



G001766

Manual Call Point IP67

Salwico MCP-C WP

(GB)

Part no. 5200014-01A

System: Salwico Cargo, Salwico Cruise, Salwico Workboat, Salwico Yacht, Salwico RoPax, CS4000, ServoFighter, C300, C303, C308, C316

General Description


The MCP-C is a manual call point for outdoor environment and is designed for the Salwico conventional fire alarm systems.

The selected material PC/ABS and the encapsulation, with ingress protection IP67, makes it very suitable for harsh environment.

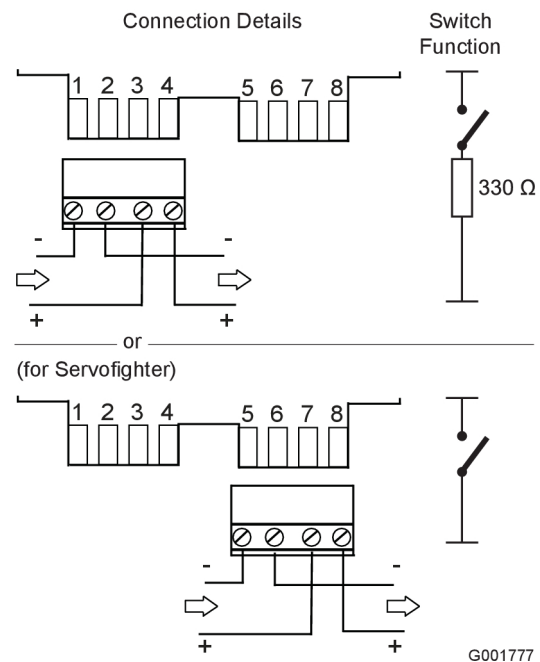
Pressing the glass causing it to crack activates the fire alarm. A protective plastic coating on the glass prevents operator injury.

The call point can be tested with a special key included in the delivery.

Data

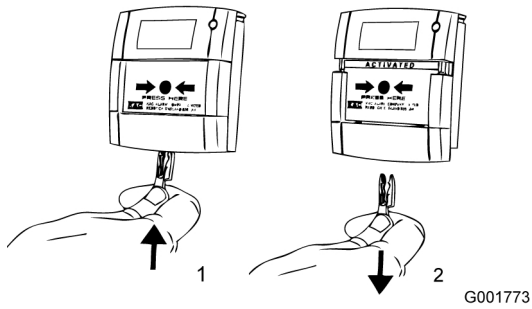
Nominal voltage	24 VDC
Working voltage	16-30 VDC
Supervising current	0 mA
Alarm current	~90 mA
Ingress protection	IP67
Temperature range	-25°C to +70°C
Ambient humidity	0 to 95% RH
Material	PC/ABS
Colour	Red
Weight	240 g
Cable dimension	Ø6-14 mm
Certified according to	 0832
Spare glasses (10pcs.)	Part no. 5200075-00A

Connection

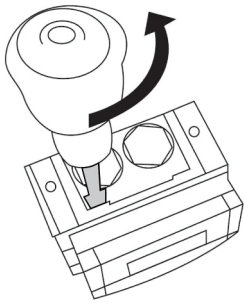


NOTE! After the last section unit, add an **End of line** resistor between terminals 2 and 4 or 6 and 8 (for servofighter) according to system specification.

