to avoid addressable communication compatibility problem.
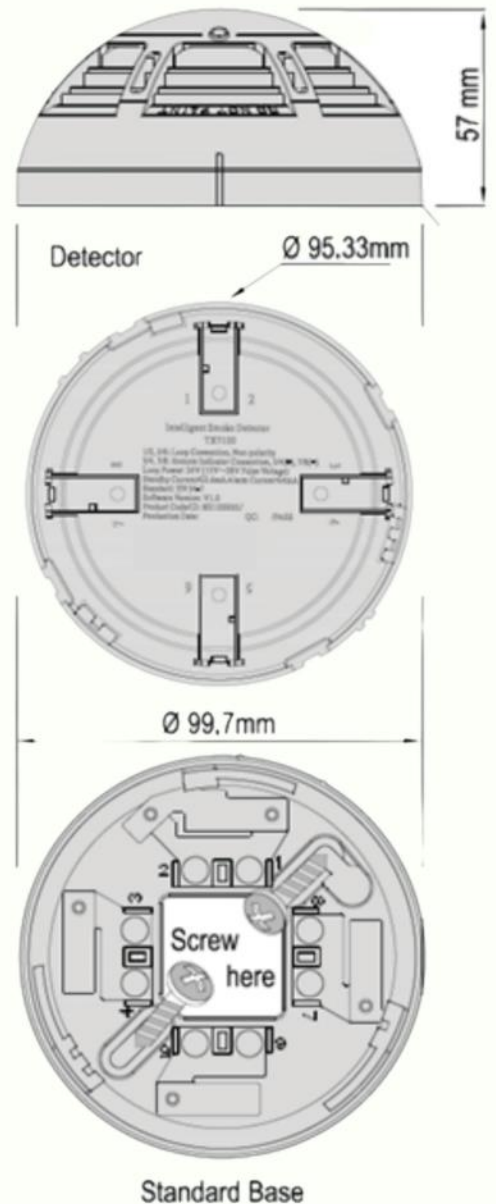
Features and Benefits

- EN54-7:2018
- LPCB Approved
- Using microprocessor technology with memory capacity up to 10 events
- Analogue sending and digital addressing
- Provide real time algorithm to the control panel
- Smart linear drift compensation
- Onsite adjustable parameter
- 360-degree visual indicator
- Removable chamber against dust and small insect
- Ancillary remote indicator output Aesthetically pleasing design
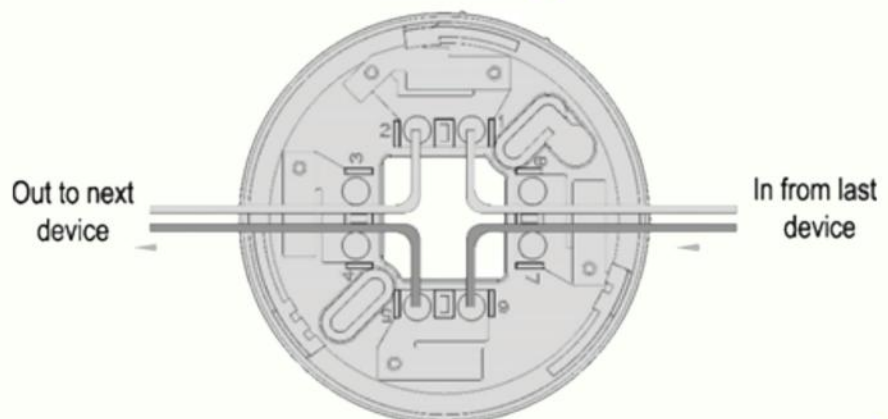
Technical Specification

Approvals	LPCB / CE-CPR
Compliance Standard	EN54-7:2018
Power Rating	
Input Voltage	24V DC [16V to 28V]
Current Consumption	Standby 0.6mA, Alarm: 4mA
Detector	
Protocol/ Addressing	GULF, Value range from 1 to 254
Sensitivity	As per stipulated standard
Indicator	Single LED / 360-degree Visual
Material / Colour	ABS / White Glossy finish1ng
Dimension / Height	Diameter 99.7 mm / 57 mm
Weight	145g (with Base), 90g (without Base)
Operating Temperature	-10°C to +50°C
Humidity	0 to 95% Relative Humidity, Non condensing

Detector

Ø 95.33mm

Ø 99.7mm

Standard Base

Terminal Description

1. Signal In (+)
2. Signal Out (+)
3. Remote Indicator (+)
4. Remote Indicator (+)
5. Signal Out (-)
6. Signal In (-)
7. Remote Indicator (-)
8. Remote Indicator (-)

Detector and Wiring Details

Out to next device

In from last device

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GA7980
Detector Base

Overview

The GA7980 manufactured based on the requirement of EN Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs and used to mount intelligent GA7100 smoke detector and GA7110 heat detector. The GA7980 base is compatible to the GA7004 Analogue Intelligent Fire Alarm Control Panel.

Features and Benefits

- LPCB Approved
- Aesthetically pleasing design Surface mounting installation

Device and Wiring Details

Terminal Description

1. Signal In (+)
2. Signal Out (+)
3. Remote Indicator (+)
4. Remote Indicator (+)
5. Signal Out (-)
6. Signal In (-)
7. Remote Indicator (-)
8. Remote Indicator (-)

Approval	LPCB / CE-CPR
Input Voltage	24V DC [16V to 28V]
Current Consumption	0µA
Material	ABS
Dimensions/ Height	100mm/ 15mm
Weight	50g
Ingress Protection	IP30
Operating Temperature	-10°C to +50°C
Humidity	0 to 95% Relative Humidity, Non condensing

