MODULAR AND MULTIFUNCTIONAL SIGNALING DEVICES
ENGINEERED FOR CIVIL AND INDUSTRIAL APPLICATIONS

MORE THAN BRIGHT IDEAS
MLINE

MLINE is a new and unique modular concept developed by Sirena which takes signaling devices to a whole new level delivering users with a customized product tailored for each specific application.

The high optical performances of the beacons, together with the strong sound output of the sounders makes MLINE a high-end range destined to the most demanding applications.

After a series of rigorous tests, MLINE has been granted IP 65 status, a very high rating, especially for sounders, making this product ideal also for outdoor applications.

MLINE has been engineered with a unique modular concept which allows each of the five domes to be mounted on any of the five bases, drastically reducing the number of parts stocked and allowing Professionals to have a more reactive response to the market needs.

Furthermore, the innovative design allows MLINE to become a key player also in Commercial and Civil applications besides more traditional Industrial applications.

DOMES
Sirena has developed five multifunctional domes based on a unique multilevel technology allowing each function of the device to be controlled independently, creating different levels of alarm with one single device.

All MLINE acoustic domes adopt Sirena’s brand new “realTime” technology that allows modifying sounds via dip-switches without the need to power off the device allowing power-on operations on machinery.

Each MLINE component has also been engineered with an easy snap-on technology that allows easy and safe installation procedures also in the most challenging environments.

BASES
SIRENA has developed five unique base shapes with three ranges of voltages (low, mid and high tension) and four color lines, offering a total of 48 different options: a perfect fit for each application.

- The SHALLOW base (available in 12/24V ACDC) is the ideal choice for all flat mounting applications where cabling occurs from the bottom of the signaling device and where a more compact design is required.
- The DEEP base (available in 12/24V ACDC, 30/80V ACDC and 90/240V AC) offers the possibility to install up to two cable glands (IN and OUT) on the sides of the base. This is the ideal choice when cabling from the bottom of the device is not possible or when an “in-series” installation is required.
- The WALL base (available in 12/24V ACDC, 30/80V ACDC and 90/240V AC) is the ideal choice for lateral or wall installations.
- The FLUSH base, (available in 12/24V ACDC, 30/80V ACDC and 90/240V AC) has been designed for flushmounted applications. It guarantees a simple and discrete installation of the device allowing a low visual impact when aesthetic is required like for example in Civil or Commercial installations.
- The DOUBLE base, (available in 12/24V ACDC, 30/80V ACDC and 90/240V AC) has been designed for lateral/wall mounting. It can mount up to two MLINE modules creating unique combinations between visual and acoustic devices whilst multifunctionality of each module is preserved.

THE RIGHT PRODUCT FOR EACH APPLICATION

SIRENA S.p.A.

MORE THAN BRIGHT IDEAS
Four product ranges to guarantee maximum adaptability for the needs of the end-users

MLINE modular range allows installing any of the multifunctional modules on each of the modular bases. The number of applications for MLINE are endless; the high quality of the products, together with the modular and multifunctional technologies allow these products to be installed in Industrial, Civil, Fire Alarm and Commercial sectors.

Sirena understands that each industry follows precise rules and requirements and has created four color lines to better allow end users and professionals to benefit from highly customizable products, to the point that each device can be considered tailor-made for each application.

Sirena’s products are engineered to fulfill end-users requirements, not vice-versa... welcome to the MLINE world...

allGRAY Industrial
allGRAY range has been developed to fulfill the Industrial sector requirements. Its light gray color (RAL 7035) allows to install MLINE products without interfering with the rest of the installation, remaining in line with the typical coloring of connection boxes, enclosures, panels, etc. allowing Professionals to deliver an added value to their job.

allBLACK Industrial
allBLACK range allows to satisfy all those requests from the Industrial sector where black color is required. This range (RAL 9005) allows preserving the aesthetic of existing installations where black color is present. allBLACK is also the ideal choice for Machine Builders looking for a device which is unique, elegant and functional, preserving the added value of their important projects.

allRED Fire Alarm
allRED range has been developed to satisfy all requirements from the Fire Alarm industry where red color is very often a fixed requirement. allRED (RAL 3000) range complements with class and elegance the existing fire alarm installations guaranteeing top functionality and the best aesthetics on the market.

