EvacGo

Open Area Sounder

Product Information

The EvacGo open area sounder is designed for use in open-areas, and includes features such as group and individual control, and status reporting

The open are sounders offer 6 EN 54-3 approved volume levels to choose from, as well as one non-approved volume level for specialist applications, all configured through the EvacGo control panel.



Features

- Adjustable tone and volume (15 tone pairs, seven volume levels)
- Software defined group addressing with up to 16 group addresses
- Alarm switching by individual device, by group address or of all individual devices on the loop
- Built-in controllable isolator
- Set-up and testing of devices at point of installation
- Unique acoustic self test

Standards and Approvals

- EN 54-3:2001 +A1:2002 +A2:2006 - Sounders
- EN 54-3:2014 +A1:2019 - Sounders
- EN 54-17:2005 - Short circuit isolators
- EN IEC 63000:2018 - Hazardous substances
- BS EN 61000-6-3:2007 +A1:2011 - Electromagnetic compatibility
- BS EN 50130-4:2011 +A1:2014 - Electromagnetic compatibility

Order Codes and Options

EVAC-SNDR/R	Open area sounder (Red)
EVAC-SNDR/W	Open area sounder (White)
EVAC-MB/R	Sounder mounting base (Red)
EVAC-MB/W	Sounder mounting base (White)

Specification

Supply voltage	17V - 35V dc
Quiescent current	890µA
Alarm current, LED on	5.95mA (max volume at 24V)
Alarm current at each volume	Volume 7: 5.95mA
	Volume 6: 5.20mA
	Volume 5: 4.50mA
	Volume 4: 3.75mA
	Volume 3: 3.10mA
	Volume 2: 2.35mA
	Volume 1: 1.65mA (Not an EN 54-3 approved volume level)
Maximum sounder output at 90° at 1m	101dB(A)
Operating temperature	-10°C to +55°C
Storage temperature	-10°C to +55°C
Humidity	0% to 95% RH (No condensation or icing)
IP rating	IP21C
Dimensions	113mm diameter x 65mm deep
Weight	178g
Materials	Housing: White or red flame-retardant polycarbonate
	Terminals: Tin plated stainless steel

Note: All data is supplied subject to change without notice. Specifications are typical at 24V, +25°C and 50% RH unless otherwise stated.

The right tone for the installation

The EvacGo open area sounder offers a choice of 15 evacuation tones. A tone is selected during commissioning in order to suit local regulations or customs.

Whichever evacuation tone is selected there is a secondary tone which may be used for alerting or warning of a possible evacuation.

The right level of sound

The sounder is set during commissioning to one of seven levels of sound, the highest level being nominally 101 db(A) at 1m.

At less than 60 db(A) the lowest level falls outside the scope of the EN 54 standard. It has been included to provide a very local warning for the use of personnel in particular environments, such as nurse stations in hospitals.

Location specific volume setting

Detectors and sounder indicators are installed in many different types of environment.

When configuring the EvacGo open area sounder devices the adjustment of the volume can be done at the point of installation.

The commissioning engineer simply sets the control panel to ‘Set-up’ and then walks from one device to the next to set the required volume, using a magnetic wand. When all devices have been set the engineer simply presses a button on the control panel which then registers all the individual volume settings.

EMC Directive 2014/30/EU

The EvacGo open area sounder complies with the essential requirements of the EMC Directive 2014/30/EU, provided that it is used as described in this data sheet.

Conformity of the open area sounder with the EMC Directive, does not confer compliance with the directive on any apparatus or systems connected to them.

Construction Products Regulation (EU) 305/2011

The Intelligent Open-Area Sounder complies with the essential requirements of the Construction Products Regulation (EU) 305/2011.

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EvacGo

Open Area Sounder VAD

Product Information

The EvacGo open area sounder visual alarm devices (VADs) have been developed as primary or supplementary alarm devices.

A combined notification device, the Sounder VADs may be used to provide both audible and visual alarm in situations where there's a risk that just one would not suffice. For example, where there is a risk that sounders will not be heard, in areas of high background noise such as in a workshop or machine room.

They may also be required where deaf or hearing-impaired persons may be present. The EvacGo open area sounder VADs are approved EN 54-23 Cat. W devices in both the High and Low power settings, and offer 6 EN 54-3 approved volume levels to choose from, as well as one non-approved volume level for specialist applications.