GA7110
Intelligent Dual Heat Detector

Overview

The GA7110 Intelligent Dual heat Detector combines both Fixed Temperature and Rate of Rise Heat Detection which is reliable for application in places where may have high dust level or smoky environments, making a normal smoke detector undesirable. The unit manufactured based on the sensitivity requirement of EN 54 part 5. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs. The unit incorporates an intelligent processor that provides an inbuilt AID converter, and Self-Diagnosis and History log. In the event of fire, the integral microprocessor analyses the signal according to factors such as signal strength and rate of increase, then confirms these patterns with the pre-programmed fire scenarios, heat patterns including rate of rise temperature patterns, for a faster and safer response. Once it is confirmed, the LED indicates the sensor status and parallel sending communication signal to the control panel. The GA7110 detector is compatible to the GA 7004 Analogue Intelligent Fire Alarm Control Panel.
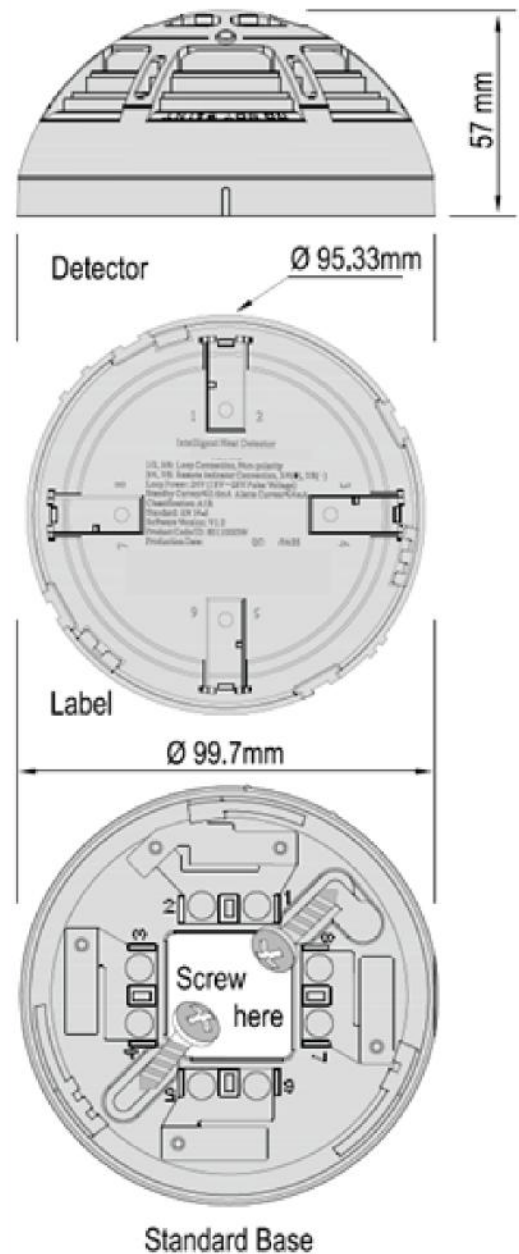
Features and Benefits

- Comply with EN54-5:2017 + A1:2018 LPCB Approved
- Using microprocessor technology with memory capacity up to 10 events
- Analogue sensor and digital addressing
- Provide real time algorithm to the control panel.
- 360-degree visual indicator
- Onsite Adjustable Parameter
- Ancillary remote indicator output
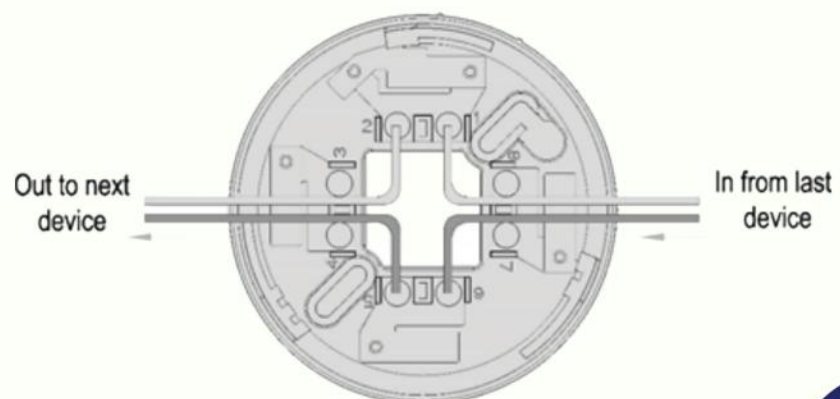- Aesthetically pleasing design

Technical Specification

Approval	LPCB / CE-CPR
Standard Compliance	EN54-5:2017 + A1:2018
Power Rating	
Input Voltage	24V DC [16V to 28V]
Current Consumption	Standby 0.6mA, Alarm: 4mA
Detector	
Protocol/ Addressing	GULF, Value range from 1 to 254
Heat Class Type	A1R
Indicator	Single LED / 360-degree Visual
Material / Color	ABS / White Glossy finishing
Dimension / Height	Diameter 99.7 mm / 57 mm
Weight	127g (with Base), 72g (without Base)
Operating Temperature	-10°C to +50°C
Humidity	0 to 95% Relative Humidity, Non condensing

Detector

Ø 95.33mm

Label

Ø 99.7mm

Screw here

Standard Base

57 mm

Terminal Description

1. Signal In (+)
2. Signal Out (+)
3. Remote Indicator (+)
4. Remote Indicator (+)
5. Signal Out (-)
6. Signal In (-)
7. Remote Indicator (-)
8. Remote Indicator (-)

Detector and Wiring Details

Out to next device

In from last device

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GA7140
Addressable Manual Call Point

Technical Specification

Approval	LPCB / CE-CPR
Compliance	EN 54-11:2001 + A1:2005
Power Rating	
Input Voltage	24V DC [16V to 28V]
Current Consumption Standby	0.6mA, Alarm: 1.8mA
Call Point	
Protocol/ Addressing	GULF, Value range from 1 to 254
Indicator	Single LED / Steady On-when pressed
Material / Color	Fireproof ABS / RED Glossy finishing
Dimension	89mm × 93mm × 35mm
Weight	102g (with Base), 80g (without Base)
Class	Type A, indoors
Operating Temperature	-10°C to +55°C
Humidity	0 to 95% Relative Humidity, Non condensing

Overview

The GA7140 Addressable Manual Call point allows occupants to trigger the system from a single location If a fire is discovered before the fire alarm system is activated which use a non-breakable glass which is designed to press under light pressure triggering the call point into an alarm condition, with LED indicator mounted onto the front face to simplify the location of an operated call point. Safe to press and no hammer is required. The protected flap on the lower part is used for resetting through supplied special tool.