Test

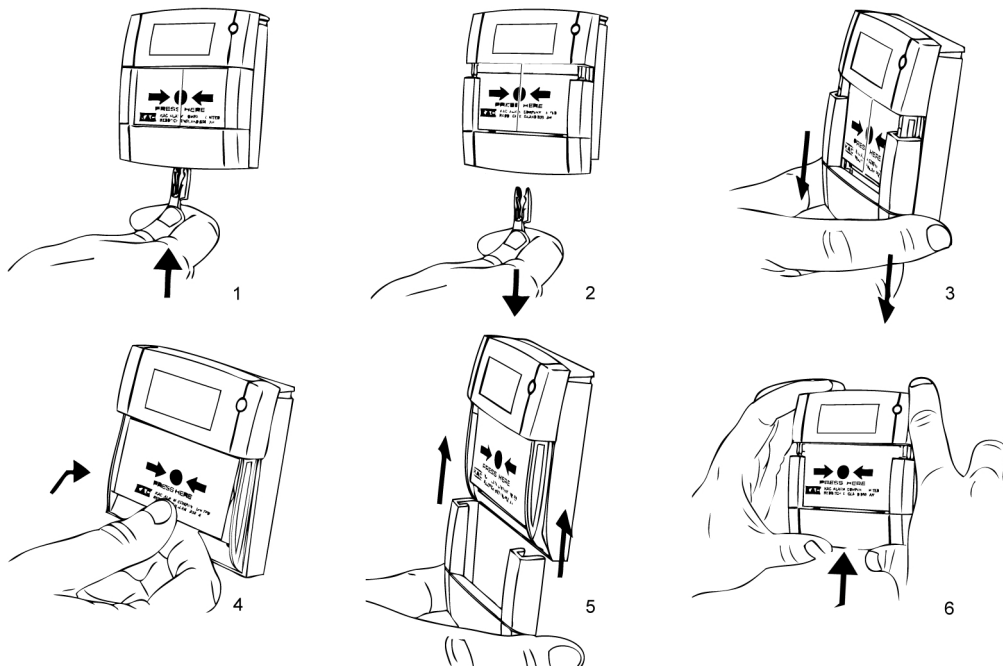


Cover removal

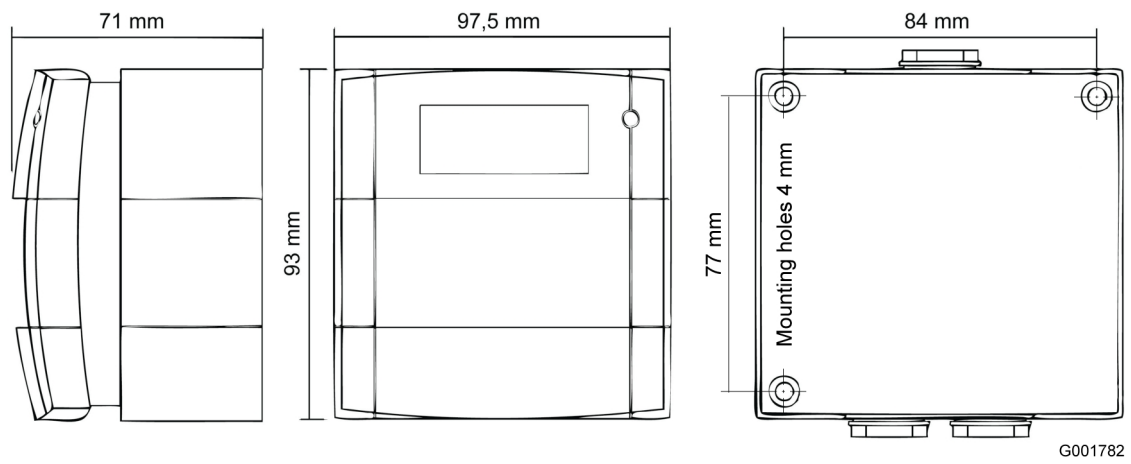


Remove the four cover fixing screws. Place the edge of a large flat bladed screwdriver into the slot between the cover and back box, as shown in picture, and gently twist until the latches are disengaged. Pull cover away from the back box.

Change Glass



Dimensions (mm)





