



GENERAL CATALOG



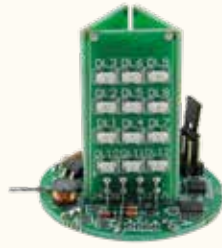
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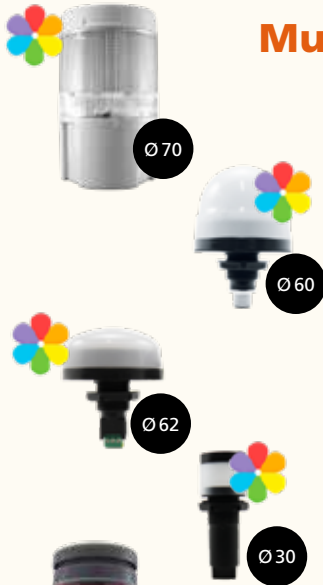
VISUAL AND AUDIBLE SIGNALLING DEVICES

Technical informations



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Multicolor beacons

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Technical information

The **rules** give prominence to **audible and light units** because they allow to:

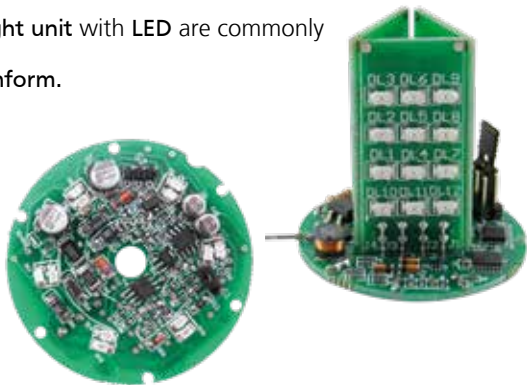
- Increase workers, goods and environment safety
- Simplify surveillance, control and maintenance of equipment and processes
- Facilitate quick status recognition

The **process and personnel tasks** that have to be fulfilled involve **the choice of particular signals**.

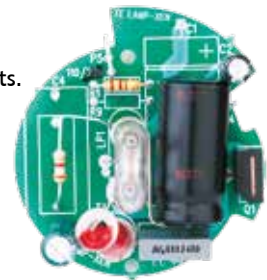
Light signalling

The use of colored signalling units is one of the **most efficient means** of communication.

Steady light unit with LED are commonly used to inform.



Flashing light units with LEDs or strobe are commonly used to draw the attention and communicate alerts.



Specific meanings are attributed to certain colors (see table below) and these colors must be easily identifiable and distinguishable from the background color.

COLOR CODES			
COLOR	MEANING		
	Environmental and personnel safety	Process condition	Device condition
●	DANGER	EMERGENCY	BREAKDOWN
● ●	WARNING / ATTENTION	ABNORMAL	ABNORMAL
●	SAFETY	NORMAL	NORMAL
●	OBLIGATION / ACTION REQUIRED		
○	HAS NO A SPECIFIC MEANING		

The regulations specify that stack lights used for machinery must follow a right sequence from top to the bottom:

Red, yellow, blue, green and **white**.

Audible signalling

The message originate from tones, frequencies and intervals, coming from an audible signalling is used when:

- Optical codes have restrictions
- Draw the personnel attention is required
- Is necessary to have more info due to a critical situation
- Info requires an immediate response
- Info to codify are shorts and easy

Decibel

BEL (B) used to be the official measurement unit of sound and was replaced by Decibel (dB) that is one/tenth of Bel. Decibel is a logarithmic measurement unit and depends by environmental states as frequency, speed, rain, foggy, moisture etc.

Audible signalling must be heard and easily understood from workers and people around the area expected.