In the event of fire, once it is pressed, the LED goes on to indicate the call point status and parallel sending communication signal to the control panel. The GA7140 manual call point is compatible to the GA7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture GULF, to avoid addressable communication compatibility problem.

Features and Benefits

- EN 54-11:2001 + A1:2005
- LPCB Approved
- Using microprocessor technology
- Digital addressing
- Non-breakable glass and hammerless
- Safe to operate and easy to reset.
- Semi-flash Mounted, indoor application.
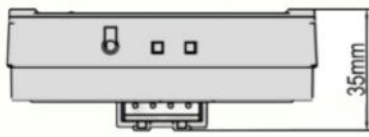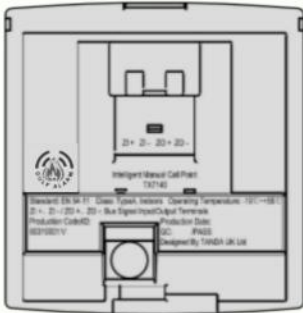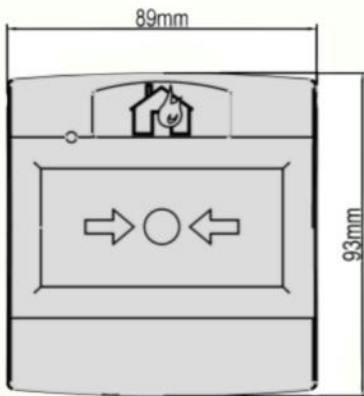- Optional Backbox for Surface mount (GA7140-MB)

Call Point and Wiring Details

Top view

35mm

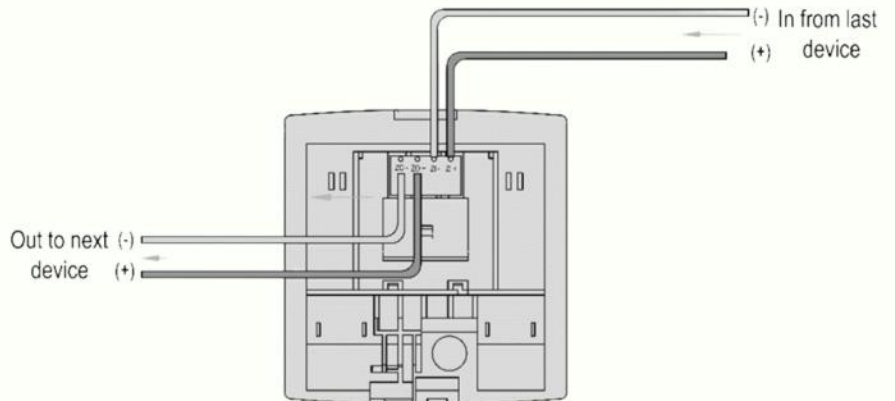Label

89mm

93mm

Call Point

(-) In from last
(+) device

Out to next (-)
device (+)

Terminal Description

ZI Signal In (+)
ZI Signal In (-)
ZO Signal Out (+)
ZO Signal Out (-)

Optional Accessories

GA7140-PFC

Ordering Information

GA7140	LPCB Approved. Resettable non-breaking glass addressable Recessed Mount MCP Certified EN54-11:2001 + A1:2005. Optional Back Box for Surface Mount
GA7140-MB	Optional surface mounting backbox
GA7140-PFC	Protective flip cover
GA7140-PCW	Weatherproof protective cover surface mount

GA7300
Addressable Sounder and Strobe

Overview

The GA7300 Addressable Sounder Strobe is high quality loop powered device designed to alert building occupants of an emergency. The unit adopts multiapplication device starting from the types, parameters, and wiring layout in single unit. The GA7300 can change into different alarm warning types such as sounder-strobe type, sounder type or strobe type using programming tool. In addition, parameters can be configured according to the requirement which include alarm tone from 17 different tones, single address or dual address mode and setting of power mode to low current consumption in a simple programming.

The unit manufactured based on the requirement of EN 54 part 3, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs and its plug-in type assembles make installation and maintenance more convenient to the installer. The unit is compatible to the GA7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture GULF, to avoid addressable communication compatibility problem.
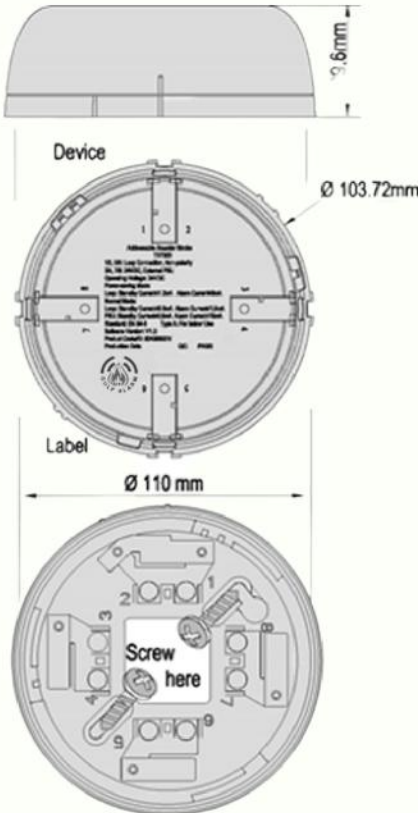
Features and Benefits

- Comply with EN54-3:2001+A1:2002 A2:2006
- Built-in MCU processor and digital addressing
- 17 tones Programmable sound output
- Programmable types such as Sounder-Strobe, Sounder or Strobe alone
- Programmable Evacuate or Pre-alarm/Evacuate signal
- Low and normal consumption mode
- One or Two addresses mode
- 10 Highlights LED status cluster
- Onsite Adjustable Parameters
- Loop or external power input
- Aesthetically pleasing design
- Universal mounting with fix base for simple installation

