ZETTLER

Marine Visual
Indicating Devices

The power behind **your mission**

Johnson
Controls

Superior technology
for the best protection

Built on 100 years of product innovation

The ZETTLER marine range has been built around MZX Technology, which provides some of the most advanced fire detection capabilities currently available. Developed by integrating many years of product innovation through research and development across Europe, the MZX Technology platform has provided some of the best sensing technologies over the last 100 years and has been a great contributor to early detection and in minimizing false alarms. Our products have been designed to utilize tools and techniques that allow for easy and flexible engineering, configuration, and installation. It has also been responsible for some of the best installation techniques that allow for easy and flexible engineering and installation.

This has resulted in the ZETTLER range being one of the most resilient, reliable, and serviceable systems available with the broadest level of global standards compliance and certifications. With such heritage, ZETTLER experts have developed a new series of marine Visual Indication Devices (VIDs). When combined with our expert knowledge in fire detection technology and systems, this means that we now offer a range of superior devices that are among the most advanced available and that meet all the current standards and requirements.

What you need to know upfront

It is advisable to carry out a fire risk assessment of the area to be covered before applying any system design. This will determine the type and specification of the devices required. Sounders are considered as the most important of all alarm devices. It is a mandatory requirement that sounders are used as an integral part of the fire detection and alarm system.

Visual Indication Devices are generally used as a supplementary indication to raise situational awareness. But, when an event occurs, they cannot be used as the only means to alert people to a potential hazard.

Faster reaction to alarm activation
– 20ms pulse length

Xenon beacons are very effective visual alarm indicators. However, as they require high levels of power, it can be challenging when designing a fire detection system to accommodate their power requirements on a loop in the most effective way.

In the last decade, power-efficient LED technology has advanced significantly and become more prevalent as the majority of manufacturers now utilize this light source in most of their visual indicating devices. Recent research has shown that the effect of LED light on the human eye

is influenced by the light pulse length and this may not be the same as that emitted by a Xenon light. Independent laboratory tests show that the duration of the pulse within visual alarm devices influences the way people react to it. Interestingly, the shorter the pulse duration, the faster the reaction.

Consequently, shorter pulse durations result in improved reactions as attention to the light is drawn sooner. This finding has had a major impact on the global fire detection industry.

The requirement of pulse width not exceeding 20ms for notification appliances was included in the 2016 edition of NFPA 72 – the national fire alarm and signaling code for the United States of America.

The new range of ZETTLER marine devices captures these latest innovations and breakthroughs in light technology to offer LED devices with a pulse duration that does not exceed 20ms. This can have an effect on the human eye that is comparable to Xenon light.

Optimize costs –
more devices on a loop

Power consumption is the biggest consideration when designing a fire detection system

The new visual indication devices from ZETTLER operate with low levels of current consumption, meaning more devices can be used on a loop with the same amount of energy. This makes system design and installation easier.

ZETTLER: easy system design and installation

Less disruption - automatic self-test

High quality and expertise

Regular fire detection system testing is necessary but often disruptive. Our new range of visual identification devices are smart enough to test themselves without causing disruption.

Reflective Light Monitoring (RLM) is used to perform a full self-test of all visual devices. Instant Reflective Sound Monitoring (RSM) enables a full self-test of sounding devices with an activation time of a fraction of a second per device. Such a short testing time minimizes disruption and reduces the desensitization of vessel, oil rig or cruise ship occupants. In turn, this keeps reactivity during a real fire alarm high and reduces the chance of mistaking an actual event.

RSM and RLM measure and test sound and light output. These are not based on electronic measurements or simulations, but on real output. This testing method is highly accurate and reassures the end user by providing a high level of confidence in the performance of the system.

These self-tests can be performed at any time. They can also be programmed to take place at a pre-determined time that suits the vessel occupants. This means it causes no disruption to occupants and normal operations.

Our team has extensive expertise with developing notification devices globally. We have sold millions of devices and seek to constantly improve our product and sales knowledge.

Now, ZETTLER can benefit from this impressive knowledge. Our new alarm devices are made in world-class, globally certified European factories, which ensure the highest levels of quality and environmental health and safety.

P85AIR-M Addressable Wall Sounder VID

Features

- A compact and unobtrusive sounder solution
- Reflective Sound Monitoring (RSM)
- Light is electronically monitored by the control panel
- Automatic self-test
- IP-rated option with deep surface back box
- Power and data from the loop - no additional wiring or power supplies required
- Built-in line isolator
- 16 selectable tones
- Realistic conventional bell tone
- 2 selectable volumes
- 2 selectable flash rates
- Select the tone volume and flash rate using panel configuration software
- Independent addressable control of the sounder and beacon
- Different tones can be used for fire alarm and class change
- Rectangle wall mount for an aesthetically pleasing option
- A locking pin/screw supplied prevents unauthorized removal

	P85AIR-M
Devices per loop	Up to 92(*)
Flash rate	0.5 / 1Hz
Dimensions (W x H x D) mm	105 x 153 x 97 (With IP BackBox)
Sound output at 1m	Up to 100dBA
Body colour	Red
Flash colour	Red
IP code	IP55
Approvals	EN54-3, 17 and MED

(*) Beacon at 0.5Hz with sounder at high volume, 1 A loop. Loop quantities are for guidance only and should be verified with the loop calculator.

