

# High-Rise Evacuation Alert Systems Unseen. Invaluable.



Helping you meet the highest fire safety standards, now and in the future.

The power behind **your mission**



# Experts in fire safety, so you don't have to be

In recent years, the focus on fire safety in high-rise residential buildings has amplified 10-fold. Now with new building regulations and fire safety guidance in place, navigating and ensuring you comply with these new standards is a top-of-mind challenge for developers, contractors, engineers and end-users alike. Added to that is the requirement to safeguard the residents who call these buildings home.

In an emergency evacuation event, you want to know that you have a robust, professional and compliant system in place to facilitate the safe and orderly evacuation of a building should the 'stay put order' fail. Many buildings still rely on the fire and

rescue services (FRS) going door to door to notify residents to evacuate, losing precious time, putting fire and rescue personnel and residents at greater risk and removing valuable resources from the most important job at hand – getting the fire under control.

That's why Johnson Controls are proud to introduce a High-Rise Evacuation Alert System which is BS 8629:2019 compliant and simple to use, allowing the building to be evacuated zone by zone or floor by floor, dependent on the individual building and situational requirements, thereby saving lives.

## Why choose Johnson Controls for your evacuation alert needs?



### Deliver leading, fully accredited evacuation alert installations

We provide the world's most comprehensive range of fully BS8629:2019 compliant evacuation alert systems designed for high-rise residential and mixed-use developments.

By partnering with us, you receive an end-to-end service, from system design and product provision, through installation, commissioning, service and maintenance, plus ongoing consultation and management of the solution.

### Streamline contracts and complete projects on time, and in-budget

As a manufacturer, product and service provider, we can guarantee product availability and cost efficiencies that ensure your project runs to time and budget.

We are the first national BAFE SP207 accredited evacuation alert specialist to design, install, commission and maintain BSI-compliant evacuation alert systems and ancillaries in high-rise buildings.

### Meet the UK's highest fire safety standards, now and in the future

Our team of 900 specialist BAFE SP207 accredited high-rise fire safety engineers work with you to deliver a seamless end-to-end service.

We partner with customers anywhere in the UK, thereby eliminating the pain of finding a local installer with the right certifications and product access to install effective evacuation alert systems that comply with BS8629:2019.

# Smarter, faster evacuation solutions

The High-Rise Evacuation Alert System is designed and manufactured in the UK by C-TEC, driven by their powerful CAST open protocol technology. The system comprises a range of evacuation alert panels, flat interface units, self-testing evacuation alert sounders, visual indicators and vibrating pillow pads forming part of the range to comply with the Equality Act. Multiple panels can be interconnected for larger sites to provide considerable cost savings on system wiring, and a wide range of flat interface units – single-way and 4- to 8-way can accommodate both new build and retrofit installations. The system also meets stringent EACIE conditions, with panels housed in 'GERDA' manufactured vandal-resistant enclosures and are restricted to FRS personnel via a special key in accordance with STS 205 BR2 and EN 1303.

## Evacuation alert panels



- A range of robust 1 to 48 zone, 1-4 Loop BS 8629:2019 compliant evacuation alert panels
- Bright LED indicators, easy-to-operate evacuation toggle switches and a concealed and intuitive touchscreen powered maintenance interface with user customisable 'slide-in' floor/zone labelling system
- Includes a 5A EN54-4 certified PSU fully compliant with the new safety requirements of EN62368-1 (information and communication technology equipment)
- Powerful 450mA loop drivers
- Space for two 12V 17/22AH VRSLA standby batteries – larger batteries can be accommodated in a separate battery enclosure
- Cabinet measurements (mm): 741 W x 700 H x 200 D. Weight: 69kg. Chassis weighs approximately 9kg

## Single-way flat interfaces\*



- A loop-powered single-circuit flat interface designed to control evacuation alert devices located inside a flat 50mA alarm current that can power up to eight evacuation alert sounders (most applications require one alert sounder allowing additional alert devices to be connected, e.g., for the hard of hearing)
- Designed to be fitted on a standard UK 35mm double-gang back box outside a flat in compliance with the requirements of BS 8629 Clause 8. It includes an onboard short circuit loop isolator
- Sounder circuit wiring monitored for open and short circuit faults (faults indicated on the front of the controller and reported back to the panel)
- Sounder activation and deactivation controlled by the FRS at the panel
- 530uA quiescent
- Polling, sounder circuit active and sounder circuit fault indicators
- Measurements (mm): 144 W x 84 H x 25 D. Weight: 160g. IP40-rated