Technical Specification

Approval	LPCB / CE-CPR	**Address Sequence**	Single Address: Evacuate tone
Standard Compliance	EN54-3:2001+A1:2002 + A2:2006	**Protocol/ Addressing**	GULF, Value range from 1 to 254 dual address 1st Alert / 2nd Evac
Power Rating		**Strobe Light**	10 Highlights LED
Input Voltage	Loop Power: 24V DC [18V to 27.5V]	**Material / Colour**	ABS / RED Glossy finishing
External PSU	24V DC [20V to 27.SV]	**Dimension / Height**	Diameter 110 mm / 39.6 (with Base)
Typical Current	Loop: Standby 0.6mA, Alarm: 1.5mA	**Weight**	176g (with Base), 110g (Without Base)
Loop and External PSU	Standby 0.6mA, Alarm: 15mA	**Class**	IP30
Saving Current	Standby 1.2mA, Alarm: 9mA	**Operating Temperature**	-10°C to +50°C
Sounder Strobe		**Ingress Protection Rating**	IP21
Sounder level Pressure	102 dBA at 1 meter / tone 14	**Humidity**	0 to 95% Relative Humidity, Non-condensing
Tone	17 Tones (refers to Manual)		

Sounder and Wiring Details
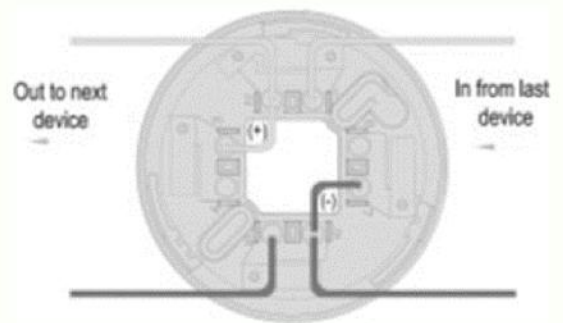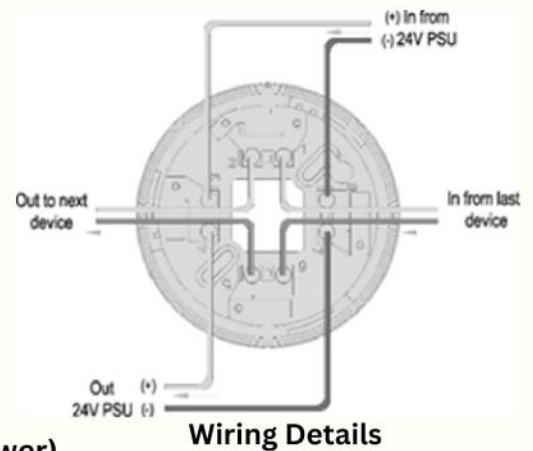

Device
Ø 103.72mm
Ø 110 mm
Label
Screw here

Terminal Description (24VDC)

1. Signal In (+)
2. Signal Out(+)
3. External PSU In (+)
4. External PSU Out(+)
5. Signal In(-)
6. Signal Out(-)
7. External PSU In (-)
8. External PSU Out (-)

Terminal Description (Loop Power)

1. Signal In (+)
2. Signal Out(+)
(Jumper(+) terminal 2 and 3)
5. Signal In(-)
6. Signal Out(-)
(Jumper(-) terminal 6 and 7)

(+) In from
(-) 24V PSU
Out to next device
In from last device
Out (+)
24V PSU (-)

Wiring Details

Out to next device
In from last device

Optional Loop Power Wiring Details

GA7302
Addressable Sounder Base

The GA7302 Addressable Flashing Beacon Base is an alarm warning device used to notify persons in the vicinity of the occurrence fire emergency in order the person to take appropriate measures. The unit adopt multi application device starting from the types, parameters and wiring layout in single unit. The GA7302 Addressable Flashing Beacon Base is powered by the communication bus. The GA7302 can change into different encoding modes such as Single-encoding Mode Mode 1 and Dual-encoding Mode 2 using a programming tool. And it has different starting modes such as started by a detector, a controller or other front-end linkage.

In addition, the alarm tone can be configured according to the requirement from 17 different tones. The unit manufactured based on the requirement of EN 54 part 3, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs and its plugin type assembles make installation and maintenance more convenient to the installer. The unit is compatible to the GA7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture, to avoid addressable communication compatibility problem.

Features and Benefits

- Comply with EN54-3
- Built-in MCU processor and digital addressing
- 17 tones Programmable sound output
- Encoding modes such as Single encoding Mode, Dual-encoding Mode 1 and Dual encoding Mode 2
- Programmable Evacuate or Pre-alarm/Evacuate signal.
- 8 highlights LED status cluster
- Be started directly by a detector.
- Onsite adjustable parameters
- Loop power input
- Aesthetically pleasing design
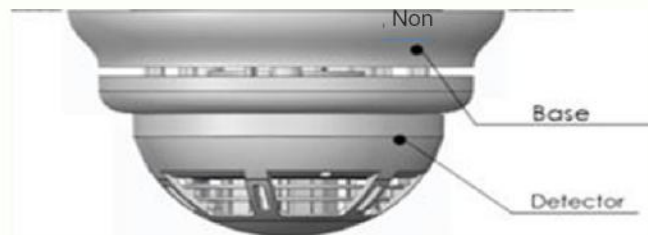- Mounting base using GA7980 (Excluded)