Features

- Adjustable tone and volume (15 tone pairs, seven volume levels)
- Configurable coverage volume, High and Low settings
- Wide angle of visability
- Software defined group addressing with up to 16 group addresses
- Built-in controllable isolator

Standards and Approvals

- EN 54-3:2001 +A1:2002 +A2:2006 - Sounders
- EN 54-3:2014 +A1:2019 - Sounders
- EN 54-17:2005 - Short circuit isolators
- EN 54-23:2010 - Visual alarm devices
- EN IEC 63000:2018 - Hazardous substances
- BS EN 61000-6-3:2007 +A1:2011 - Electromagnetic compatibility
- BS EN 50130-4:2011 +A1:2014 - Electromagnetic compatibility

Order Codes and Options

EVAC-SVAD/RW	Open area sounder VAD (Red body, white flash)
EVAC-SVAD/WW	Open area sounder VAD (White body, white flash)
EVAC-MB/R	Sounder mounting base (Red)
EVAC-MB/W	Sounder mounting base (White)

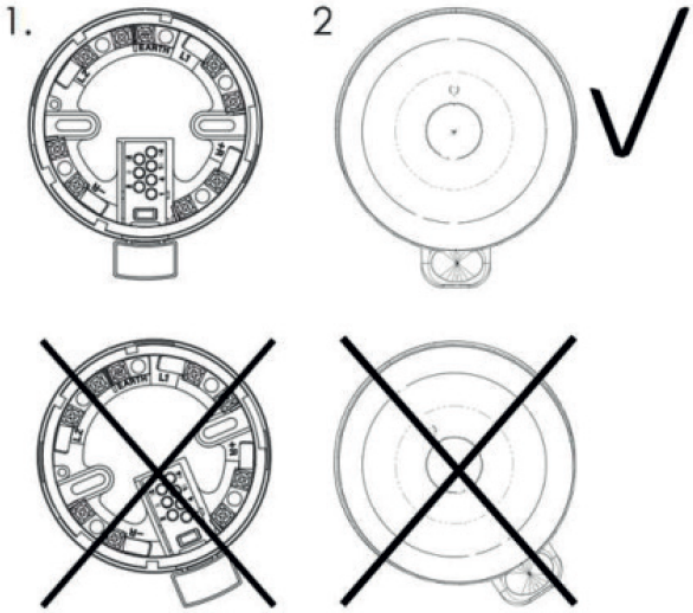
Specification

Supply voltage	17V - 35V dc
Quiescent current	1.2mA
Alarm current, LED on	5.95mA (max volume at 24V)
Alarm current, sounder and VAD on	High coverage: 19mA
	Low coverage: 14.5mA
Flash rate	0.5Hz
Maximum sounder output at 90° at 1m	101dB(A)
Operating temperature	-10°C to +55°C
Storage temperature	-10°C to +55°C
Humidity	0% to 95% RH (No condensation or icing)
IP rating	IP21C
Dimensions	113mm diameter x 65mm deep
Weight	214g
Materials	Housing: White or red flame-retardant polycarbonate
	Terminals: Tin plated stainless steel

Note: All data is supplied subject to change without notice. Specifications are typical at 24V, +25°C and 50% RH unless otherwise stated.

Application

The base must be positioned on the wall, with the mounting base card pointing downwards for correct orientation and coverage.

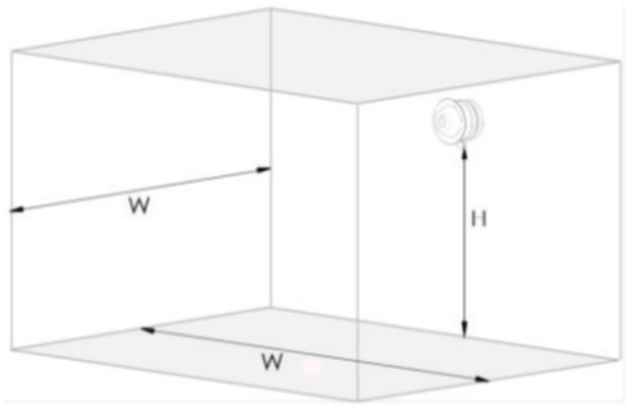


The figure opposite shows the coverage volume for the wall category VAD.

H - The maximum height of the device on the wall in meters with a
maximum value of 3.1 m.