IP55 base

Salwico 2IP55

Part no. 46950

System: All Salwico fire alarm systems

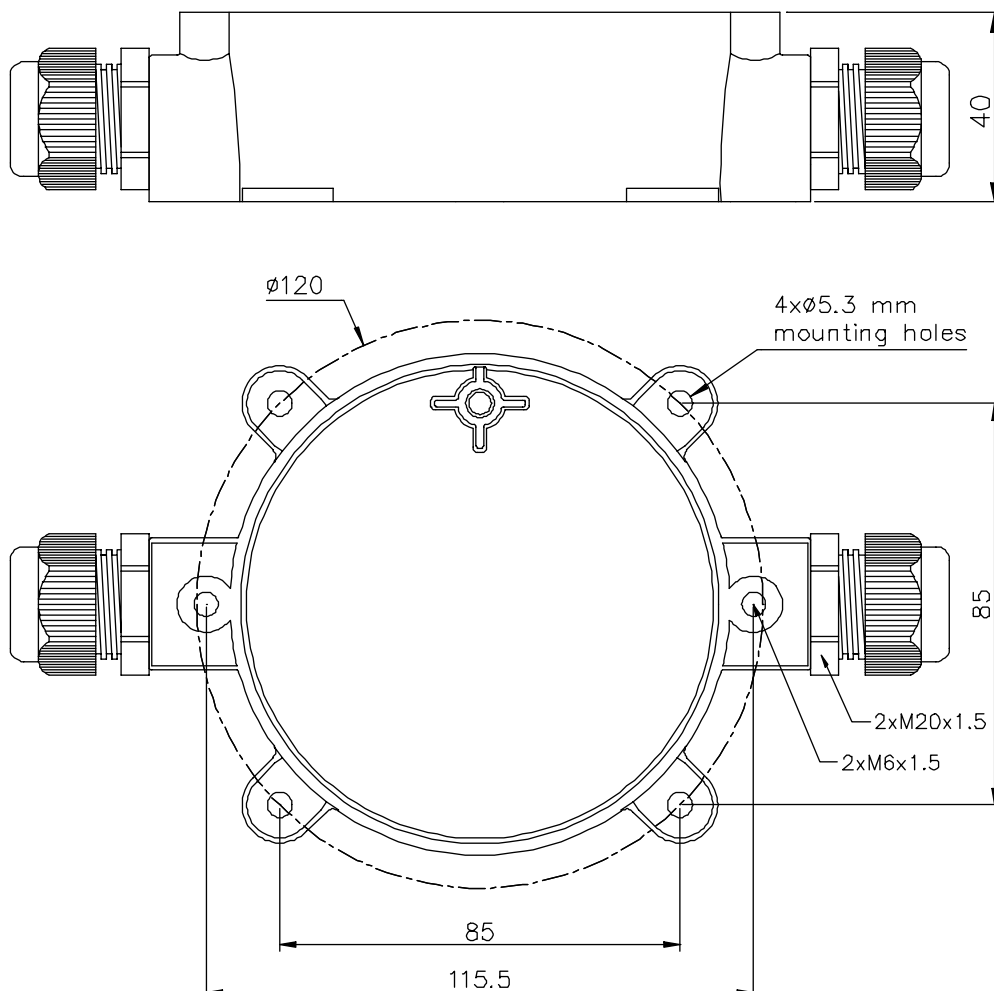
Description

The 2IP55 is a base for all Salwico IP55 detector adapters. Together with the adapters it is possible to install smoke, heat and flame detectors in harsh environment with an ingress protection up to IP55. It can be used for both addressable and conventional fire alarm systems.

Data

Cable diameter	Ø6-14 mm
Ingress protection	IP55
Fire class	V1
Temperature range	-30°C to +100°C
Material	Polyamide/glass (PA666, 15% GW)
Colour	White
Weight	~100 g

Dimensions (mm)





Optical Smoke Detector

Salwico DOS3

Part no. N1115

System: Salwico conventional fire alarm systems

Description

The DOS3 is a low profile conventional optical smoke detector designed to combine optimal response to smoke with a strong immunity to false and unwanted alarms.

The sensor employs an alarm verification function, which requires two successive pulses before an alarm is given.

The detector design provides strong immunity to air velocities, contamination and EMC. By means of a special protective mesh it is ensured that smoke can enter the detector easily whilst accessibility to insects and airborne contaminants is eliminated.

The DOS3 detector can be mounted on bases for use in both dry spaces and in harsh environments.

The DOS3 is compatible with the OD-5 smoke detector.

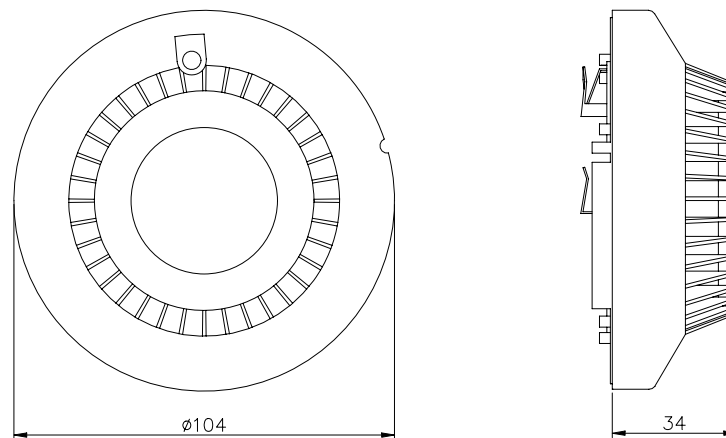
Data

Operating principle	Conventional, optical, light scattering type, infrared
Nominal voltage	24VDC
Working voltage	17-30VDC
Operating current	
- supervising	max 40 μ A at 24 VDC
- alarm	max 55 mA
- extra LED	max 20 mA at 6 V
Alarm resistance	430 Ω
Temperature range	-25°C to +70°C
Ambient Humidity	0 – 95% RH
Ingress protection	IP42 / IP55 depending on base
Weight (head only)	95 g
Colour	White