allWHITE Civil
allWHITE range has been developed to specifically satisfy aesthetic requirements from the Civil and Commercial installations industry. These devices are extremely pragmatic, elegant and multifunctional, allowing being discreetly installed increasing aesthetics while preserving all added values created by architects and design teams. Available in white (RAL 9003), this range is also indicated for Machine Builders that see their products destined to civil or commercial environments.
### SIR-E LED

**Multifunctional LED beacon-sounder that guarantees high optical performances as well as a high sound output.** Developed with a multilevel technology, the device allows three separate levels of alarm (warning, alarm 1, alarm 2) controllable via separate electric contacts. SIR-E LED benefits from two light effects (steady, flashing) and 64 different sounds (selectable via 2 dip-switches).

**KEY CHARACTERISTICS**

- **Multifunction:** 3 separate functions (warning, alarm 1, alarm 2) controllable independently via separate electric contacts
- **High sound performances**
  - **First level of alarm:** a powerful triple-flash strobe effect that guarantees catching attention and warns operators of a potential danger or change of operating modes
  - **Second level of alarm:** a powerful triple-flash strobe effect combined with an up to 105 dB electronic sound, ideal for alerting staff of a danger or a serious change of operational circumstances (sound selectable via dip switch “A” out of 32 sounds)
  - **Third level of alarm:** a powerful steady light combined with an up to 105 dB electronic sound, ideal for alerting staff of a permanent change of operational circumstances (sound selectable via dip switch “B” out of 32 sounds)
- **Possibility of lowering the volume:** min 65 dB circa
- **Multitone:** 64 sounds available, from fire alarm to civil tones
- **Four colors available:** red, amber, green and blue
- **SMD LED technology:** longer lifetime and better resistance to vibrations
- **High IP 65 rating:** also excellent for outdoor applications

**MODULARITY**

SIR-E LED can be mounted on all MLINE modular bases that can be selected according to the following characteristics:

- **Shape:** SHALLOW (ideal for flat surface mounting), DEEP (designed for surface mounting with pressure glands), WALL (designed for lateral/wall mounting), FLUSH (designed for flushmounted applications) and DOUBLE (designed for wall mounting of 2 MLINE devices)
- **Tension:** LT 12/24V AC/DC, MT 30/80V AC/DC, HT 90/240V AC
- **Color:** allGRAY (Industrial Light Gray RAL 7035), allBLACK (Industrial Black RAL 9005), allRED (Fire Alarm Red RAL 3000) and allWHITE (Civil/Commercial White RAL 9003)

### FLR S

Multifunctional LED beacon with high optical performances. Developed with a multilevel technology, the device allows three separate lighting effects (steady, rotating, flashing) controllable via separate electric contacts.

**KEY CHARACTERISTICS**

- **Multifunction:** 3 separate functions (Steady, Rotating and Flashing) controllable independently via separate electric contacts
- **High optical performances**
  - **Steady:** a deep and rich light source ideal for attracting attention yet without disturbing
  - **Flashing:** a triple-flash strobe effect ideal for all applications where an immediate attention gain is mandatory
  - **Rotating:** a unique rotating effect which perfectly simulates the traditional rotating beacons yet without moving parts hence enormously enhancing product life time
- **Four colors available:** red, amber, green and blue
- **SMD LED technology:** longer lifetime and better resistance to vibrations
- **High IP 65 rating:** also excellent for outdoor applications

**MODULARITY**

FLR S can be mounted on all MLINE modular bases that can be selected according to the following characteristics:

- **Shape:** SHALLOW (ideal for flat surface mounting), DEEP (designed for surface mounting with pressure glands), WALL (designed for lateral/wall mounting), FLUSH (designed for flushmounted applications) and DOUBLE (designed for wall mounting of 2 MLINE devices)
- **Tension:** LT 12/24V AC/DC, MT 30/80V AC/DC, HT 90/240V AC
- **Color:** allGRAY (Industrial Light Gray RAL 7035), allBLACK (Industrial Black RAL 9005), allRED (Fire Alarm Red RAL 9003) and allWHITE (Civil/Commercial White RAL 9003)
Multifunctional electronic sounder that guarantees a high sound output. Developed with a multilevel technology, the device allows two separate levels of alarm (warning, alarm) controllable via separate electric contact. SIR-E benefits from 64 different sounds (selectable via 2 dip-switches).

