Axis EN

Axis EN Wireless Heat Detector

The Axis EN wireless heat detector is the latest in wireless heat detector technology. The detector is a fully intelligent device designed to give the best possible warning of a fire condition in locations where smoke detection technology is not suitable. The device is capable of being configured as either a high temperature or rate of rise device type.

The well-proven adaptive radio signal processing algorithms ensure the highest levels of life safety and system reliability are achieved. An in-built magnet test allows easy activation to verify correct functionality and response.



Features

- Twin alarm LEDs for 360° degree visibility
- Programmable for rate of rise (A1R) or high temperature (BS)
- Bi-directional wireless communication
- 22 pairs of field channels
- Dual channel redundancy
- Long communication range
- 10-year battery life
- Uses standard low-cost lithium battery technology
- Device identification tab
- Security screw to prevent tampering and unwanted removal
- Easy scan and link programming option
- Third party approved
- Tri-coloured LED

Standards and Approvals

- EN54-5 Class P: Heat Detectors. Point Detectors
- EN54-25: Components using radio links

Specification

Operating frequency range	868 - 870 MHz
Maximum radiated power	14dBm (25mW)
Class A1R	58° max
Class BS high temp	78° max
Dimensions (H x W)	110 x 70 mm
Weight (without batteries)	153 g
Operating temperature range (no icing)	-10ºC to +55ºC
Maximum tolerated humidity (non condensing)	95% RH
IP Rating	40

Order Codes and Options

Axis-THT	Axis EN Wireless Heat Detector

Base Compatibility

Axis-TSMB	Axis EN Wireless Base Sounder
Axis-TSVMB	Axis EN Wireless Base Sounder-Beacon (White LED)
Axis-TSVMBRF	Axis EN Wireless Base Sounder-Beacon (Red LED)

Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Axis EN

Axis EN Wireless Multi-Criteria Detector

The Axis EN wireless multi-criteria detector is the latest in wireless multi-criteria detector technology. The detector is a fully intelligent device combining both smoke and heat detection technologies for improved performance, whilst maintaining high levels of unwanted alarm rejection.

Using well-proven adaptive radio signal processing algorithms ensure the highest levels of life safety and system reliability are achieved. An in-built magnet test allows easy activation to verify correct functionality and response.



Features

- Advanced dual optical chamber design
- Twin alarm LEDs for 360° visibility
- Multiple operating settings
- Advanced drift compensation
- Bi-directional wireless communication
- 22 pairs of field channels
- Dual channel redundancy
- Long communication range
- 10-year battery life
- Uses standard low-cost lithium battery technology
- Device identification tab
- Security screw to prevent tampering and unwanted removal
- Easy scan and link programming option
- Third party approved
- Tri-coloured LED

Standards and Approvals

- EN54-5 Class A1R: Heat Detectors
- EN54-7 Smoke Detectors
- EN54-25: Components using radio links

Specification

Operating frequency range	868 - 870 MHz
Maximum radiated power	14dBm (25mW)
Dimensions (H x W)	110 x 70 mm
Weight (without batteries)	155 g
Batteries	2 x CR123A
Operating temperature range (no icing)	-10ºC to +55ºC
Maximum tolerated humidity (non condensing)	95% RH
IP Rating	40

Order Codes and Options

Axis-TOH	Axis EN Wireless Multicriteria Detector

Base Compatibility

Axis-TSMB	Axis EN Wireless Base Sounder
Axis-TSVMB	Axis EN Wireless Base Sounder-Beacon (White LED)
Axis-TSVMBRF	Axis EN Wireless Base Sounder-Beacon (Red LED)

Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com
As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Axis EN Wireless Optical Detector

The Axis EN wireless dual optical smoke detector is the latest in wireless smoke detector technology. The detector uses dual optical smoke detection technologies and algorithms for improved performance, and maintaining the highest levels of false alarm rejection.

Using well-proven adaptive radio signal processing algorithms it ensures the highest levels of life safety and system reliability are achieved. In-built magnet test allows easy activation to verify correct functionality and response.



Features

- Advanced dual optical chamber design
- Dual angle scattering analysis
- Advanced drift compensation
- Bi-directional wireless communication
- 22 pairs of field channels
- Dual channel redundancy
- Long communication range
- 10-year battery life
- Uses standard low-cost lithium battery technology
- Device identification tab
- Fast test feature for engineer testing
- Security screw to prevent tampering and unwanted removal
- Easy scan and link programming option
- Third party approved
- Tri-coloured LED

Standards and Approvals

- EN54-7 Smoke detectors
- EN54-25: Components using radio links

Specification

Operating frequency range	868 - 870 MHz
Maximum radiated power	14dBm (25mW)
Dimensions (H x W)	110 x 70 mm
Weight (without batteries)	155 g
Operating temperature range (no icing)	-10ºC to +55ºC
Maximum tolerated humidity (non condensing)	95% RH
IP Rating	40

Order Codes and Options

Axis TOP	Axis EN Wireless Optical Detector

Base Compatibility

Axis-TSMB	Axis EN Wireless Base Sounder
Axis-TSVMB	Axis EN Wireless Base Sounder-Beacon (White LED)
Axis-TSVMBRF	Axis EN Wireless Base Sounder-Beacon (Red LED)

Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Axis EN Wireless Manual Call Point

The Axis EN Wireless Manual Call Point (MCP) is a fully intelligent device which is compatible with all Axis EN Translator and Expander Modules.

The unit has a resettable plastic element, which displays a drop down warning indicator when operated. A key is supplied with the MCP for reset and case opening.

The product is powered by two lithium CR123A batteries with a typical life of 10 years. A transparent cover protects against accidental operation, whilst a weatherproof enclosure is available for use outdoors or in hostile environments.



Features

- Bi-directional wireless digital communications protocol
- 22 pairs of field channels
- Dual channel redundancy
- Long communication range
- 10-year battery life
- Uses standard low-cost lithium battery technology
- Resettable element
- Easy scan and link programming option
- Third party approval to EN54-11 and EN54-25

Standards and approvals

EN54-11 Manual Call Points

EN54-25 Components using radio links and system requirements

Specification

Operating frequency range	868 - 870 MHz
Maximum radiated power	14 dBm (25 mW)
IP rating	42
Weight (without batteries)	160g
Batteries	2 x CR123A (3V & 1.2 Ah)
Battery lifespan (typical)	10 years
Dimensions	88 mm x 87 mm x 61 mm
Operating temperature range	from -10°C - +55°C
Max humidity (non condensing)	95% RH

Protective Call Point Cover

The Axis-CPCI transparent cover for manual call point dramatically reduces both misuse and the risk of accidental activation making it ideal for sports halls, manufacturing and processing facilities, and other high-traffic areas. In addition, the Protective Call Point Cover ensures that two positive actions are required to activate the Call Point, making it suitable for territories where dual-activation is mandatory.



Order Codes and Options

Axis-TCP	Axis EN Wireless Call Point (Red)
Axis-CPCI	Transparent Cover for Axis-CP
Axis-CPKEY	Spare Reset Key for Axis EN Call Point
Axis-CPFMP	Wall Flush Mount Plate with External Frame (Red)

Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Advanced

Axis EN

Legacy Wireless Heat Detector

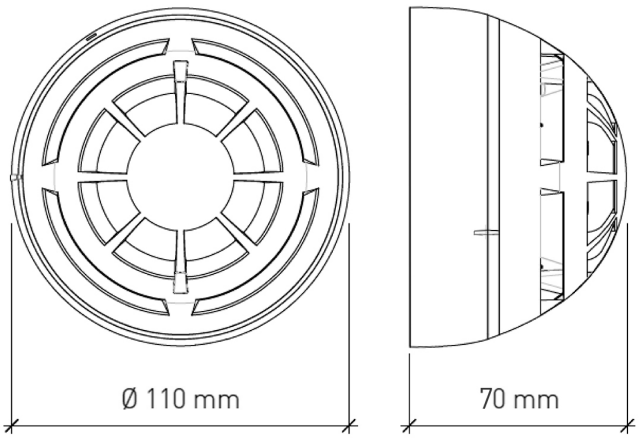
The Axis Wireless Heat Detector is the latest in wireless heat detector technology. It is a fully intelligent device and compatible with all Axis wireless translator and expander modules.