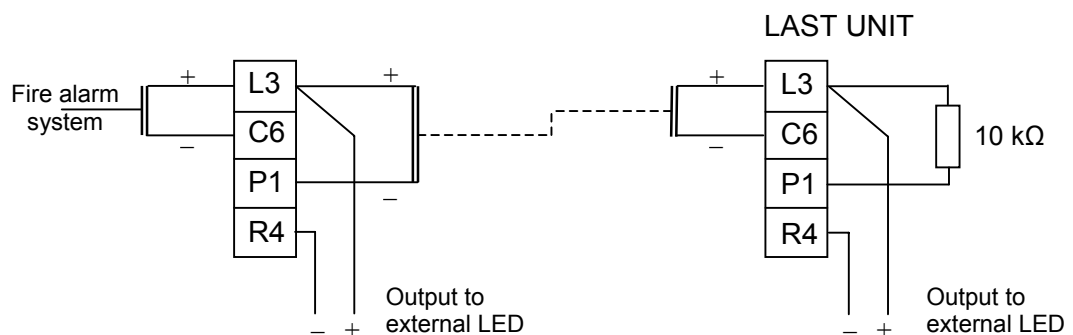
Detector Bases

For information about suitable base plates, see separate document "Base matrix for Salwico units".

Dimensions (mm)



Connection





G001765

Manual Call Point IP24 **Salwico MCP-C (GB)**

Part no. 5200010-01A

System: Salwico Cargo, Salwico Cruise, Salwico Workboat,
Salwico Yacht, Salwico RoPax, CS4000, ServoFighter, C300,
C303, C308, C316


General Description

The MCP-C is a manual call point for indoor environment and is designed for the Salwico conventional fire alarm systems.

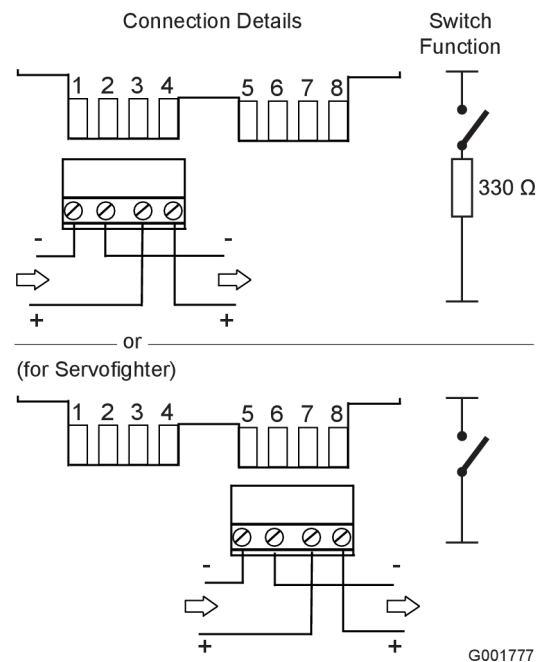
Pressing the glass causing it to crack activates the fire alarm. A protective plastic coating on the glass prevents operator injury.

The call point can be tested with a special key included in the delivery.

Data

Nominal voltage	24 VDC
Working voltage	16-30 VDC
Supervising current	0 mA
Alarm current	~90 mA
Ingress protection	IP24
Temperature range	-10°C to +55°C
Ambient humidity	0 to 95% RH
Material	PC/ABS
Colour	Red
Weight	160 g
Cable dimension	Ø6-14 mm
Certified according to	 0832
Spare glasses (10pcs.)	Part no. 5200075-00A