W - The width in metres of the square volume covered when the device is mounted to the wall at required height.

Example - Part No. EVAC-SVAD/WW (W-3.1-10) - coverage cuboid
volume of 3.1 x 10 x 10 = 310 m³



The right tone for the installation

The EvacGo open area sounder VAD offers a choice of 15 evacuation tones. A tone can be selected during commissioning in order to suit local regulations or customs.

Whichever evacuation tone is selected there is a secondary tone which may be used for alerting or warning of a possible evacuation.

The right level of sound

The sounder is set during commissioning to one of seven levels of sound, the highest level being nominally 101 db(A) at 1m.

At less than 60 db(A) the lowest level falls outside the scope of the EN 54 standard. It has been included to provide a very local warning for the use of personnel in particular environments, such as nurse stations in hospitals.

Sounder, visual alarm or both

The EvacGo open area sounder VAD normally switches both sounder and visual alarm on to provide an alert or evacuation signal.

In situations where a flash or a sounder is not permitted/required, it is a simple choice as to whether to switch both sounder and visual alarm together or to switch either as necessary via the control panel.

The VAD coverage setting can be selected within the panel config.

Location specific volume setting

Detectors and sounder indicators are installed in many different types of environment.

When configuring the EvacGo open area sounder VAD devices the adjustment of the volume can be done at the point of installation.

The commissioning engineer simply sets the control panel to ‘Set-up’ and then walks from one device to the next to set the required volume, using a magnetic wand. When all devices have been set the engineer simply presses a button on the control panel which then registers all the individual volume settings.

EMC Directive 2014/30/EU

The EvacGo open area sounder VAD complies with the essential requirements of the EMC Directive 2014/30/EU, provided that it is used as described in this data sheet.

Conformity of the open area sounder VAD with the EMC Directive, does not confer compliance with the directive on any apparatus or systems connected to them.

Construction Products Regulation (EU) 305/2011

The open-area sounder VAD complies with the essential requirements of the Construction Products Regulation (EU) 305/2011.

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EvacGo

Isolator

Product Information

The EvacGo 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 EvacGo isolator can only be used with the isolator base (EVAC-ISO/MB) and will not fit a standard addressable base.



Features

- Detects wiring short circuits using patented technology
- Minimises disruption from short circuits
- Automatic de-isolation on short-circuit removal
- Up to 20 detectors (or equivalent) may be installed between isolators

Standards and Approvals

- EN 54-3:2001 +A1:2002 +A2:2006 - Sounders
- EN 54-3:2014 +A1:2019 - Sounders
- EN 54-17:2005 +AC:2007 - Short circuit isolators
- EN IEC 63000:2018 - Hazardous substances
- BS EN 61000-6-3:2007 +A1:2011 - Electromagnetic compatibility
- BS EN 50130-4:2011 +A1:2014 - Electromagnetic compatibility

Order Codes and Options

EVAC-ISO	Isolator (Requires EVAC-ISO/MB)
EVAC-ISO/MB	Isolator mounting base (for EVAC-ISO)

Specification

Supply voltage	17V - 28V dc
Modulation voltage	5V - 9V peak to peak
Quiescent current	35µA
Surge current	0mA
Maximum current drawn	8.5mA
Maximum line impedance	50Ω
Operating temperature	-30°C to +80°C
Humidity	10% to 93% RH (No condensation or icing)
Dimensions	100mm diameter x 3.5mm deep
Materials	White flame-retardant polycarbonate

Note: All data is supplied subject to change without notice. Specifications are typical at 24V, +25°C and 50% RH unless otherwise stated.

EMC Directive 2014/30/EU

The EvacGo isolator and isolator base comply with the essential requirements of the EMC Directive 2014/30/EU, provided that it is used as described in this data sheet.

Conformity of the isolator and isolator base with the EMC Directive, does not confer compliance with the directive on any apparatus or systems connected to them.

Construction Products Regulation (EU) 305/2011

The EvacGo isolator complies with the essential requirements of the Construction Products Regulation (EU) 305/2011.

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EvacGo

Sounder Mounting Base

Product Information

The sounder mounting base has a wide interior diameter for ease of access to cables and terminals.

Sounders require a clockwise rotation into the base for fitting.

The addressing card supplied with the base, has pre-punched pips to remove to set the address.