Technical Specification

Approval	LPCB, CE
Standard Compliance	EN54-3
Power Rating	
Input Voltage	Loop Power: 24V DC [16V to 28V]
Current Consumption	Standby: c0.8mA, Alarm: c5mA
Sounder Strobe Base	
Protocol/Addressing	GULF, Value range from 1 to 254
Address Sequence	Single-encoding Mode: Alarm Dual-encoding Mode 1:1st Alarm / 2nd Warning Dual-encoding Mode 2: 1st Warning / 2nd Alarm
Strobe	8 highlights LED
Base	GA7980 Detector Base (Excluded)
Material / Color	ABS / White glossy finishing
Dimension / Height	Diameter 140mm / 59.1mm (with a cover)
Weight	198g (with a cover)/180g (without a cover)
Class	Type A, Indoors
Operating Temperature	-10°C to +55°C
Ingress Protection Rating	IP30
Humidity	0 to 95% Relative Humidity, Non condensing

Sounder and Wiring Details

Terminal Description
1. Signal In (+)
2. Signal Out (+)
3. Remote Indicator (+)
4. Remote Indicator (+)
5. Signal In (-)
6. Signal Out (-)
7. Remote Indicator (-)
8. Remote Indicator (-)

GA7210
Addressable Single Input/Output Module

The GA7210 Addressable Single Input/output Module can communicate with fire alarm control panel (FACP), monitor power supply, control output and indicator with a microprocessor. The module closes the output relay and illuminates the indicator when receiving start command from FACP.

The module is characterized as one input or output volt free relay and control module. The unit is normally used for overriding equipment such as lift return, door holder, smoke extract fans, air handling unit, auto dialer to fire brigade, BMS and etc. The unit has built-in feedback signal feature, according to the pre-configured interface module command fire scenario, the alarm controller send out start command to the equipment required to start. After receiving the command, output module enables its relay to change state. Once the module is under control and operated a confirmation signal will be sending back to the alarm controller. In addition, the unit incorporates an intelligent processor that provides automatic monitoring for both open and short circuit of the input signal line. The unit is compatible to the GA7004 Analogue Intelligent Fire Alarm Control Panel, produced by a single manufacturer to avoid addressable communication compatibility problem.

Features and Benefits

- EN54-18:2005 Compliance
- LPCB Approved
- Built-in MCU processor and digital addressing
- 24Vdc/3A Output relay contact and Control module
- Input Fire or Supervisory signal
- configuration
- LED status indicator
- Onsite Adjustable Parameter
- Loop or external power input
- Aesthetically pleasing design Surface mounting with fix base for simple installation.
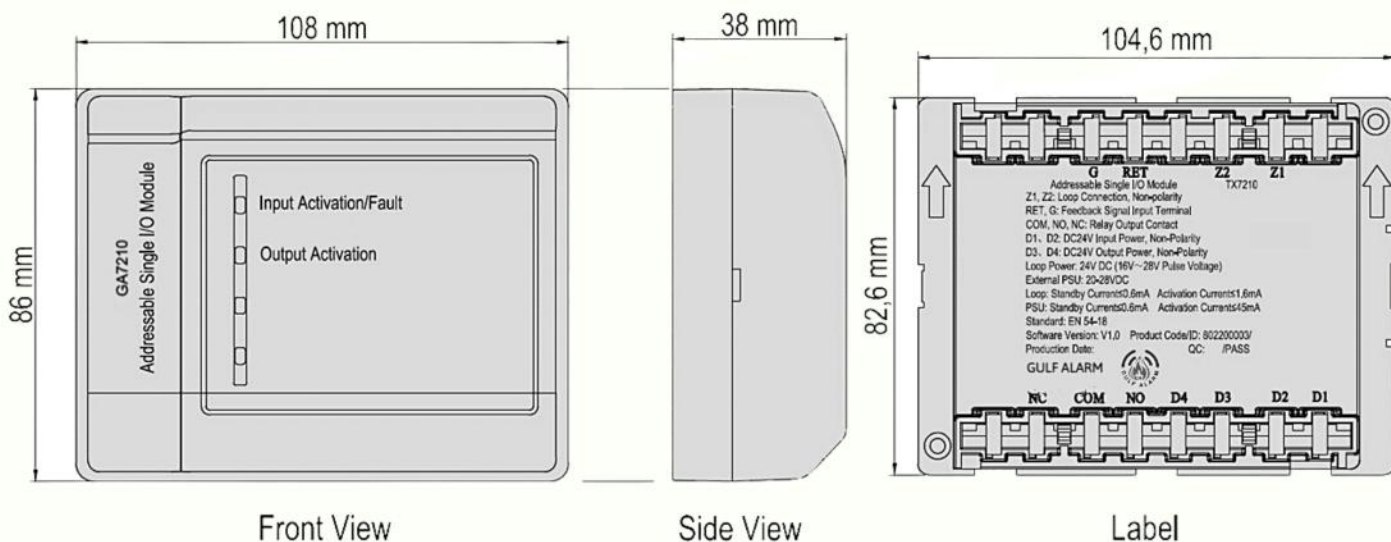
Technical Specification

Approval	LPCB / CE-CPR
Standard Compliance	EN54-18:2005
Power Rating	
Input Voltage	Loop Power:24V DC [16V to 28V]
External PSU	20 to 28V DC
Current Consumption	Loop: Standby 0.6mA, Alarm: 1.6mA
External PSU	Standby 0.6mA, Alarm: 45mA
Control output voltage	24V DC / 2A rating
Module	
24VDC / 2A rating	Normally Open dry contact
Input Resistance	5.1Kohms/ 1/4W

Protocol/ Addressing	GULF, Value range from 1 to 254
Indicator Status	GULF: Single blink/Active: Steady/Fault: Double Blink
Material / Colour	ABS / White Glossy finishing
Dimension / LWH	108 mm x 86 mm x38 mm
Weight	170g (with Base), 92g (without Base)
Operating Temperature	-10°C to +50°C
Ingress Protection Rating	IP30
Humidity	0 to 95% Relative Humidity, Non condensing

Module and Wiring Details

Front View

Side View

Label

Terminal Description

Z1 Signal In (+)

Z1 Signal Out (+)

Z2 Signal In (-)

Z2 Signal Out (-)

RET Input Cable

G   Input Cable

D1 External Power Supply In (+)

D2 External Power Supply In (-)