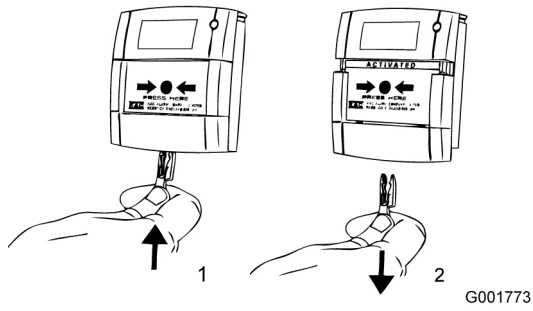
Connection



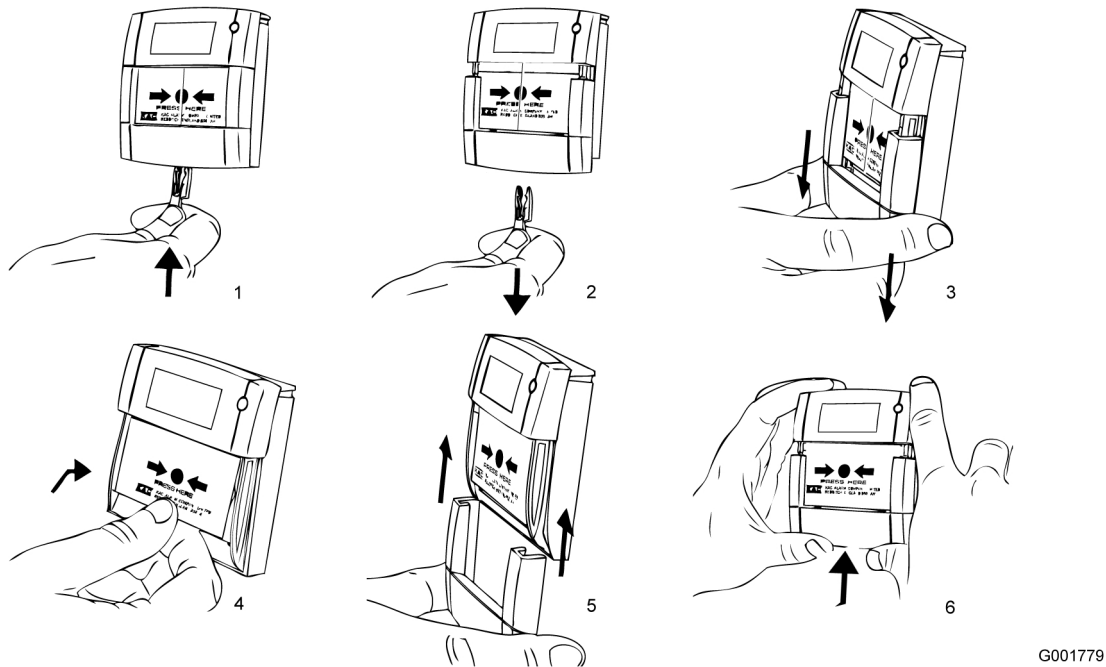
NOTE!

After the last section unit, add an **End of line** resistor between terminals 2 and 4 or 6 and 8 (for servofighter) according to system specification.

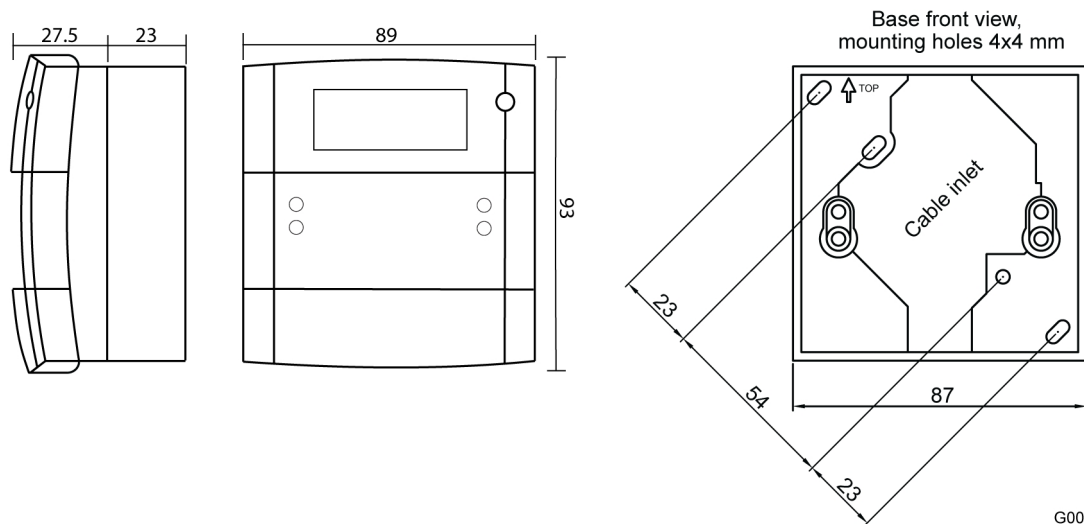
Test

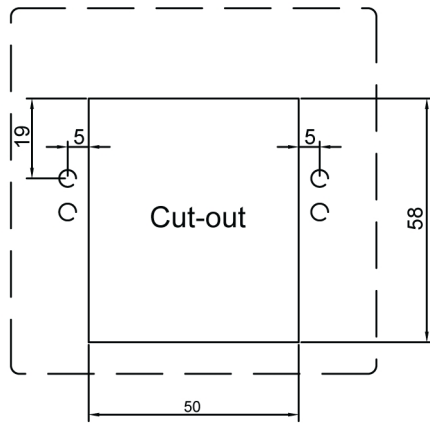


Change Glass



Dimensions (mm)