Features

- Compatible with:
  - EVAC-SNDR/R
  - EVAC-SNDR/W
  - EVAC-SVAD/RW
  - EVAC-SVAD/WW
- Isolated wiper - maintains loop connectivity during temporary removal of devices
- Supplied with addressing card
- Base mark allows for LED detector alignment

Standards and Approvals

- EN IEC 63000:2018 - Hazardous substances
- BS EN 61000-6-3:2007 +A1:2011 - Electromagnetic compatibility
- BS EN 50130-4:2011 +A1:2014 - Electromagnetic compatibility
- EN 15804:2012 +A2:2019 - Environmental product declaration

Order Codes and Options

EVAC-MB/W	Sounder mounting base (White)
EVAC-MB/R	Sounder mounting base (Red)

Specification

Dimensions	100mm diameter x 20mm deep	
Weight	61g	
Materials	Base:	White flame-retardant polycarbonate
	Terminals:	Nickle plated stainless steel

Note: All data is supplied subject to change without notice. Specifications are typical at 24V, +25°C and 50% RH unless otherwise stated.

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Sounder Base

Product Information

The EvacGo sounder base includes features such as group, global and individual control, status reporting and selectable tone and volume settings, all configured through the EvacGo control panel

The EvacGo sounder base requires a base cover (EVAC-BC/W, sold separately).



Features

- Adjustable tone and volume (15 tone pairs, 7 volume settings)
- Software defined group addressing with up to 16 group addresses
- Built-in isolator (when used with Evac sounder mounting base)
- Unique acoustic self test
- Set-up and testing of device at point of installation

Standards and Approvals

- EN 54-3:2001 +A1:2002 +A2:2006 - Sounders
- EN 54-17:2005 - Short circuit isolators
- EN IEC 63000:2018 - Hazardous substances
- BS EN 61000-6-3:2007 +A1:2011 - Electromagnetic compatibility
- BS EN 50130-4:2011 +A1:2014 - Electromagnetic compatibility

Order Codes and Options

EVAC-SNDR/B	Sounder base (Requires EVAC-MB/W & EVAC-BC/W)
EVAC-MB/W	Sounder mounting base (White)
EVAC-BC/W	Base cover (White)

Specification

Supply voltage	17V - 35V dc
Quiescent current	890µA
Alarm current, LED on	5.95mA (max volume at 24V)
Alarm current at each volume	Volume 7: 5.95mA
	Volume 6: 5.20mA
	Volume 5: 4.50mA
	Volume 4: 3.75mA
	Volume 3: 3.10mA
	Volume 2: 2.35mA
	Volume 1: 1.65mA (Not an EN 54-3 approved volume level)
Maximum sounder output at 90° at 1m	101dB(A)
Operating temperature	-10°C to +55°C
Storage temperature	-10°C to +55°C
Humidity	0% to 95% RH (No condensation or icing)
IP rating	IP21C
Dimensions	113mm diameter x 65mm deep
Weight	178g
Materials	Housing: White or red flame-retardant polycarbonate
	Terminals: Tin plated stainless steel

Note: All data is supplied subject to change without notice. Specifications are typical at 24V, +25°C and 50% RH unless otherwise stated.

The right tone for the installation

The EvacGo sounder base offers a choice of 15 evacuation tones. A tone is selected during commissioning in order to suit local regulations or customs.

Whichever evacuation tone is selected there is a secondary tone which may be used for alerting or warning of a possible evacuation.

Location specific volume setting

Detectors and sounder indicators are installed in many different types of environment.

When configuring the EvacGo open area sounder VAD devices the adjustment of the volume can be done at the point of installation.

The commissioning engineer simply sets the control panel to ‘Set-up’ and then walks from one device to the next to set the required volume, using a magnetic wand. When all devices have been set the engineer simply presses a button on the control panel which then registers all the individual volume settings.

The right level of sound

The sounder is set during commissioning to one of seven levels of sound, the highest level being nominally 95 dB(A) at 1m.

Construction Products Regulation (EU) 305/2011

The EvacGo sounder base complies with the essential requirements of the Construction Products Regulation (EU) 305/2011.

EMC Directive 2014/30/EU

The EvacGo sounder base complies with the essential requirements of the EMC Directive 2014/30/EU, provided that it is used as described in this data sheet.