D3 Not Use

D4 Not Use

COM Output Cable

NO, NC Output Cable
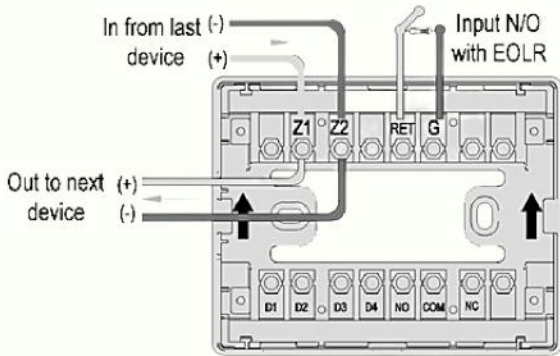
Module and Wiring Details

Figure 1: Input Wiring Details
Note: Change the parameter Input
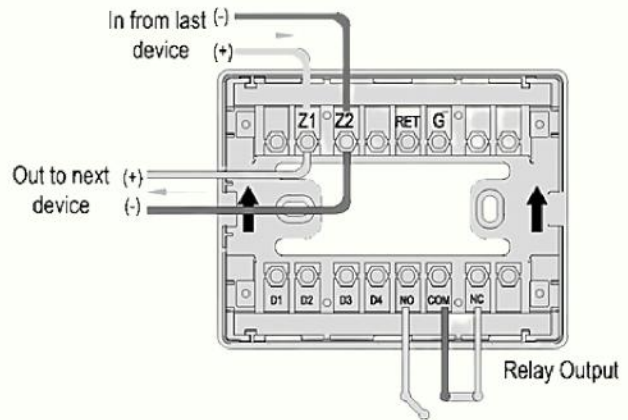Check into 3Y
(Loop Powered)

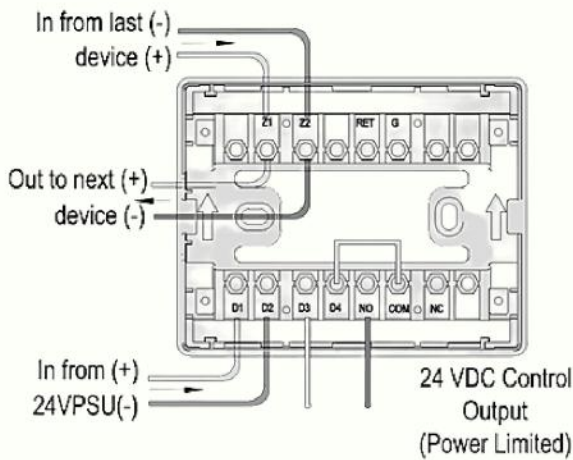Figure 2: Relay Output Wiring Details
(Loop Powered) mostly used

Figure 3: Control Output Wiring
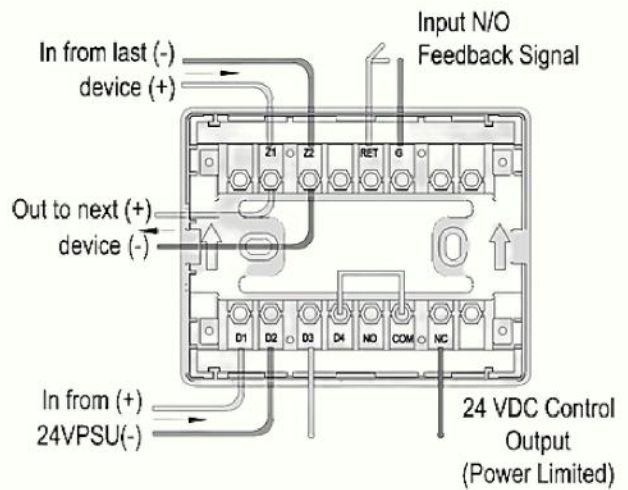Details (Required External Power
Supply)

Figure 4: Control Output With Feedback
Signal Wiring Details
(Required External Power Supply)

GA7230
Isolator Module

Overview

The GA7230 is manufactured based on the requirement of EN 54 part 17, European Standard. The Isolator is placed at intervals on the loop and ensures that, in the case of a short circuit, only the section between the isolators will be affected. When the short circuit is removed, the isolators automatically restore power and data to the isolated section.

The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs and its plug-in type assembles make installation and maintenance more convenient to the installer.The GA7230 IsolatorsModule is compatibleto the GA7004 Analogue Intelligent Fire Alarm Control Panel,produced by single manufacture to avoid addressable communication compatibility problem.
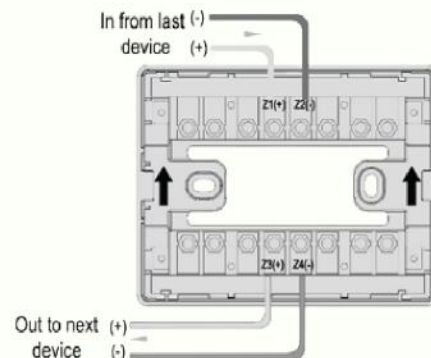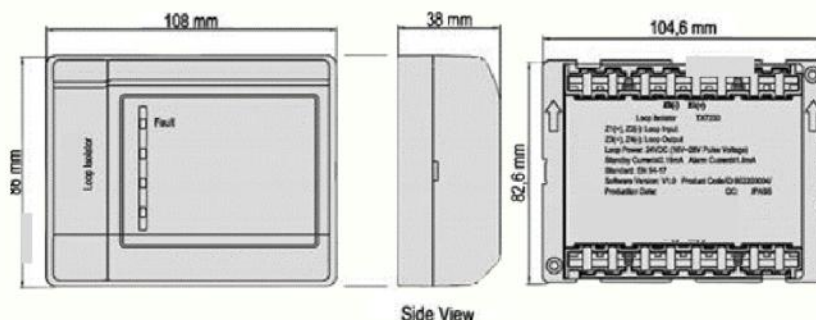
Features and Benefits