Mounting Dimensions (mm)

G003141



G003443

Addressable/Conventional IR Flame Detector

Salwico AC-IR-3Fq

Part no. 5200236-00A

System: Depends on base. See Datasheet for: 5200235-00A
Salwico AC-IR-3Fq Conventional Base and 5200237-00A
Salwico AC-IR-3Fq Addressable Base

General Description

The AC-IR-3Fq is a triple frequency conventional infrared flame detector produced using the latest in manufacturing technology. It is supplied with an array of advanced features, making it 'better by design'.

The Detector is using infrared elements suitable for the detection of smokeless combustible liquid and gas fires, as well as smoke-forming open fire involving carbonaceous materials as contained in wood, plastics, gases, oil products etc.

The Fire evaluation process is done by triple Infrared (3Fq) sensor; protected by a sapphire glass filtering $>6.0\mu\text{m}$ wavelength radiation.

Sensor measures the hot carbon dioxide in a specific flame wavelength; the B and C sensors simultaneously measure the interference radiation in near wavelengths.

This technique together with intelligent signal processing through microprocessor and custom algorithms, achieves excellent detection reliability while maintaining the highest immunity to interference radiation and sunlight.

Testing

For functional test, use Salwico IR Test lamp, part no. 001156. Due to the detectors high immunity to unwanted alarms, it is difficult to test the detector without the IR test lamp.

Features

- Triple Frequency IR Detector
- Low current draw
- Suitable for installation in damp environment
- Easy Maintenance
- Remote LED Option
- Approved to UNI EN54-10 Ed. 2002

Data

Electrical Specifications

Operating Voltage Range	24 V DC
Supply Voltage	24 V DC
Max Current (Normal)	450 μA
Max Current Detector	700 μA (Alarm)
Addressable Mode	1 mA (Alarm incl. Base)
Conventional Mode	30 mA (Alarm Incl. Base)

Environmental Specifications

Application Temperature Range	-25 °C to +75 °C
Humidity	Up to 95%

Mechanical Information

Height	69 mm (including base)
Diameter	103 mm
Weight	250 g
Weight with IP65 Base	380 g
Wire Gauge for Terminals	2,5 mm ²
Colour	White RAL9010
Material	Polycarbonate Flame Retarded Cl. UL94V0
IP Rating	IP65 (IP67 with locking screws)

Certified according to



0474/yy

yy = year of production

Detector Base

5200235-00A Salwico AC-IR-3Fq Conventional Base

5200237-00A Salwico AC-IR-3Fq Addressable Base

Test Equipment

001156 Salwico IR Test lamp

Installation

For featured wiring the detector is installed on a base, provided in IP65 proof version.

The detector is connected to the base through a fast bayonet clutching and a flying connector.

Certain factors need to be considered when designing an installation:

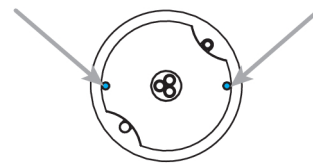
- The sensors should be mounted so that objects do not block their field-of-view (FOV). This includes glass, Plexiglas and other visibly transparent materials. Contact Consilium for more information.
- Whenever possible, sensors should be mounted so their ranges and fields-of-view overlap.
- Sensors should be mounted so their FOV cannot be chopped by moving machinery or human operators during normal operations within the area. Therefore they should be installed as high as possible or on the ceiling.
- Detector window should not be exposed to hot or cold intermittent airflow which could change the temperature of the detector itself or detector FOV background.
- To ensure optimum sensitivity and performance, sensors should be mounted so they do not look at hot surfaces: if this is necessary first follow procedure to ensure no chopper is present.
- The sensors should be mounted so that they are easily and safely accessible for inspection and maintenance.
- If mechanical, high-temperature damage, or window contamination is likely to occur in the installed location, then the sensor should be protected. However the protection method cannot obstruct the sensors FOV with any material, including visibly transparent materials, such as glass and Plexiglas.
- The sensor can be mounted in any orientation, as long as captive screws are removed or can be removed.
- Mounting the sensor so that it points downwards is recommended as this generally results in minimal window contamination.
- Care must be taken to avoid that sensor installation exceeds environmental approvals such as temperature, shocks, vibrations.
- Care must be taken to avoid that sensor installation exceeds electromagnetic interference approval: in particular install detectors in places out-of-reach of personnel (including contractors and crew members).
- It is important **NOT** to leave any extra cable slack when installing this detector.
- Cable shield shall be connected to the ground on one side only.
- The DIP-Switch Setting recommended by Consilium is to turn Sw.No.2 ON for the highest sensitivity. For more details, see Settings.