Ordering information

Product Code	Description
576.081.013	P85AIR-M Addressable Wall Sounder Beacon VID Weatherproof - Marine

P80SW-M Addressable Wall Sounder

Features

- A compact and unobtrusive sounder solution
- Reflective Sound Monitoring (RSM)
- Automatic self-test
- Indoor version
- Indoor model can be semi-flush or surface mounted including a choice of shallow or deep back box
- Power and data from the loop - no additional wiring or power supplies required
- Built-in line isolator
- 16 selectable tones
- Realistic conventional bell tone
- 2 selectable volumes
- Select the tone volume using panel configuration software
- Different tones can be used for fire alarm and class change
- Rectangle wall mount for an aesthetically pleasing option
- A locking pin/screw supplied prevents unauthorized removal

	P80SW-M
Body	White
IP code	IP21C
Approvals	EN54-3, 17 and MED
Devices per loop	Up to 119(*)
Dimensions (W x H x D) mm	89 x 135 x 40 (Without backBox)
Sound output at 1m	Up to 100 dBA

(*) Beacon at 0.5Hz with sounder at high volume, 1 A loop. Loop quantities are for guidance only and should be verified with the loop calculator.

Ordering information

Product Code	Description
576.081.003	P80SW-M Addressable wall sounder, white - Marine
557.080.008	S-BOXW Shallow Surface Back Box For Indoor Wall Sounder / VID White
557.080.012	D-BOXW Deep Surface Back Box For Indoor Wall Sounder / VID White

P80SB-M & P80AIB-M
Addressable Sounder Base and Addressable Sounder VID Base

Features

- A compact and discreet solution
- One point of installation for detector, sounder , and visual indicator with no additional wiring
- Reflective Sound Monitoring (RSM)
- Light is electronically monitored by the control panel
- Automatic self-test
- Independent addressable control of the sounder and beacon
- Built-in line isolator
- Select the tone, volume, and flash rate using panel configuration software
- Visual indicator with no additional wiring
- 15 selectable tones allows users to select the tone with which they are most familiar
- Realistic conventional bell tone
- 4 selectable volumes
- 2 selectable flash rates
- Different tones can be used for fire alarm and class change
- VIDs and sounders are synchronised over the entire loop
- A locking pin supplied with the base prevents the unauthorized removal of the detector
- Replace legacy LPSB3000 and LPAV3000

	P80SB-M	P80AIB-M
Devices per loop	Up to 231(*)	Up to 149(**)
Flash rate	N/A	0.5 / 1Hz
Dimensions (ØxH) mm	114 x 45	114 x 45
Sound output at 1m	Up to 90 dBA	Up to 90 dBA
Body colour	White	Clear
Flash colour	N/A	Red
IP code	IP21C	IP21C
Approvals	EN54-3, 17 and MED	EN54-3, 17 and MED

(*) Sounder at high volume, 1 A loop.
(**) Beacon at 0.5 Hz with sounder at high volume,
1 A loop. Loop quantities are for guidance only and should be verified with the loop calculator.

Ordering information

Product Code	Description
576.081.002	P80SB-M Addressable base sounder - Marine
576.081.010	P80AIB-M Addressable Base Sounder Beacon VID - Marine

80DSB-M Detector Sounder Base
Detector Activated Sounder Base

Features

- A compact and discreet solution
- One point of installation for detector and sounder with no additional wiring
- Low power with up to 250 sounders on a single loop
- Provides uncompromised system design solutions
- Simple to select the tone and volume using switches
- No special training or tools needed
- 9 selectable tones
- 4 selectable volumes
- A locking pin supplied with the base prevents the unauthorized removal of the detector
- Replaces legacy 802SB and it is compatible with MED approved series detectors.
- Can be used for service and repair or as part of a planned upgrade path

	P80DSB-M
Body	Up to 250(*) backbox
Dimensions (ØxH) mm	114 x 45
Sound output at 1m	Up to 90 dBA
Body colour	White
IP code	IP21C
Approvals	EN54-3, MED

(*) Sounder at high volume, 1 A loop.
Loop quantities are for guidance only and should be verified with the loop calculator.

Ordering information

Product Code	Description
576.081.001	80DSB-M Detector base sounder - Marine
557.080.002	A-CON Conduit Adaptor for Sounder / VID / VAD Bases White

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For more information about ZETTLER
fire detection technology visit:
www.zettlerfire.com

About Johnson Controls

At Johnson Controls, we transform the environments where people live, work, learn and play. From optimizing building performance to improving safety and enhancing comfort, we drive the outcomes that matter most. We deliver our promise in industries such as healthcare, education, data centers, and manufacturing. With a global team of over 100,000 experts in more than 150 countries and over 130 years of innovation experience, we are the power behind our customers' mission. Our leading portfolio of building technology and solutions includes some of the most trusted names in the industry, such as Tyco®, YORK®, *Metasys*®, Ruskin®, Titus®, Frick®, PENN®, Sabroe®, Simplex® and Grinnell®.

For more information, **visit www.johnsoncontrols.com** or follow **@johnsoncontrols** on Twitter.

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