- Comply with EN54-17:2005
- LPCB Approved
- In the event of a short circuit isolates faulty parts of the loop.
- Automatically resetting once the fault has been cleared.
- Can monitor up to 70 devices.
- LED status indicator
- Loop powered device
- Aesthetically pleasing design
- Surface mounting with fix base for simple installation

Technical Specification

Approval	LPCB / CE-CPR
Compliance	EN54-17:2005
Power Rating	
Input Voltage	24V DC [16V to 28V]
Current Consumption	Standby 0.15mA, Alarm: 1.8mA
Maximum Open Voltage (VSO MAX)	11V
Minimum Open Voltage (VSO MIN)	8V
Maximum Close Voltage (VSC MAX)	3V
Minimum Close Voltage (VSC MIN)	1.4V
Maximum Continuous Current (IC MAX)	500mA
Maximum Transient Output Current (IS MAX)	5A
Maximum Leakage Current (IL MAX)	2mA
Max closed impedance (ZC MAX)	0.65 ohms
Humidity	0 to 95% Relative Humidity, Noncondensing
Operating Temperature	-10°C to +50°C

Module	
Protocol	GULF
Number of monitored	Max 70 Devices
Output Impedance	480 ohms
Indicator Status	Normal: Single blink/Active: Steady-on
Material / Color	ABS / White Glossy finishing
Dimension / LWH	108 mm x 86 mm x38 mm
Weight	152g (with Base), 81g (without Base)
Ingress Protection	IP30
Humidity	0 to 95% Relative Humidity, Nor condensing

In from last (-) device (+)

Out to next (+) device (-)

Z1(+) Z2(-)

Z3(+) Z4(-)

Terminal Description

Z1 Signal In (+)
Z1 Signal Out (+)
Z2 Signal In (-)
Z2 Signal Out (-)

108 mm

80 mm

Loop Isolator

Fault

38 mm

82.6 mm

Side View

104.6 mm

GA7232
Base Mount Short Circuit Isolator

Overview

The GA7232 manufactured based on the requirement of EN 54 part 17, European Standard. In the event of short circuit on the detection loop the GA7232 Isolators either side of the loop will detect the problem and open circuit and isolates the faulty part of the loop, enabling other devises on the unaffected part of the loop to operate normally. The base mount short circuit isolator will continue to monitor for the fault to be repaired, once the fault is cleared the isolator will automatically reinstate the effected part of the loop.

The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs and used to mount intelligent GA7100 smoke detector,GA7110 heat detector. The GA7232 base mount short circuit isolator is compatible to the GA7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture GULF, to avoid addressable communication compatibility problem.

Features and Benefits

- EN54-17:2005 Compliance
- LPCB Approved
- In the event of a short circuit isolates faulty parts of the loop.
- Automatically resetting once the fault has been cleared.
- Can monitor up to 70 devices.
- LED status indicator
- Loop powered device
- Aesthetically pleasing design Surface mounting installation

Device and Wiring Details

Terminal Description
Z1 + Signal In
Z0 + Signal Out
Z1 - Signal In
Z0 - Signal Out

Technical Specification

Approval	LPCB / CE-CPR
Compliance	EN54-17:2005
Power Rating	
Input Voltage	24V DC (16V to 28V)
Current Consumption	Standby 0.15mA, Alarm: 1.8mA
Maximum Open Voltage (VSO MAX)	11V
Minimum Open Voltage (VSO MIN)	8V
Maximum Close Voltage (VSC MAX)	3V
Minimum Close Voltage (VSC MIN)	1.4V
Maximum Continuous Current (IC MAX)	500mA
Maximum Transient Output Current (IS MAX)	5A
Maximum Leakage Current (IL MAX)	2mA
Max closed impedance (ZC MAX)	0.65 ohms
Module	
Protocol	GULF
Number of monitored	Max 70 Devices
Output Impedance	480 ohms
Indicator Status	Normal: Single blink/Active: Steady-on
Material / Colour	ABS / White Glossy finishing
Dimension / Height	Diameter:100.7 / 35mm
Weight	55g (with Base)
Ingress Protection	IP30
Humidity	0 to 95% Relative Humidity, Non condensing
Operating Temperature	-10°C to +50°C

GA7130
Conventional Reflective Beam Detector

The system comprises of a single unit incorporating an infrared transmitter and receiver. The signal generated in the transmitter element and reflected by the prism back to the receiver element is analyzed for the presence of smoke. GA7130 Conventional Reflective Beam Detector has built in Laser beam pointing and Digital guide display for real user-friendly alignment method. The Laser beam pointing accurately point the exact location where to mount mirror and with additional digital guide display allows to monitor and guide on the actual light intensity between the mirror and detector which cannot be seen by our naked eye making it easier and more convenient in alignment commissioning.

The GA7130 has four adjustable operational ranges of between 8 to 20, 20 to 40, 40 to 70 and 70 to 100 meters beside with three adjust- able sensitivity setting ranges from 2.6dB, 3.8dB and 5.8dB to meet the specific environ- mental requirement. The GA7130 works on the principle of reflective infrared beam obscuration. Used in conjunction with a reflector, it will notify the fire alarm panel when the infrared beam is obscured by smoke.