For more details, see Flame Detector Installation manual 5100512.



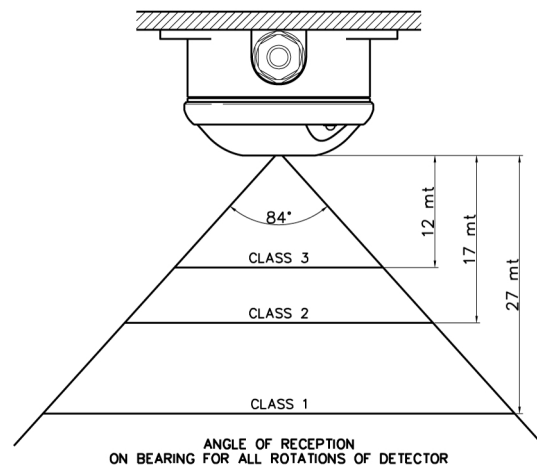
Hint!

For outdoor mounting: Fit the detector screws on the base to ensure IP67 Protection Index.



G009840

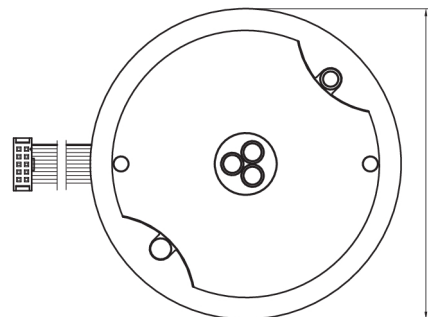
Angle of Reception



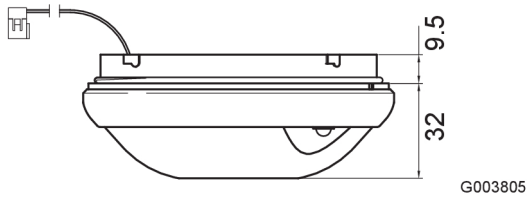
ANGLE OF RECEPTION
ON BEARING FOR ALL ROTATIONS OF DETECTOR

G003406

Dimensions (mm)



G003804



Settings

SI DIP-Switch setup

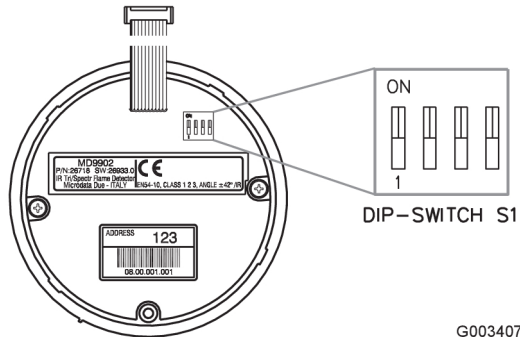


Figure 1. DIP-Switch Setting.

Use the 4-ways Dip-switch S1 to set the detector as Conventional or Addressable and preset sensitivity threshold (Class):

Table 1. DIP-Switch Setting

Sensitivity class	Sw.No.1	Sw.No.2	Sensitivity
Class 1*	OFF	ON	High up to 27 m
Class 2	ON	OFF	Medium up to 17 m
Class 3**	OFF	OFF	Low up to 12 m

Table 2. Conventional Mode

Mode	Sw.No.3	Sw.No.4
Conventional	ON	ON

Only when used with Base 5200235-00A.

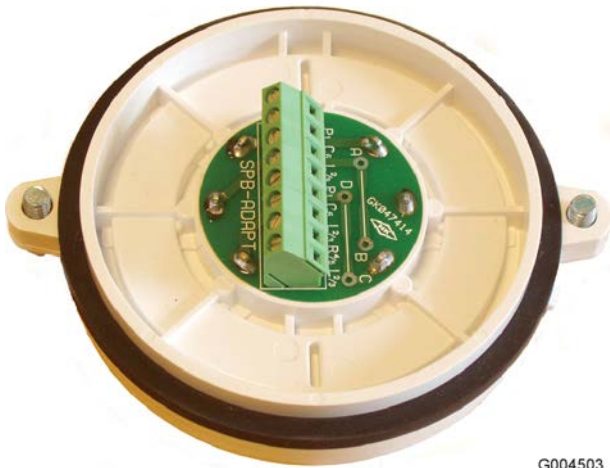
Table 3. Addressable Mode

Mode	Sw.No.3	Sw.No.4
Addressable**	OFF	OFF

Only when used with Base 5200237-00A.