Conformity of the sounder base with the EMC Directive, does not confer compliance with the directive on any apparatus or systems connected to them.

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EvacGo

Single Input/Output Module (Boxed)

Product Information

The EvacGo single input/output module provides supervision of one or more normally open contacts connected to a single pair of cables and a set of changeover relay output contacts.



Features

- Improved design for ease of wiring meaning faster installation
- Address range 1 - 126
- Failsafe mode (meets BS 7273-4 requirements)

Standards and Approvals

- EN 54-17:2005 - Short circuit isolators
- EN 54-18:2005 - Input/output devices
- EN IEC 63000:2018 - Hazardous substances
- BS EN 61000-6-3:2007 +A1:2011 - Electromagnetic compatibility
- BS EN 50130-4:2011 +A1:2014 - Electromagnetic compatibility

Order Codes and Options

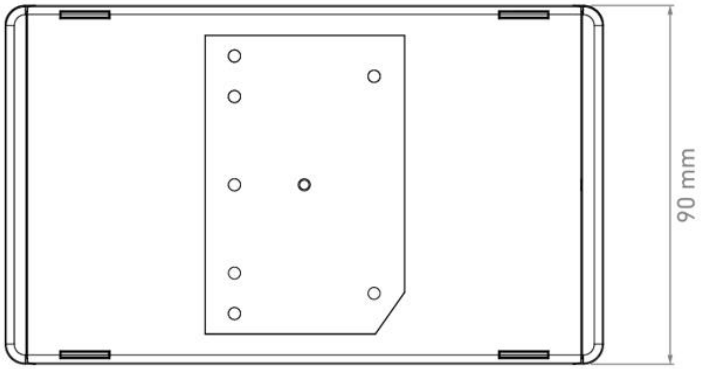
EVAC-SIO	Single input/output module (Boxed)

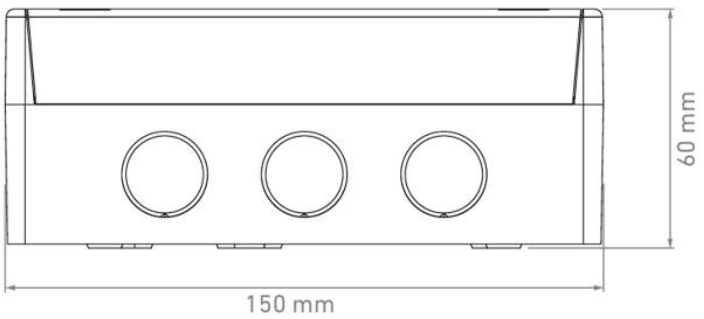
Specification

Supply voltage	17V - 35V dc
Quiescent current	500µA
Maximum current, LEDs on	3.5mA
Maximum current, LEDs disabled	500µA
Operating temperature	-40°C to +70°C
Storage temperature	-10°C to +55°C
Humidity	0% to 95% RH (No condensation or icing)
IP rating	IP52
Dimensions	60mm height x 150mm width x 90mm depth
Weight	244g

Note: All data is supplied subject to change without notice. Specifications are typical at 24V, +25°C and 50% RH unless otherwise stated.

Dimensions





Status Indicators

Legend	LED Status	Description
RLY	Continuous red	Relay active
RLY	Continuous yellow	Relay fault
Poll/ISO	Flashing green	Polling LED
Poll/ISO	Continuous yellow	Isolator LED
I/P	Continuous yellow	Input fault
I/P	Continuous red	Input active

Mechanical Construction

The EvacGo single input/output module is available in the new faceplate style enclosure. This can be mounted with the supplied back-box for surface mounting or flush mounted using a UK double gang, flush mounting back-box of minimum depth 30mm.

Construction Products Regulation (EU) 305/2011

The single input/output module complies with the essential requirements of the Construction Products Regulation (EU) 305/2011.

Failsafe

In Failsafe mode the EvacGo single input/output module will activate the on-board relay output without being commanded by the control panel on loss of loop or protocol loss.

Failsafe mode is selected via a DIL switch and indicated with an analogue value of 17.

EMC Directive 2014/30/EU

The single input/output module complies with the essential requirements of the EMC Directive 2014/30/EU, provided that it is used as described in this data sheet.

Conformity of the open area sounder VAD with the EMC Directive, does not confer compliance with the directive on any apparatus or systems connected to them.

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