The detector is designed for open area protection giving the best possible warning of a fire condition in locations where smoke detection technology is not suitable. The well-proven adaptive radio signal processing algorithms ensure that the highest levels of life safety and system reliability are achieved. An in-built magnet test allows easy activation to verify correct functionality and response. A unique range of Decorline finishes is available.



Features

- Twin alarm LEDs for 350 degree visibility
- Internal algorithm processing optimises performance
- Utilises standard 3 Vdc lithium battery technology
- Bi-directional communication protocol between all wireless devices
- Device identification tab
- Multiple sensitivity warnings
- Approved to EN54-5 and EN54-25



Standards and Approvals

- EN54-5:2000 +A1:2002
- EN54-25:2008
- Approved by BRE/LPCB and certified by the UAE Civil Defence

Specification

Operating frequency range	868 MHz
Operating frequency channels	Multiple
Maximum radiated power	14dBm (25mW)
Class A1R	58° max
Class BS high temp	78° max
Dimensions (H x W)	110 x 70 mm
Weight	190 g
Operating temperature range (no icing)	-10ºC to +55ºC *
Maximum tolerated humidity (non condensing)	95% RH
IP Rating	40

* performance may vary at extremes of range

Order Codes and Options

Axis RHT	Wireless Smoke Detector

Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Advanced

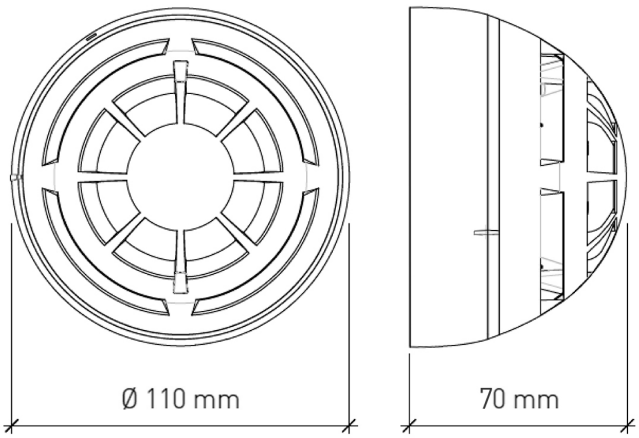
Axis EN

Legacy Wireless Multi-Criteria Detector

The Axis Wireless Multi-Criteria Detector is the latest in wireless multi-criteria detector technology. It is a fully intelligent device and compatible with all Axis wireless translator and expander modules.

The detector is designed for open area protection and combines both dual-path smoke and heat detection technologies for improved performance, whilst maintaining high levels of unwanted alarm rejection. Utilising well-proven adaptive radio signal processing algorithms ensures that the highest levels of life safety and system reliability are achieved. An in-built magnet test allows easy activation to verify correct functionality and response.





Features

- Advanced dual-path optical chamber design
- Internal algorithm processing optimises performance
- Utilises standard 3 Vdc lithium battery technology
- Multiple smoke and heat sensitivity settings
- Bi-directional communication protocol between all wireless devices
- Device identification tab
- Twin alarm LEDs for 360° visibility
- Approved to EN54-7, EN54-5 and EN54-25

Standards and Approvals

- EN54-5:2000 +A1:2002
- EN54-7:2000 +A1:2002 +A2:2006
- EN54-25:2008
- Approved by BRE/LPCB and certified by the UAE Civil Defence

Specification

Operating frequency range	868 MHz
Maximum radiated power	14dBm (25mW)
Operating frequency channels	Multiple

Choice of sensitivity settings	3 smoke/2 heat
Dimensions (H x W)	110 x 70 mm
Weight	190 g
Operating temperature range (no icing)	-10ºC to +55ºC *
Maximum tolerated humidity (non condensing)	95% RH
IP Rating	40
Magnet test	Yes

* performance may vary at extremes of range

Order Codes and Options

Axis ROH	Wireless Multicriteria Detector

Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Advanced

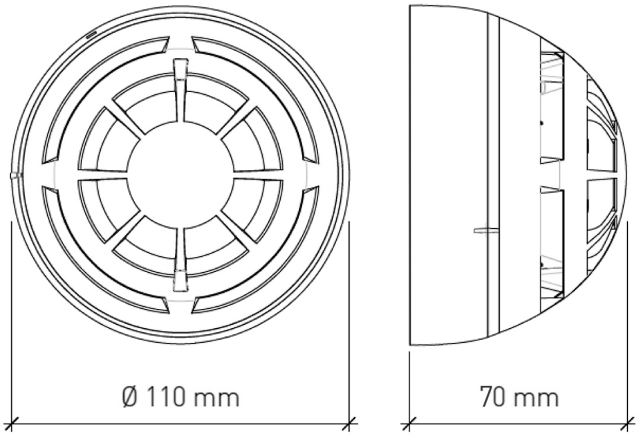
Axis EN

Legacy Wireless Smoke Detector

The Axis Wireless Dual Optical Smoke Detector is the latest in wireless smoke detector technology. It is a fully intelligent device and compatible with all Axis wireless translator and expander modules.

The detector is designed for open area protection and utilises dual-path optical smoke detection technologies and algorithms for improved performance, whilst maintaining the high levels of unwanted alarm rejection. Utilising well-proven adaptive radio signal processing algorithms ensures the highest levels of life safety and system reliability are achieved. An in-built magnet test allows easy activation to verify correct functionality and response.





Features

- Advanced dual path optical chamber design
- Internal algorithm processing optimises performance
- Utilises standard 3 Vdc lithium battery technology
- Bi-directional communication protocol between all wireless devices
- Device identification tab
- Dual angle scattering analysis
- Fast test feature for engineer testing
- Approved to EN54-7 and EN54-25

Standards and Approvals

- EN54-7:2000 +A1:2002 +A2:2006
- EN54-25:2008
- Approved by BRE/LPCB and certified by the UAE Civil Defence

Specification

Communication range	Up to 200 m (in open space)
Operating frequency range	868 MHz
Operating frequency channels	7
Dimensions (H x W)	110 x 70 mm
Operating temperature range (no icing)	-10ºC to +55ºC *
Maximum tolerated humidity (non condensing)	95% RH
IP Rating	40

* performance may vary at extremes of range

Order Codes and Options

Axis ROP	Wireless Smoke Detector

Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Advanced

Axis EN

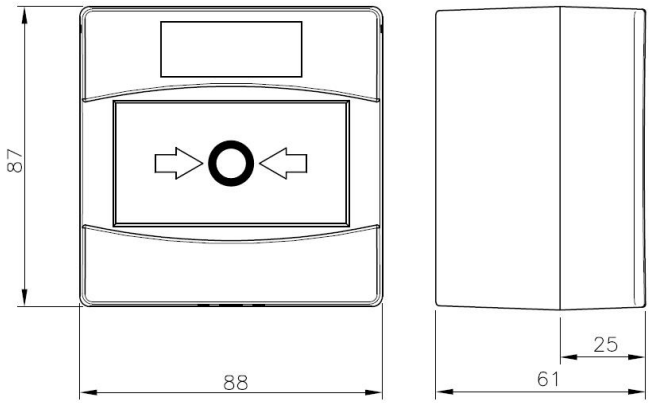
Legacy Wireless Call Point

The Axis EN Wireless Manual Call Point (Axis-RCP) is a fully intelligent device which is compatible with all Axis EN translator and expander modules.