* Recommended setting by Consilium

** Default factory setting



G004503

Base Adapter **SPB-ADAPT**

Part no. 046916

System: All Salwico Fire Alarm Systems

General Description

SPB-ADAPT is an adapter for the bases 2IP55 (part no. 046950) and NS-2IP55 (part no. 046900).

SPB-ADAPT is developed to replace the adapters SPB-1 (part no. 046915) and NS-ADAPT (part no. NI421).

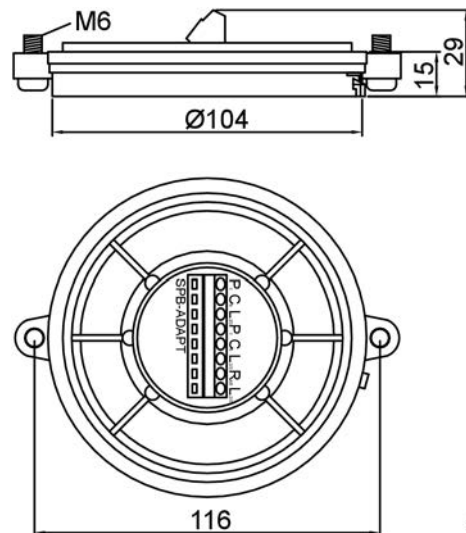
Smoke, heat and flame detectors can be connected to this adapter. For more information about suitable bases, see separate document "Base matrix".

The adapter can be used for all Salwico fire alarm systems.

Data

Cable terminals	2.5 mm ²
Ingress protection	IP55 (mounted on a base)
Material	PC/ABS
Colour	White
Weight	~110 g

Dimensions (mm)



G004504

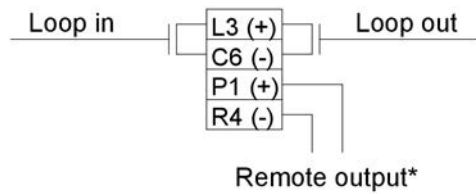
Important Mounting Instructions

The mounting screws shall be fitted with the following torque:

Min.	1.3 Nm
Recommended	1.7 Nm
Max.	2.0 Nm

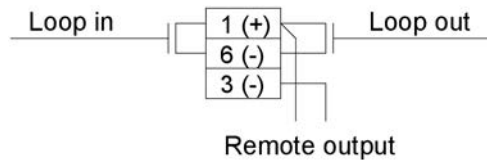
Connection

Connection of addressable detectors IA, OA, TDT and EV-PP series:



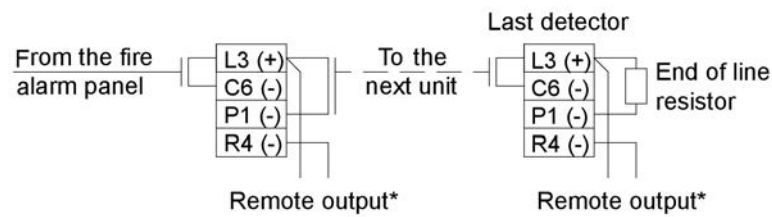
G003132

Connection of addressable detectors NS, CN and EV-series** (EV-PP excluded):



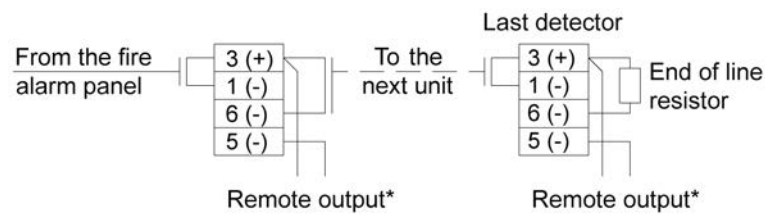
G003133

Connection of conventional detectors DIS3, DOS3, HCI00, NS-DIR and NS-DUV:



G003134

Connection of conventional flame detectors EVC-IR (not NS-DIR or NS-DUV):



G003135

* All types of detectors do not have the remote output. Please refer to the data sheet for the detector in question.

** For loop units with short circuit isolators, see connection on data sheet for that unit.