## 4- to 8-way flat interfaces\* (supplied as a four-circuit unit, extendable to eight circuits)



- The most practical and flexible device interfacing method for most new and refurbishment installations. It is ideally mounted in a riser on each floor.
- A loop-powered 4- to 8-way flat interface unit. It provides four or eight monitored 11.5mA sounder circuits to power up two self-testing evacuation alert sounders per flat. It includes an onboard short circuit loop isolator
- It includes space and connections for an optional fully monitored auxiliary 24V 1A PSU to power additional visual indicators and vibrating pillow pads
- It uses one loop address per four sounder circuits and has a sounder circuit test facility per circuit
- Maintains the independent open and short circuit monitoring of all sounder circuits (faults reported back to the panel)
- Sounder activation and deactivation controlled by the FRS at the panel
- Measurements (mm): 380 W x 235 H x 96 D. Weight: 1.75kg. IP30-rated

\*Single-way and 4- to 8-way flat interfaces are designed to comply with the requirements of BS 8629, EN54-17 & EN54-18

## Self-testing 100dB(A) evacuation alert sounders



- Highly efficient self-testing wall sounders, available in IP21C-rated red or white ABS plastic housings. These emit a clear, concise and recognisable evacuation tone
- Self-test functionality means access to flat only required when a fault is detected, alleviating access issues and substantially reducing service and maintenance costs. These provide verification of a test to a sounder controller and then to the panel
- Impressive 100dB(A) peak sound output at 500-1000Hz, meaning a single sounder mounted over an entrance door should serve most flats
- Low 5.5mA alarm current (no quiescent current)
- Measurements (mm): 108 diameter x 99 deep design

## Self-testing 100dB(A) evacuation alert sounders/visual alarm devices



- Highly-efficient self-testing wall sounders/visual alarm devices, available in IP21C-rated red or white ABS plastic housings, provide an audible and visual indication of an evacuation alert to help satisfy the requirements of the Equality Act
- These emit a clear, concise and recognisable evacuation tone and ultra-bright flashing light
- Sounder self-test functionality (self-test is not available for the visual alarm indicator). These provide verification of a test to a sounder controller and then to the panel
- Impressive 100dB(A) peak sound output at 500-1000Hz, meaning a single sounder mounted over an entrance door should serve most flats. 'W-2.75-9'-rated VAD functionality
- Low 12.2mA (0.5Hz) or 19.5mA (1Hz) alarm current with the visual indicator lit and sounder on maximum (no quiescent current)
- Measurements (mm): 108 diameter x 99 deep design

## Vibrating pillow pads



- C-TEC manufactured warning device, typically placed under a pillow to help the hard of hearing to become aware of an evacuation alert
- Designed to comply with BS 5446-3
- 100mA alarm current
- Connects to a flat interface's sounder circuit via a separately available single-gang locking jack socket when used with a flat interface and power supply
- Pillow pad measurements (mm): 97 diameter x 34 deep design. The lead measures two metres. Weight: 150g. Jack plate socket measurements (mm): 85 W x 85 H x 32 D. Weight: 64g

Contact us at [www.johnsoncontrols.com/en\\_gb/campaigns/High-Rise-Evacuation-Alert-System](http://www.johnsoncontrols.com/en_gb/campaigns/High-Rise-Evacuation-Alert-System) to learn more.

## About Johnson Controls

At Johnson Controls (NYSE:JCI), we transform the environments where people live, work, learn and play. As the global leader in smart, healthy and sustainable buildings, our mission is to reimagine the performance of buildings to serve people, places and the planet.

With a history of more than 135 years of innovation, Johnson Controls delivers the blueprint of the future for industries such as healthcare, schools, data centres, airports, stadiums, manufacturing and beyond through its comprehensive digital offering OpenBlue. With a global team of 100,000 experts in more than 150 countries, Johnson Controls offers the world's largest portfolio of building technology, software and service solutions with some of the most trusted names in the industry.

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