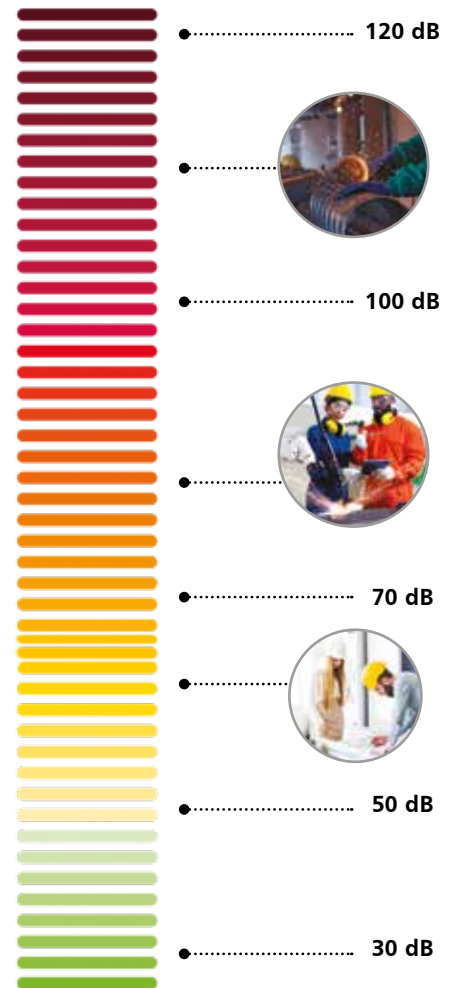
Recognizable

The audible signalling must be heard clearly and be distinguished from other noises or sounds around and have a specific meaning (EN 7731).

Audibility

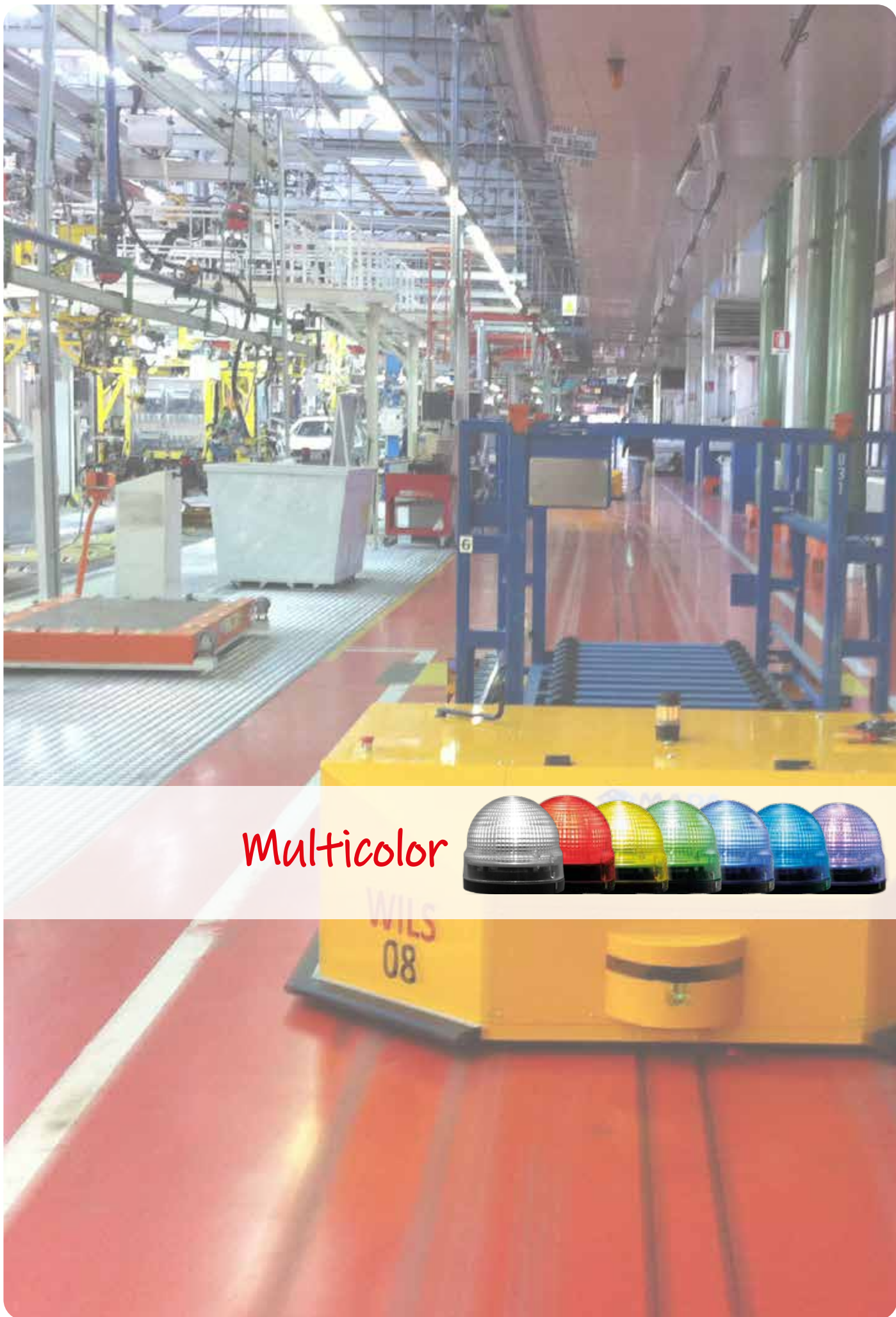
Audible signalling must be heard clearly at distance. The masking threshold must be exceeded. It's obtained when the acoustic pressure level A of the audible unit must be higher than acoustic pressure level of environmental noises at least of 15 dB.