Features and Benefits

- Comply with EN54-12
- Hassle free alignment, built with digital guide display and laser beam pointing.
- Employ single-ended design through reflective mirror.
- Four ranges wide monitoring from 8-100 meters via encoder
- Three users programing sensitivity
- adjustment
- Built-in microprocessor
- Self-diagnosis function can monitor for internal faults.
- Automatic compensation for factors weakening received signals, such as dust contamination, positional movement, and ageing of the transmitter.
- Fire and Fault interfacing relays
- Attractive and pleasing appearance
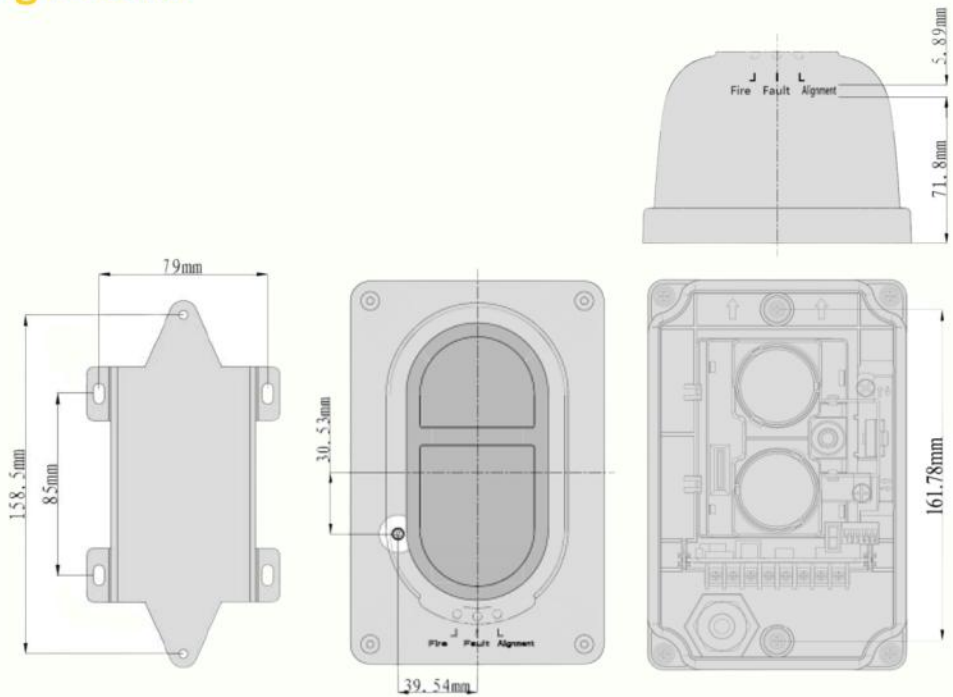- Real User-friendly alignment method
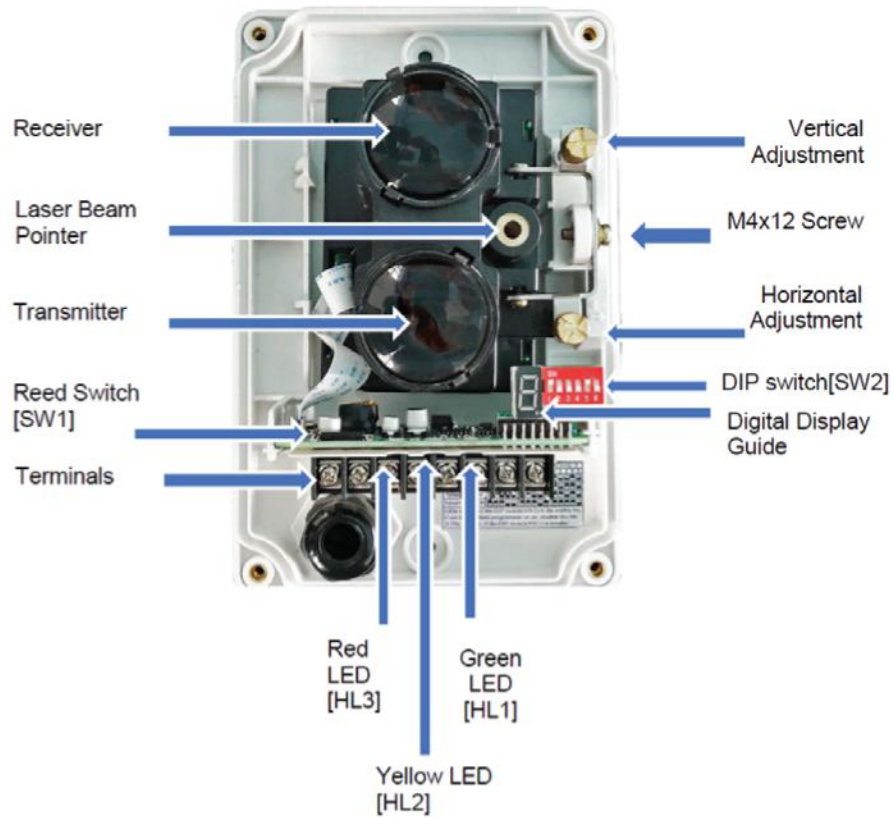
Technical Specification

Part Number	GA7130
Standard	
Approval	LPCB / CE-CPR
Standard Compliance	EN54-12:2015
Fire Detection and Alarm Systems	BS 5839 PART 1:2002
Specification	
Operating Voltage	20V to 28V DC
Current Parameters	Standby:23mA Commission:56mA Alarm:33mA
Beam Sensor Sensitivity (via Encoder)	Level 1: 2.6 dB High Sensitivity Level 2: 3.8 dB Medium Sensitivity Level 3: S.8 dB Low Sensitivity
Beam Pathway Length (via Encoder)	Span 1: 8 to 20 meters Short Path (1x mirror reflector required) Span 2: 20 to 40 meters Short Path (1x mirror reflector required) Span 3: 40 to 70 meters Normal Path (4x mirror reflector required) Span 4: 70 to 100 meters Long Path (4x mirror reflector required)
Beam Path Angle	±0.5° Directional

Alignment Guide	Laser Beam Pointer
Digital Display Guide	Nixie Tube
LED Indicator Guide	Red: Fire; Yellow: Fault; Green: Alignment
Reset Time	Less than 2 Second (Power Cut)
Relay Capacity [Fire & Fault]	Normally Open/ 2.0 A; 30V DC
Physical	
Material / Colour	ABS / White
Dimension / Weight	L:190.87 x W:126.87 x H:91.96 mm / 440 gm
Accessories	Mounting Bracket/ GA7130-R 4 x Mirror Reflector
Environmental	Operating Temperature / Protection Rating -10 C to 55°C / IP30 (IP66 glue seal-For permanent fixing)
Humidity	0 to 95% Relative Humidity, Non condensing

Mounting Details

Names and Locations

Get In Touch

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