**KEY CHARACTERISTICS**

- **Multifunction:** 2 separate functions (warning, alarm) controllable independently via separate electric contacts
- **High sound performances**
  - **First level of alarm:** a powerful up to 105 dB electronic sound, ideal for alerting staff of a danger or a serious change of operational circumstances (sound selectable via dip switch “A” out of 32 sounds)
  - **Second level of alarm:** a powerful up to 105 dB electronic sound, ideal for alerting staff of a permanent change of operational circumstances (sound selectable via dip switch “B” out of 32 sounds)
- **Possibility of lowering the volume:** min. 65 dB circa
- **Multitone:** 64 sounds available, from fire alarm to civil tones
- **Four color available:** gray, white, red and black
- **High IP 65 rating:** also excellent for outdoor applications

**MODULARITY**

SIR-E can be mounted on all MLINE modular bases that can be selected according to the following characteristics:

- **Shape:** SHALLOW (ideal for flat surface mounting), DEEP (designed for surface mounting with pressure glands), WALL (designed for lateral/wall mounting), FLUSH (designed for flushmounted applications) and DOUBLE (designed for wall mounting of 2 MLINE devices)
- **Tension:** LT 12/24V ACDC, MT 30/80V ACDC, HT 90/240V AC
- **Color:** allGRAY (Industrial Light Gray RAL 7035), allBLACK (Industrial Black RAL 9005), allRED (Fire Alarm Red RAL 3000) and allWHITE (Civil/Commercial White RAL 9003)

Flat LED multifunctional signaling device engineered to satisfy the most demanding applications. Developed on the bases of a modular technology, XLF S allows three different light effects (steady, blinking, strobe effect) controllable by separate electric contacts making this device the perfect choice for most applications.

XLF S utilizes a special combination of high-quality polymers with an opaline component which allows maximizing the optical output with an intense but diffused light output. Long-distance visibility is guaranteed by the centrally located intensity point allowing focusing on the device.

**KEY FEATURES**

- **Multifunctional:** 3 levels of alarm (steady, blinking, strobe effect) controllable independently via separate electric contacts
- **High optical performances**
  - **Steady light:** an intense and rich light output that allows gaining public attention yet without being disturbing
  - **Blinking light:** a constant blink ideal for signaling a change of operating conditions
  - **Strobe effect:** 5x flash (strobe effect) ideal for all applications where gaining public attention is a must
- **Four color available:** red, amber, green and blue
- **SMD LED technology:** higher resistance to vibrations allows to further increase product life
- **High IP 65 rating:** also excellent for outdoor applications

**MODULARITY**

XLF S can be mounted on all MLINE modular bases that can be selected according to the following characteristics:

- **Shape:** SHALLOW (ideal for flat surface mounting), DEEP (designed for surface mounting with pressure glands), WALL (designed for lateral/wall mounting), FLUSH (designed for flushmounted applications) and DOUBLE (designed for wall mounting of 2 MLINE devices)
- **Tension:** LT 12/24V ACDC, MT 30/80V ACDC, HT 90/240V AC
- **Color:** allGRAY (Industrial Light Gray RAL 7035), allBLACK (Industrial Black RAL 9005), allRED (Fire Alarm Red RAL 3000) and allWHITE (Civil/Commercial White RAL 9003)
**XLF RGA**

Flat LED multicolor signaling device engineered to satisfy the most demanding applications. Developed on the bases of a modular technology, XLF RGA allows three different colors (red, green, amber) controllable by separate electric contacts making this device the perfect choice for most applications.

XLF RGA utilizes a special combination of high-quality polymers with an opaline component allowing maximizing the optical output with an intense but diffused light output.