Distance (mt)	Fade out (dB A)
1	- 0
2 (double of 1 meter)	- 6
4 (double of 2 meter)	- 12
8	- 18
16	- 24
32	- 30
64	- 36
128	- 42
256	- 48
512	- 54



How to calculate effective distance

If sound spread in every direction, the level decrease by 6 dB every twice the distance from source (take a look to the theoretical chart on the left).



Multicolor



Multicolor Beacons

370 series



Technical features

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Quadricolor and Tricolor

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Multicolor with acoustic

Pag. 16-19

180 series



Technical features

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Multicolor 7 colors

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Tricolor and Bicolor

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Multicolor with acoustic

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189 series



Technical features

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Multicolor 7 colors

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Tricolor and Bicolor

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300 series



Technical features

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Tricolor

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370 Series

Multicolor beacons



Ø 70

The evolution of industrial signaling: **for each lamp 10 different messages**, some of which are contemporary. In the presence of 2 or more simultaneous alarms, the events **are alternately illuminated in the corresponding colors**.

Light source with LEDs with excellent brightness. Programmable lighting, fixed light, flashing or fast flashing.

Prismatic light modules with diffused lighting. Long life and low consumption.

Technical features



Compliance

Directive CEE 2014/35 Low voltage - Directive CEE 2014/30

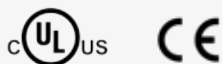
Electromagnetic compatibility - Directive CEE 2006/42 Machinery

Conformity to standards

EN 60947.5.1 - EN 60204.1 - EN 60073 - EN 60529 -

EN 60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Homologations



Material

Polycarbonate (PC)

Operating Voltage

24 V DC

Current consumption

max 110 mA

Protection against electric shocks

class II

Protection degree

IP64 (**IP65 with special seal**. For this version add W to the end of the code)

Resistance to vibrations

2 days min (10 – 150 Hz). According to EN 60068-2-6 e 27

Operating temperature

- 20° C + 50° C

Number of combinable units

max 3 in addition to the Tricolor unit

max 2 in addition to the Quadricolor unit

Connections

with screw terminals and wire clamp section max 1.5 mm² placed inside the terminal unit.

MULTIFUNCTIONAL QUADRICOLOR BEACON

Quadricolor beacon with bright and diffused light.

In the presence of 2 or more alarms, the lamp lights up alternately in the colors corresponding to the event.