The unit has a resettable plastic element, which displays a drop down warning flag when operated. A key is supplied with the manual call point for reset and case opening.

The product is powered by two batteries with a typical life of 10 years and with same form factor, simplifying stock management. The Manual Call Point can be fitted with an optional transparent cover for protection against accidental operation or with a weatherproof enclosure for use outdoors or in hostile environments.





Features

- Fully compatible with Axis EN range
- Bi-directional wireless digital communications protocol
- 3rd party approval to EN54-11 & EN54-25
- 10-year battery life, standard low cost lithium battery technology
- Resettable element
- Self-optimising wireless frequency and amplitude algorithms
- 3 years standard product warranty

Standards and Approvals

- EN54-11: Manual call points
- EN54-25: Components using radio links and system requirements
- DoP: ARCP

Specification

Operating frequency	868 - 870 MHz
Radio signal modulation type	FSK
Operating frequency channels	7
Communication range with the translator or expander module	150 m (in open space)
IP rating	42
Radiated power	14 dBm (25 mW)
Primary battery type	CR123A (3 V & 1.2 Ah)
Secondary battery type	CR123A (3 V & 1.2 Ah)
Battery lifespan (typical)	10 years
Approved battery voltage range	2.85 V - 3.20 V
Dimensions (H x W x D)	87 mm x 88 mm x 61 mm

Weight	160 g (without batteries)
Maximum humidity allowed (no condensing)	95% RH
Operating temperature range	from -10°C - +55°C

Order Codes and Options

Axis-RCP	Axis EN Wireless Manual Call Point
Axis-CPCI	Transparent Cover for Axis-CP (no text)
Axis-CPKEY	Spare Reset Key for Axis EN Call Point

Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Axis EN

Legacy Wireless Mounting Base

This mounting base has been designed for use with any of the Axis wireless detector range.

The base has multiple mounting-hole positions.



Features

- High reliability
- Device locking capability
- Integral device identification tab

Order Codes and Options

Axis-RMB	Axis Wireless Mounting Base

Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Advanced

Axis EN

Axis EN Wireless Expander Module

The Axis Expander Module is compatible with all Axis EN Wireless intelligent translators and the conventional expander. The unit provides a convenient method to increase radio communication range beyond that possible from a single translator by relaying the radio communication to further expanders or directly to the wireless field devices, allowing to build large fully wireless systems or add wireless devices into areas where cabling for translators is difficult or impossible.

The expanders are programmable for redundant path to the translator, so that if any expander in the chain fails, the transmission path can find an alternate route. The redundant paths are identified and tested during system commissioning for maximum reliability. All the wireless communication relies on a channel pair for spurious RF noise rejections and maximum link reliability. All expanders are fully monitored ensuring that the highest levels of life safety are maintained.



Features

- Bi-directional wireless communication
- 8 pairs of network channels
- Dual channel and dual path redundancy
- Long communication range
- Internal antennae design protects from environmental conditions, vandalism, accidental damage or misuse
- Requires external power supply unit
- Low current consumption
- Rich fire data transfer to translator (eg optical and thermal value, link quality, battery status, chamber drift compensation status)
- Up to 32 wireless field devices per expander
- Easy scan & link programming option
- External PSU status supervision
- Third party Approval to EN54-18 and EN54-25

Standards and Approvals

- EN54-18: Input/Output Devices
- EN54-25: Components using radio links and system requirements

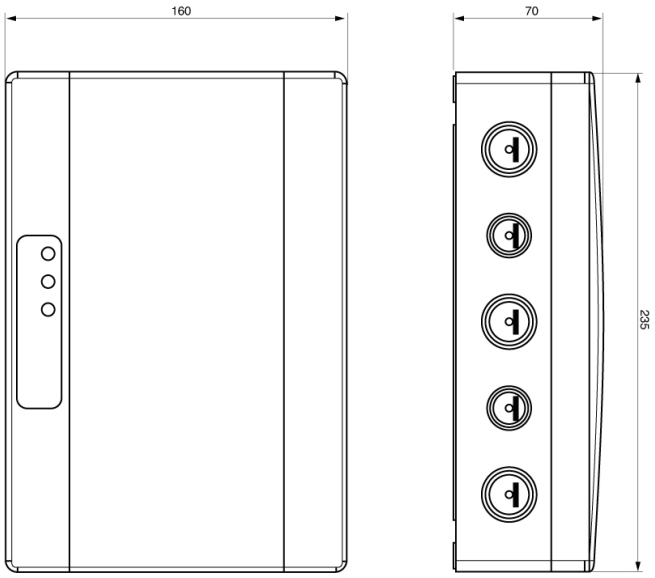
Specification

Operating frequency range	868 - 870 MHz
Power supply range	9Vdc - 30Vdc
Typical current consumption	24mA (@12Vdc)
Max radiated power	14dBm (25mW)
IP rating	65
Operating temperature range	-10°C to +55°C
Max humidity (non condensing)	90% RH
Dimensions H x W x D mm	235mm x 160mm x 70mm
Weight	700g

Order Codes and Options

Axis-TME	Axis EN Wireless Translator Module

Technical Information



Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Advanced

Axis EN

Axis EN Wireless Translator Module

The Axis EN Wireless Translator Module is is the core component of the Axis EN intelligent hybrid fire detection and alarm system.

When connected on to a compatible loop, the unit is capable of linking up to 128 fully intelligent wireless field devices with the fire alarm system. All wireless communications rely on a channel pair for spurious RF noise rejection and maximum link reliability.

The translator allows fully intelligent and seamless integration of the wireless devices alongside standard wired devices or can be used independently to form completely wireless systems. Using cutting edge wireless technology and a proprietary orthogonal antenna design it ensures the highest levels of life safety and system reliability.



Features

- Loop powered or via external power supply unit
- Bi-directional wireless communication
- Compatible with up to 15 expander modules
- Mesh expander technology programmable for redundant path to the translator
- Internal antennae design protects from environmental conditions, vandalism, accidental damage or misuse
- Low current consumption
- 8 pairs of network channels
- Dual channel redundancy
- Long communication range
- Full analogue data availability (eg optical and thermal value, link quality, battery status, chamber drift compensation status)
- Site programmable via internal keypad, or via wireless or wired PC connection
- Full system programming capability from the translator
- Easy scan & link programming option

Standards and Approvals

- EN54-17: Short Circuit Isolators
- EN54-18: Input/Output Devices
- EN54-25: Components using radio links and system requirements

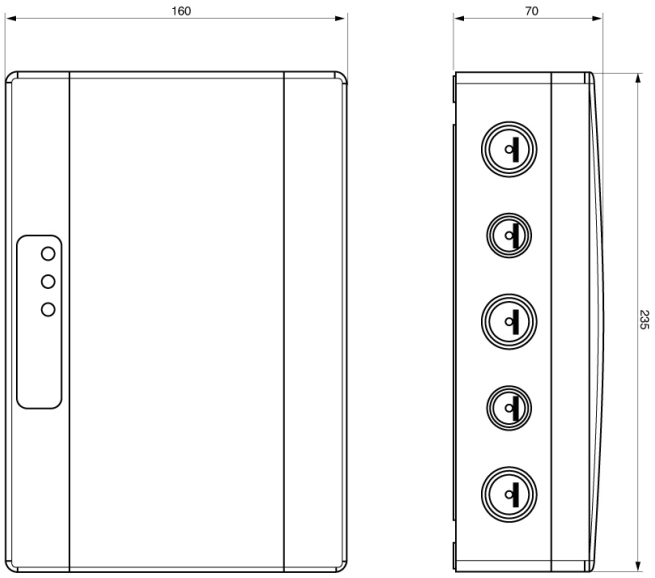
Specification

Loop power supply range	18Vdc to 40Vdc
Operating frequency range	868 - 870 MHz
Max radiated power	14dBm (25 mW)
IP rating	65
Operating temperature	–10ºC to +55ºC
Max humidity (non condensing)	90% RH
Typical current consumption	16mA (@ 24Vdc)
Dimensions H x W x D mm	235mm x 160mm x 70mm
Weight	700g

Order Codes and Options

Axis-TMT	Axis EN Wireless Translator Module

Technical Information



Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Advanced

Axis EN

Axis EN Wireless Single Channel Input Module

The Axis EN Wireless Input Module has a single fully monitored input circuit which allows simple integration of third party equipment with the fire system. The unit is fully compatible with all Axis EN Translator and Expander modules and the adaptive radio signal processing algorithms ensure the highest levels of life safety and system reliability.