**KEY FEATURES**
- **Multicolor:** 3 levels of alarm (red, amber, green) selectable independently via separate electric contacts
- **Multifunction:** 2 separate functions (Steady and Flashing) controllable via dip-switch independently for each channel
- **High optical performances**
  - **Green:** the standard in signaling to indicate “all clear” or “normal operating conditions”
  - **Amber:** the standard for indicating a change of operating conditions or warning of a potential danger
  - **Red:** the standard for indicating a stop of the operating conditions or a real danger
- **SMD LED technology:** higher resistance to vibrations allows to further increase product life
- **High IP 65 rating:** also excellent for outdoor applications

**MODULARITY**

XLF RGA can be mounted on all MLINE modular bases that can be selected according to the following characteristics

- **Shape:** SHALLOW (ideal for flat surface mounting), DEEP (designed for surface mounting with pressure glands), WALL (designed for lateral/wall mounting), FLUSH (designed for flushmounted applications) and DOUBLE (designed for wall mounting of 2 MLINE devices)
- **Tension:** LT 12/24V ACDC, MT 90/240V AC
- **Color:** allGRAY (Industrial Light Gray RAL 7035), allBLACK (Industrial Black RAL 9005), allRED (Fire Alarm Red RAL 3000) and allWHITE (Civil/Commercial White RAL 9003)

**EN54-3 approved multifunctional electronic sirens with excellent acoustic performances.**

Developed on the bases of a modular technology, the FA range allows two levels of alarm powered by 13 EN54-3 approved tones. SIR-E FA allows 12 pre-alarm tones available on the 1st level (selectable via a dip-switch) and 1 alarm steady tone (PFER TOXIC GAS) on the 2nd level. SIR-E LED FA, beside the same characteristics of the SIR-E FA, includes a luminous LED beacon.

**KEY FEATURES**
- **Multifunction:** 2 levels of alarm (pre-alarm, alarm)
- **High acoustic performances**
  - **Pre-alarm:** a powerful electronic tone of up to 105 dB ideal for signaling an imminent danger of a change to the standard conditions (12 EN54-3 approved tones selectable via dip-switch)
  - **Alarm:** a powerful electronic tone of up to 105 dB ideal for signaling a permanent danger or change to the standard conditions (1 EN54-3 approved tone: PFER TOXIC GAS)
- **Multitone:** 13 EN54-3 approved tones
- **High IP 65 rating:** also excellent for outdoor applications

**MODULARITY**

SIR-E FA and SIR-E LED FA can be mounted on all MLINE modular bases that can be selected according to the following characteristics

- **Shape:** SHALLOW (ideal for flat surface mounting), DEEP (designed for surface mounting with pressure glands), WALL (designed for lateral/wall mounting), FLUSH (designed for flushmounted applications) and DOUBLE (designed for wall mounting of 2 MLINE devices)
- **Tension:** LT 12/24V DC
- **Color:** allRED (Fire Alarm Red RAL 3000) and allWHITE (Civil/Commercial White RAL 9003)
SHALLOW

Base designed for surface mounting where cabling occurs from the bottom of the device and where a compact design is required.

**Codes**
- LT Shallow 12/24V AC/DC: 90367, 90344, 90343, 90451

DEEP

Base designed for surface mounting in conjunction with the use of pressure glands. This base allows up to two M20 pressure glands making this solution ideal for series mounting.

**Codes**
- LT Deep 12/24V AC/DC: 90346, 90345, 90452
- MT Deep 30/80V AC/DC: 90432, 90437, 90442, 90455
- HT Deep 90/240V AC: 90369, 90509, 90508, 90458

WALL

Base designed for lateral/wall mounting. Allows installing up to two M20 pressure glands making this product suitable also when it’s not possible to wire the base of the signaling device.

**Codes**
- LT Wall 12/24V AC/DC: 90370, 90348, 90347, 90453
- MT Wall 30/80V AC/DC: 90433, 90438, 90443, 90456
- HT Wall 90/240V AC: 90371, 90511, 90510, 90459

DOUBLE

Base designed for lateral/wall mounting, it can mount up to two MLINE modules creating unique combinations between visual and acoustic devices whilst the multifunctionality of each module is guaranteed.

**Codes**
- LT Double 12/24V AC/DC: 90372, 90374, 90373, 90454
- MT Double 30/80V AC/DC: 90435, 90440, 90445, 90457
- HT Double 90/240V AC: 90512, 90514, 90513, 90460

FLUSH

Base designed for flush-mounted applications. It guarantees a simple and discrete installation of the device allowing a low visual impact when aesthetic is required like for example in Civil or Commercial installations.

**Codes**
- LT Flush 12/24V AC/DC: 90376
- MT Flush 30/80V AC/DC: 90462
- HT Flush 90/240V AC: 90378

**MLINE** One concept | Endless solutions

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