Features

- Bi-directional wireless communication
- Input circuits are fully supervised for alarm and fault conditions (using eol resistors)
- 22 pairs of field channels
- Dual channel redundancy
- Long communication range
- 10-year battery life
- Uses dual low cost lithium battery
- Easy scan & link programming option
- Third party approval to EN54-25 & EN54-18

Standards and Approvals

- EN54-18: Input / Output Devices
- EN54-25: Components using radio links and system requirements

Specification

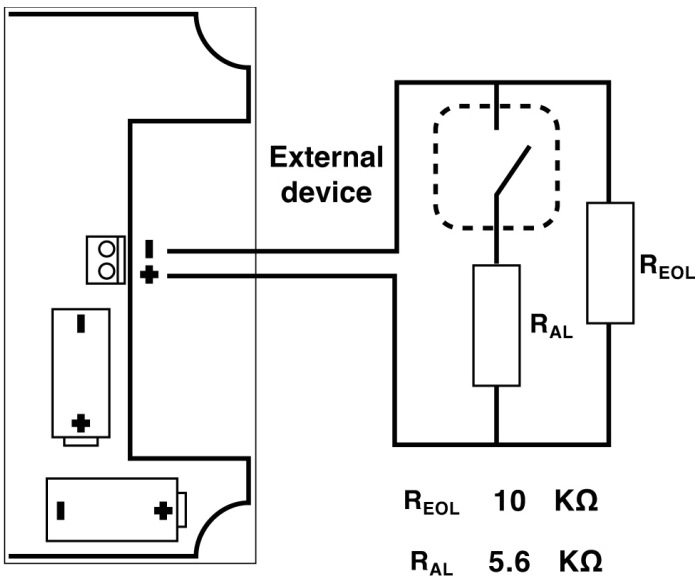
Operating frequency range	868-870 MHz
Max radiated power	14dBm (25mW)
IP rating	65
Cable entry knockout holes	6 x M16/20
Applicable wire gauge range	0.5mm2 to 2.5mm2
Weight (without batteries)	221g
Batteries	2 x CR123A (3V & 1.2Ah)
Battery lifespan (typical)	10 years
Dimensions	136mm x 96mm x 57mm
Operating temperature	-10ºC to +55ºC
Max humidity (non condensing)	95% RH
Alarm supervision resistor	5.6K
EOL supervision resistor	10K

Order Codes and Options

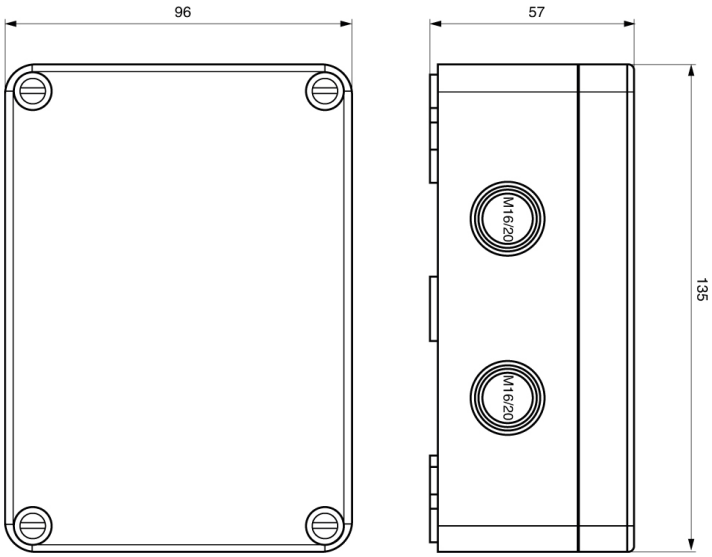
Axis-TMI:	Wireless Single Channel Input Module

Connections and configurations

Electrical scheme for the connection of the input module to the external device which transmits the input signal to the module.



Technical information



Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Axis EN Wireless Output Module

The Axis EN Wireless Output Module has been designed to allow easy control of a variety of third party equipment including access control doors, ventilation plant and fire extinguishing systems.

The unit is powered entirely from its internal battery supply and is fitted as standard with both a set of change over relay contacts and a 12/24V dc output. The output is capable of supplying power for operating low current third party equipment directly from the internal batteries.



Features

- Bi directional wireless communication
- Output circuits are fully supervised for fault conditions (using EOL resistors)
- Change over relay and 12/24V output functionality
- On site programmable
- 22 pairs of field channels
- Long communication range
- Dual channel redundancy
- 5-year expected battery life (application dependent)
- Uses dual low cost lithium battery
- Easy scan & link programming option
- Third party approval to EN54-18 and EN54-25

Standards and Approvals

- EN54-18: Input / Output Devices
- EN54-25: Components using radio links and system requirements

Specification

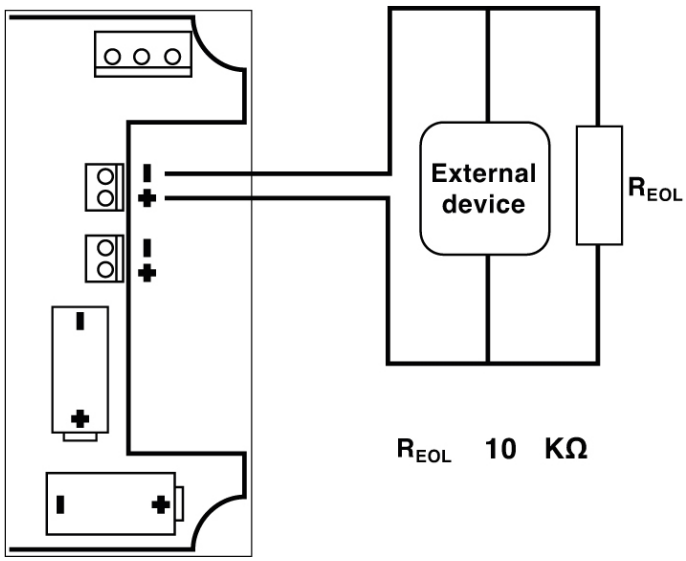
Operating frequency range	868-870 MHz
Max radiated power	14dBm (25mW)
IP rating	65
Weight (without batteries)	233g
Primary and secondary batteries	CR123A (3V and 1.2 Ah)
Dimensions	136mm x 96mm x 57mm
Relay specifications	2A @ 30Vdc
Operating temperature	-10ºC to +55ºC
Max humidity (non condensing)	95% RH
Maximum current available	100mA @ 12 Vdc / 50mA @ 24Vdc
EOL supervision resistor	10K

Order Codes and Options

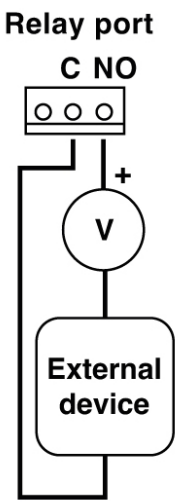
Axis-TMO:	Wireless Single Channel Battery Powered Input Module

Connections and configurations

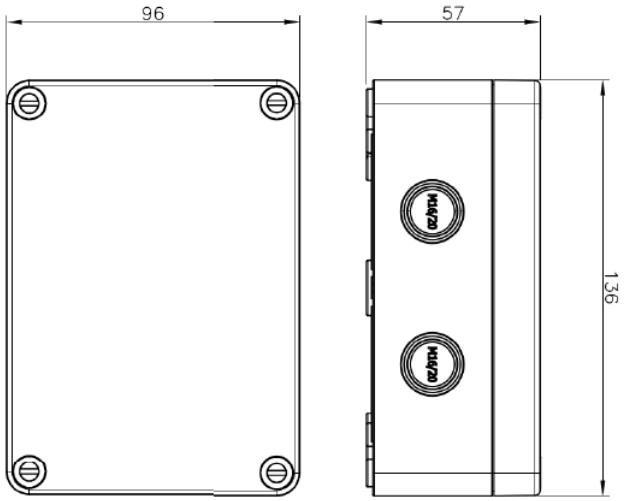
Wiring example for the 12Vdc/24Vdc output.



Wiring example for the relay switch output.



Technical information



Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Advanced

Axis EN

Legacy Wireless Translator Module

The Axis Wireless Translator module allows the Axis Wireless range of intelligent devices to integrate seamlessly on to the Axis hard wired addressable loop. Each Translator module allows the addition of 32 wireless sensors, sounders or output devices. Multiple Translator modules may be put on the same intelligent loop.

The Translator is loop powered, provides full intelligent sensor integration, and allows analogue values, fire and fault information and device type codes to be transmitted to the MxPro 4 series control panels. The translator processes messages received from the wireless devices and transmits information about itself and the devices to the control panel.

Operating on the European recommended frequency of 868 MHz and conforming to EN54-25 its two-way communication provides the highest level of transmission security and reliability.

Programming of the Axis Wireless devices is easily achieved through onboard keys or a PC configuration tool. On-board bi-colour LED's also indicate device status and communication strength which greatly aids commissioning.

The Axis Wireless Translator module is complemented by a range of wireless detectors and ancillary devices including battery operated wall sounders, input and output devices.



Features

- Bi-directional communication protocol between all wireless devices
- Rapid, cost effective installation with minimal disturbance
- Patented double orthogonal antennae provides reliable communication
- Unique channel hopping algorithm virtually eliminates signal corruption and fade
- Up to 32 wireless devices allowed with each translator
- System can be programmed through internal keys or a Windows based PC application

Specification

Loop power supply range	from 15Vdc to 40Vdc
Typical current consumption	20mA (at 24Vdc)
Operating frequency range	868.15 MHz - 869.85 MHz
Radiated power range	5 dBm (3 mW)
Radio signal's modulation type	FSK
Number of frequency channels	7
Communication range with wireless expander device	Up to 600 m (in open space) *
Communication range with other wireless devices	Up to 200 m (in open space) *
Maximum linked wireless devices	32 **
Maximum linked wireless expander devices	7 ***
Temperature range	from –30ºC to +50ºC
Tolerated humidity range (no condensing)	from 5% RH to 90% RH

Dimensions H x W x D mm (without antennas)	120 x 160 x 51
Number of antennas	2
External antenna’s length	74 mm
Weight grams	300
IP Rating	51C

Order Codes and Options

20-VW2W100-ADV:	Wireless Translator Module

Limitations

* Ideal operating range: may vary consistently according to environmental conditions.
** 16 output devices (output modules, sounders...) maximum.
*** 5Axis wireless expanders in cascade connection, maximum.
*** 3Axis wireless expanders connected to another Axis wireless expander, maximum.

Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com
As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Axis EN

Legacy Wireless Expander

The Axis Wireless Expander is an externally powered module that supports the Axis Wireless Translator module. The Expander module provides the ability to communicate with wireless devices over greater distances and in difficult radio environments.

The Axis Wireless system utilizes a unique and powerful 'Microcell' architecture with a capacity of up to 7 Expanders and 32 wireless devices per translator module. Wireless devices can be any combination of detectors, call points, sounders or input and output modules.

Standards and Approvals

- EN54-18:2005
- EN54-25:2008
- Approved by BRE/LPCB and certified by the UAE Civil Defence

Features

- Bi-directional communication protocol between all wireless devices
- Rapid, cost effective installation with minimal disturbance
- Patented double orthogonal antennae provides reliable communication
- Unique channel hopping algorithm virtually eliminates signal corruption and fade
- Up to 7 Expanders allowed with each translator
- Flexible 'Microcell' structure

Specification

Communication range	Up to 600 meters in open space
Communication range with other wireless devices	Up to 200 meters in open space
Operating frequency	868.15 MHz - 869.85 MHz
Modulation type	FSK
Operating frequency channels	7
Radiated power	5 dBm (3 mW) typical
Transmission message period	12 seconds default
Power supply voltage range	From 9 V to 27 V
Current consumption	85 mA @ 12 Vdc
Dimensions H x W x D mm	120 x 160 x 51 w/o antennas
Weight grams	330
Operating temperature range	From -30ºC to +50ºC
Antennas	Two External, in orthogonal configuration
Primary and backup power supply voltage's lower fault threshold	11 +/- 0.5 V
IP Rating	51C

Order Codes and Options

20-SGWE-ADV:	Wireless Expander

Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Axis EN

Legacy Wireless Battery Operated Input Module

The Axis Wireless Battery Powered Input Module allows the switched on/off status of an external device to be transmitted to the control panel through translator/expander's devices.

These module types are intended to interface a control panel and normally open contact devices. The connection between the module and the external device is supervised with the aid of an end of line resistor.

Communication between the input module and the translator/expander's modules is wireless.

Features

- Bi-directional communication protocol between all wireless devices
- Rapid, cost effective installation with minimal disturbance
- Fully Intelligent devices
- Up to 32 wireless devices allowed with each translator
- Fully Monitored Primary and Secondary Power Source

Specification

Operating frequency range	868 MHz
Max radiated power	5 dBm (3 mW)
Radio signal's modulation type	FSK
Operating frequency channels	7
Communication range	Up to 200 m (in open space)
Main battery type	CR123A (3 V & 1.2 Ah)
Backup battery type	CR2032A
Main battery lifespan	** 5 years ***
Secondary battery lifespan	** 2 months ***
Operating temperature	-30ºC to +55ºC
IP Rating	65

Order Codes and Options

20-SGMI200-ADV:	Wireless Battery Powered Input Module

Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Legacy Wireless Battery-Powered Output Module

The Axis Wireless Battery-Powered Output Module allows the activation, deactivation or switching of circuits and Axis devices connected to its outputs.

The activation switching command is sent from the control panel to the module via the Axis wire to wireless translator and other possible wireless expander devices.

Bi-directional communications with the wireless translator is based on a proven protocol and wireless technology and is fast, reliable and provides the highest level of security.

Features

- Bi-directional communication protocol between all wireless devices
- Rapid, cost effective installation with minimal disturbance
- Fully Intelligent devices
- Up to 32 wireless devices allowed with each translator
- Fully Monitored Primary and Secondary Power Source

Specification

Operating frequency range	868 MHz
Max radiated power	5 dBm (3 mW)
Radio signal's modulation type	FSK
Operating frequency channels	7
Communication range	Up to 200 m (in open space)
Main battery type	CR123A (3 V & 1.2 Ah)
Secondary battery type	CR123A (3 V & 1.2 Ah)
Operating temperature	0 ºC - +55ºC (12/24 output at 24 Vdc)
Max tolerated humidity	95% RH
Dimensions H x W x D mm	??
Cable Entry / Knockout Holes Specifications	6 x M16/20
Applicable Wire Gauge Range	0.5 mm² to 2.5 mm²
IP Rating	65

Order Codes and Options

20-SGMCB200-ADV:	Wireless Battery Powered Output Module

Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Advanced

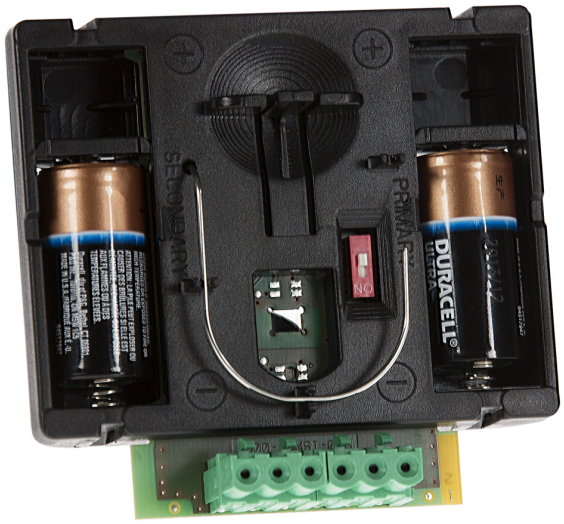
Axis EN

Legacy Wireless Wall Sounder Module

The Wireless Wall Sounder Module is designed for use with the Axis range of modular wall sounders and sounder beacons. When either the conventional sounder or sounder beacon are fitted with this module, they become fully compatible with all Axis wireless translators and expander modules.

When configured onto a compatible translator, the wireless sounder or sounder beacon are fully addressable and benefit from an extensive range of intelligent control, test and monitoring functionality.

The well-proven adaptive radio signal processing algorithms ensure the highest levels of life safety and reliability.



Standards and Approvals

For the wireless interface module (Axis-RWSM) and conventional wall sounder (Axis-CWS):

- EN54-3:2001 +A1:2002 +A2:2006
- EN54-25:2008
- Approved by BRE/LPCB and certified by the UAE Civil Defence

For the wireless interface module (Axis-RWSM) and conventional wall sounder visual (Axis-CWSV):

- EN54-3:2001 +A1:2002 +A2:2006
- EN54-25:2008
- EN54-23:2010
- Approved by BRE/LPCB and certified by the UAE Civil Defence

Features

- Flexible modular design
- Bi-directional wireless communication
- Fits Axis modular wall sounders and sounder beacons
- Utilises standard low-cost lithium battery technology
- Self-optimising wireless communication

Specification

Operating frequency range	868 MHz
Maximum radiated power	14 dBm (25 mW)
Operating frequency channels	7
Communication range	Up to 200 m (in open space)
Battery voltage range	3 V
Battery type	CR123A (3 V & 1.2 Ah) x 2
Radiated power	14 dBm (25 mW)
Operating temperature	-25°C to 70ºC
Relay switching characteristics	I = 2A V = 30 Vdc

Order Codes and Options

Axis-RWSM	Wireless Wall Sounder Module
Axis-CWS	Conventional Wall Sounder
Axis-CWSV	Conventional Wall Sounder Visual

Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Advanced

Axis EN

Legacy Wireless Door Holder

The Wireless Door Holder is compatible with all of the Axis Translator and Expander Modules, enabling it to be easily integrated into a new or existing wireless system, linked to any wired system or even used as a standalone system.

Its fully wireless and battery powered capability means it requires no wiring or power supply, making installation quick, easy and cost effective. The Axis range of wireless devices are third party approved and utilise the latest cutting edge technologies and features. The well-proven adaptive radio signal processing algorithms combined with the latest in magnet technology ensure the highest levels life safety and system reliability.



Features

- Easy and fast installation
- Local door release button
- Utilises standard low cost lithium battery technology
- Bi-directional wireless communication
- Fail safe monitoring to BS 7273 - 4:2015 category A, B and C
- High holding force
- Door closed monitoring option

Standards and approvals

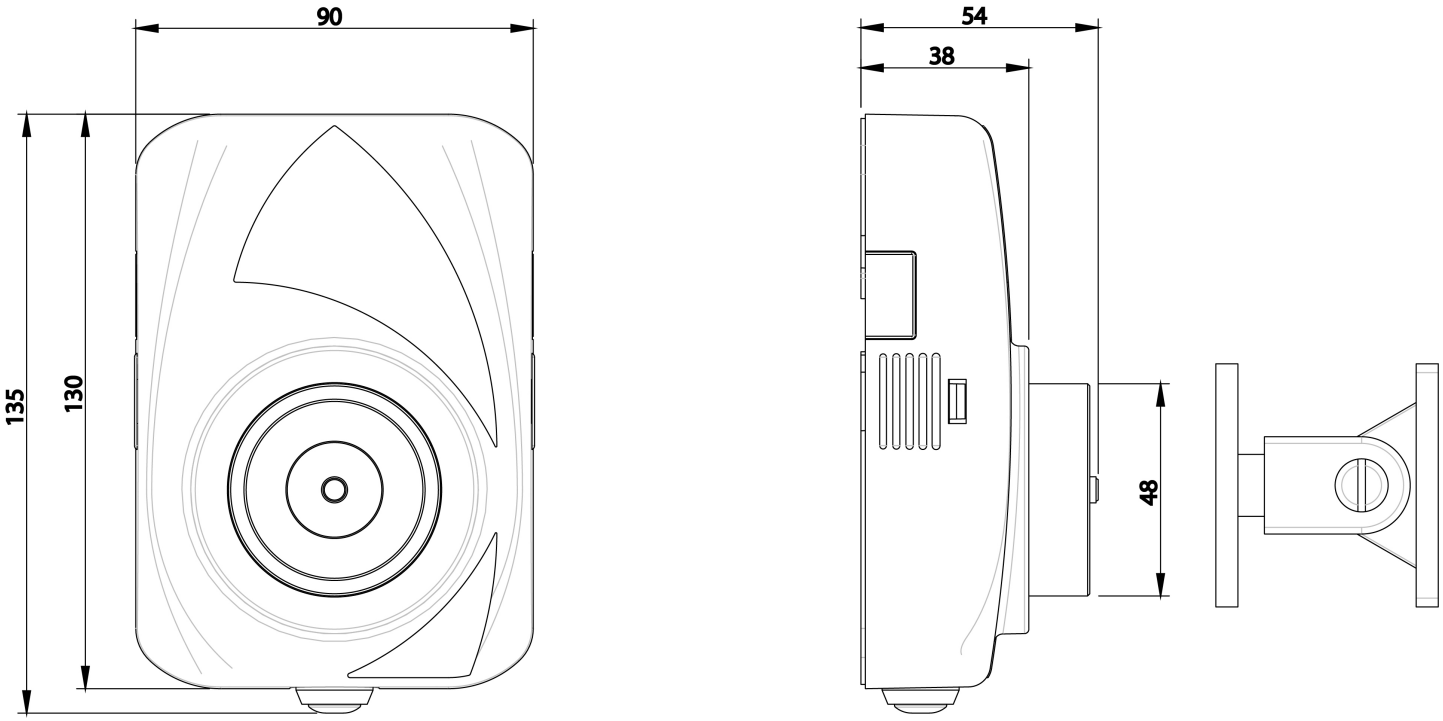
- EN 1155: Electrically Powered Hold Open Devices
- EN 7273-4:2015: Actuation of Release Mechanisms for Doors

Specification

Operating frequency range	868 MHz - 870 MHz
Maximum radiated power	14 dBm (25 mW)
Operating frequency channels	7
Communications range	Up to 200 m (in open space)
Batteries	2 x CR123
Dimensions	90mm x 135mm x 54mm
Weight	740g
Temperature range (no icing)	-10°C to +55°C
Maximum humidity	95%RH
IP rating	30
Holding force	200N

Order Codes and Options

Axis-RDH	Wireless Door Holder



Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Advanced

Axis EN

Legacy Wireless EOL Unit for use with 240V Mains Relay

The wireless battery powered output module allows the activation, deactivation or switching of circuits and devices connected to its outputs. The activation-switching command is sent from the control panel to the module via the wire to wireless translator and other possible wireless expander devices.

Communication between the module and its translator or expander is wireless, via the analogue-intelligent bidirectional protocol.

The wireless battery powered output module is equipped with a bi-colour LED (red/green) that provides visual indication for functional conditions and battery levels.



Features

- Wireless communication between the module and its translator or expander
- Bi-colour LED provides visual indication for functional conditions and battery levels
- Self-optimising wireless communication
- Utilises standard low-cost lithium battery technology

Specification

Operating frequency range	868 MHz
Maximum radiated power	5 dBm (3 mW)
Radio signal's modulation type	FSK
Operating frequency channels	7
Communication range	200 m (in open space)
Battery type	CR123A (3 V & 1.2 Ah) x 2
Maximum current supply	50 mA
Maximum switched voltage	30 Vdc
Maximum switched current	2 A
Maximum switched power	60 W
Operating temperature	-30°C to 55ºC
IP rating	65
Maximum tolerated humidity (non condensing)	95% RH
Relay switching characteristics	I = 2A V = 30 Vdc

Order Codes and Options

Axis-SGMCB-EOLM	Wireless Connection and EOL Unit for use with Mains Relay Unit

Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Axis EN Wireless Sounder-Beacon Base, White or Red LED

The Axis EN Wireless Sounder-Beacon Base is a high performance device, incorporating an EN54-23 compliant VAD used to alert people in the event of a fire. Each unit has an integral moulded base for mounting an wireless detector or a sounder cover if a detector is not required.

The unit has as standard 32 recognised sounder tones (primary and secondary) and 4 levels of volume adjustment, as well as high power/low power visual settings, all of which can be easily configured on site. Powered by standard lithium batteries and utilising well proven adaptive radio signal processing algorithms ensure the highest levels of life safety and reliability.



Features

- Only compatible with Axis EN wireless detectors
- 32 tones settings (primary and secondary for alert and evacuation), selectable via onboard dip switches
- 4 volume levels
- Bi-directional wireless communications
- 22 pairs of field channels
- Dual channel redundancy
- Long communication range
- 5-year battery life (including weekly test)
- Uses standard low-cost lithium battery technology
- Easy scan and link programming option
- Security screw to prevent tampering and unwanted removal
- Red and white blanking cap options

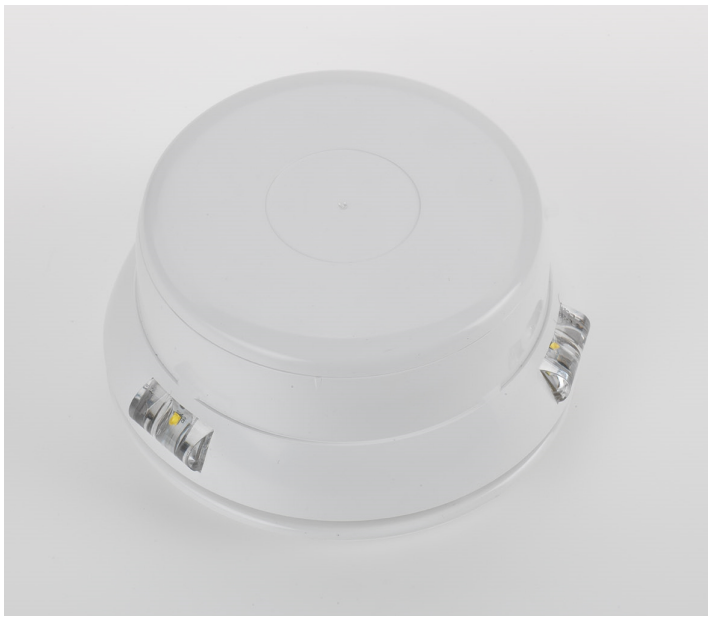
Standards and Approvals

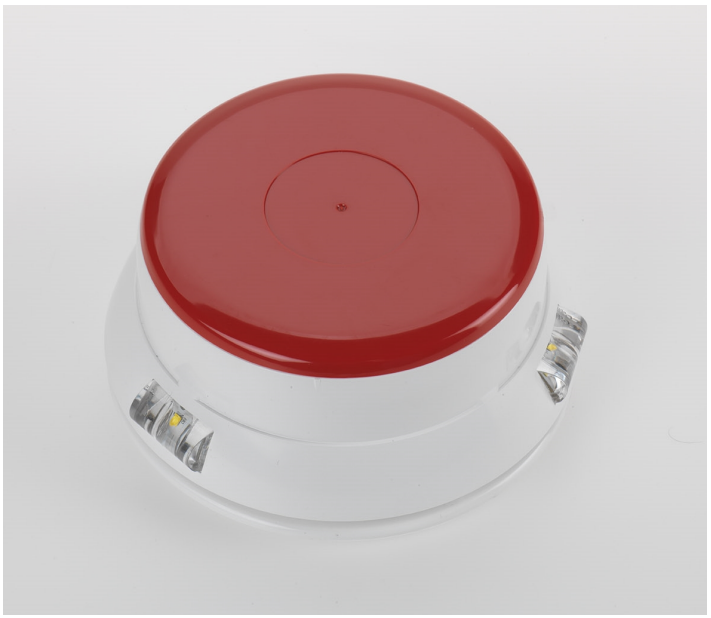
- EN 54-3: Fire alarm devices - Sounders
- EN54-23: Fire alarm devices - Visual alarm devices
- EN 54-25: Components using radio links

Specification

Operating frequency range	868-870 MHz
Max radiated power	14dBm (25mW)
IP rating	21C
Weight (without batteries)	244g
Batteries	2 x CR123A (3V and 1.2Ah)
Battery lifespan (typical)	5 years
Dimensions	129mm x 54mm
Operating temperature	-10°C to +55°C
Max humidity (non condensing)	95% RH
Sound output (typical)	88-91dBA (tone dependent)
2 x EN54-23 compliant visual settings	High power / Low power
High Power	C-3-15 / O-4.6-15
Low Power	C3-10

Blanking cap options





Order Codes and Options

Axis-TSVMB	Axis EN Wireless Sounder-Beacon Base (White LED)
Axis-TSVMBRF	Axis EN Wireless Sounder-Beacon Base (Red LED)
Axis-LID200/W	Axis EN White Blanking Cap
Axis-LID200/R	Axis EN Red Blanking Cap

Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Axis EN

Axis EN Wireless Sounder Base

The Axis EN Wireless Sounder Base is a high performance wireless sounder base that can be used as stand-alone notification device (with a blanking cap) or as a combined detection and alarm device when fitted with an optical, heat or multi detector.

The unit has as standard 32 recognised sounder tones (primary and secondary) and 4 levels of volume adjustment, all of which can be easily configured on site. Powered by standard lithium batteries and utilising well proven adaptive radio signal processing algorithms ensure the highest levels of life safety and reliability.



Features

- Only compatible with Axis EN wireless detectors
- 32 tones settings (primary and secondary for alert and evacuation), selectable via onboard dip switches
- 4 volume levels
- Bi-directional wireless communications
- 22 pairs of field channels
- Dual channel redundancy
- Long communication range
- 5-year battery life (including weekly test)
- Uses standard low-cost lithium battery technology
- Easy scan and link programming option
- Security screw to prevent tampering and unwanted removal
- Red and white blanking cap options

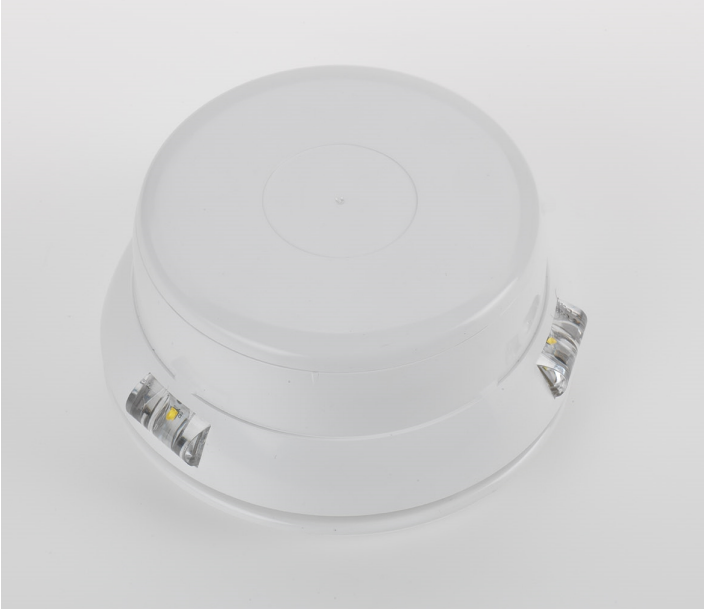
Standards and Approvals

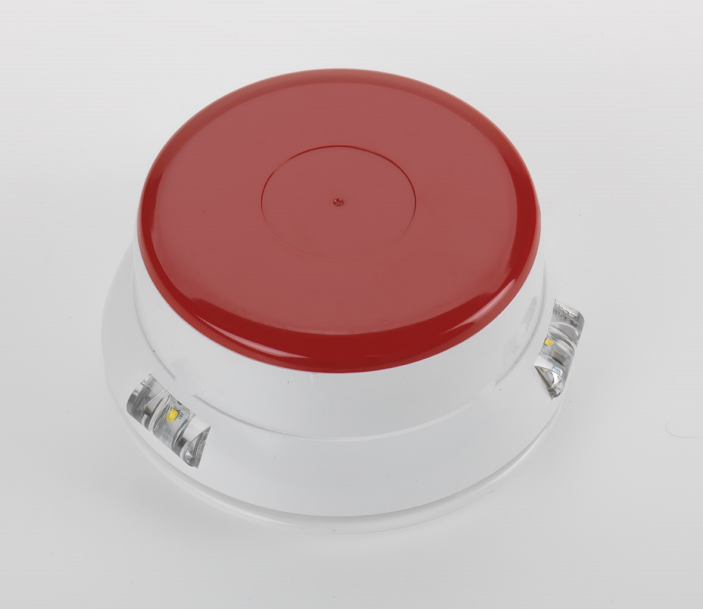
- EN 54-3: Fire alarm devices
- EN 54-25: Components using radio links

Specification

Operating frequency range	868-870 MHz
Max radiated power	14dBm (25mW)
IP rating	21C
Weight (without batteries)	244g
Batteries	2 x CR123A (3V and 1.2Ah)
Battery lifespan (typical)	5 years
Dimensions	129mm x 54mm
Operating temperature	-10°C to +55°C
Max humidity (non condensing)	95% RH
Sound output (typical)	88-91dBA (tone dependent)

Blanking cap options





Order Codes and Options

Axis-TSMB	Axis EN Wireless Sounder Base
Axis-LID200/W	Axis EN White Blanking Cap
Axis-LID200/R	Axis EN Red Blanking Cap

Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

Axis EN

Legacy Wireless Remote Indicator Lamp

The Axis Wireless Remote Indicator Lamp is a programmable output device which can be operated by the control panel in the event of fire, alarm or fault conditions from selected devices.

The activation command is sent from the control panel to the indicator through the Axis wireless translator module.

Bi-directional communications with the wireless translator is based on a proven protocol and wireless technology and is fast, reliable and provides the highest level of security.

The wireless communications operates on the European recommended frequency if 868MHz and conforms to the European standard EN54-25.



Features

- Bi-directional communication protocol between all wireless devices
- Rapid, cost effective installation with minimal disturbance
- Fully Intelligent devices
- Up to 32 wireless devices allowed with each translator
- Fully Monitored Primary and Secondary Power Source

Specification

Operating frequency range	868.15 MHz - 869.85 MHz
Max radiated power	5 dBm (3 mW)
Radio signal's modulation type	FSK
Operating frequency channels	7
Communication range	Up to 200 m (in open space)
Main battery	CR123A (3 V & 1.2 Ah)
Secondary battery	CR123A (3 V & 1.2 Ah)
Main battery lifespan	** 5 years ***
Secondary battery lifespan	** 2 months ***
Operating temperature	0ºC - +55ºC
Max tolerated humidity (no condensing)	95% RH
Dimensions H x W x D mm	87 x 87 x 68
Weight grams	180 w/o batteries
IP Rating	20C

Order Codes and Options

20-SGFI200-S-ADV:	Wireless Remote Indicator Lamp

Limitations

* Ideal operating range: may vary considerably according to environmental conditions.
** When a low battery condition is indicated, both main and secondary batteries must be changed together.
*** These lifespan values refer to the device being programmed with a control signals transmission period of 12 seconds. If the 20-SGVA100-ADV is activated for 30 seconds a week for test, the primary battery's lifespan reduces to 3 years.

Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com
As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.

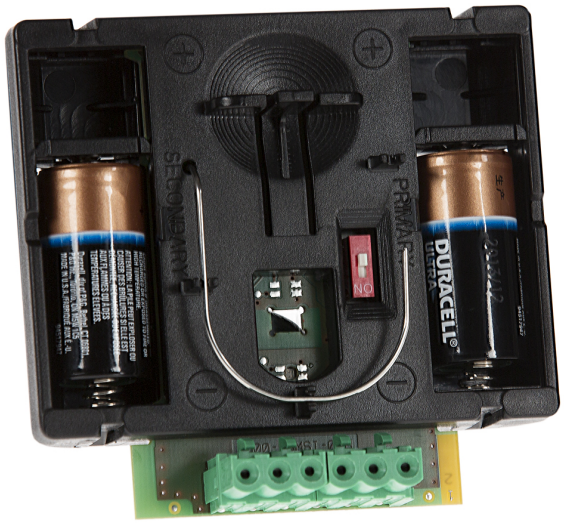
Axis EN

Legacy Wireless Wall Sounder Module

The Wireless Wall Sounder Interface Module is designed for use with the Axis range of modular wall sounders and sounder beacons. When either the conventional sounder or sounder beacon are fitted with this module, they become fully compatible with all Axis wireless translators and expander modules.

When configured onto a compatible translator, the wireless sounder or sounder beacon are fully addressable and benefit from an extensive range of intelligent control, test and monitoring functionality.

The well-proven adaptive radio signal processing algorithms ensure the highest levels of life safety and reliability.



Features

- Flexible modular design
- Approved to EN54-18 and EN54-25
- Bi-directional wireless communication
- Fits Axis modular wall sounders and sounder beacons
- Microphone self-test facility
- Utilises standard low-cost lithium battery technology
- Self-optimising wireless communication

Standards and Approvals

- EN54-18: Input/output devices
- EN54-25: Components using radio links and system requirements

Specification

Operating frequency range	868 MHz - 870 MHz
Maximum radiated power	5dBm (3mW)
Radio signal's modulation type	FSK
Operating frequency channels	7
Communication range	Up to 150m (in open space)
Primary and secondary batteries	CR123A (3V & 1.2Ah)
Weight (without batteries)	110g
Operating temperature (no icing)	-10°C to +55ºC

Order Codes and Options

Axis-RWSM	Wireless Wall Sounder Interface Module

Advanced, The Bridges, Balliol Business Park, Newcastle upon Tyne, NE12 8EW, UK T: +44 (0)345 894 7000 E: enquiries@advancedco.com
W: www.advancedco.com

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.