1 beacon with neutral lens that switches up to 4 colors

Technical features

Type of optics

Double lens with vertical and horizontal triangular stripes for a correct 360° diffusion

Quadricolor



Number of combinable units:

max 2 in addition to the Quadricolor unit

Functions



Steady, flashing, speedy flashing or alternating flashing light

Operating Voltage

24 V DC/AC

Current consumption

110 mA

COLORS	Support	Codes for ordering	Functions	Operating Voltage
	<input type="radio"/>	370 04Q1B	Steady light Flashing light Multifunctional	24 V DC / AC
	<input checked="" type="radio"/>	370 94Q1B	Steady light Flashing light Multifunctional	24 V DC / AC

Below you can add additional light modules

MULTIFUNCTIONAL TRICOLOR BEACON

Tricolor beacon with bright and diffused light.

In the presence of 2 or more alarms, the lamp lights up alternately in the colors corresponding to the event.



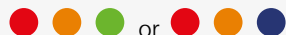
1 beacon with neutral lens that switches up to 3 colors

Technical features

Type of optics

Double lens with vertical and horizontal triangular stripes for a correct 360° diffusion

Tricolor



Number of combinable units:

max 3 in addition to the Tricolor unit

Functions









Steady, flashing, speedy flashing, alternating flashing or rotating light

Operating Voltage

24 V DC/AC

Current consumption

100 mA

COLORS	Support	Codes for ordering	Functions	Operating Voltage
		370 MN4T5B 532		24 V DC / AC
		370 MZ4T5B 532	Steady light Flashing light Rotating light	24 V DC / AC
		370 MN4T5B 632	Multifunction	24 V DC / AC
		370 MZ4T5B 632		24 V DC / AC

Below you can add additional light modules

TRICOLOR BEACON

Tricolor beacon with bright and diffused light.

In the presence of 2 or more alarms, the lamp lights up alternately in the colors corresponding to the event.



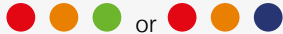
1 beacon with neutral lens that switches up to 3 colors

Technical features

Type of optics

Double lens with vertical and horizontal triangular stripes for a correct 360 ° diffusion

Tricolor



Number of combinable units:

max 3 in addition to the Tricolor unit

Functions









Steady light

Operating Voltage









24 V DC

Current consumption

90 mA

COLORS	Support	Codes for ordering	Functions	Operating Voltage
		370 04T1B 532	Steady light	24 V DC
		370 04T1B 632	Steady light	24 V DC
		370 94T1B 532	Steady light	24 V DC
		370 94T1B 632	Steady light	24 V DC

Above you can add additional light modules

COLORS	Support	Codes for ordering	Functions	Operating Voltage
		370 04T5B 532	Steady light	24 V DC
		370 04T5B 632	Steady light	24 V DC
		370 94T5B 532	Steady light	24 V DC
		370 94T5B 632	Steady light	24 V DC

Below you can add additional light modules

If necessary, complete with mounting accessories → see page 61

370 Series

Multicolor **with sound**

Ø 70



The evolution of industrial signaling: **for each beacon 10 different messages**, some of which are contemporary. In the presence of 2 or more simultaneous alarms, the events are alternately illuminated in the corresponding colors.

Two-channel **acoustic device** with the possibility of remote control.

Programmable lighting, steady light, flashing or fast flashing light. Long life and low consumptions.

Technical features



Compliance

Directive CEE 2014/35 Low voltage - Directive CEE 2014/30
Electromagnetic compatibility - Directive CEE 2006/42 Machinery

Conformity to standards

EN 60947.5.1 - EN 60204.1 - EN 60073 - EN 60529 -
EN 60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Homologations



Material

Polycarbonate (PC)

Operating Voltage

24 V DC

Current consumption

90 mA

Protection degree

IP 64 with sound IP 54

Protection against electric shock

class II

Resistance to vibrations

2 days min (10 – 150 Hz). According to EN 60068-2-6 e 27

Operating temperature

- 20° C + 50° C

Number of combinable units

max 3 in addition to the Tricolor unit
max 2 in addition to the Quadricolor unit

A-weighted sound power measured at one meter

90 dB

Connections

with screw terminals and wire clamp section max 1.5 mm²
placed inside the terminal unit.

MULTIFUNCTIONAL QUADRICOLOR BEACON WITH AUDIO

Quadricolor beacon with bright and diffused light and audible unit.

In the presence of 2 or more alarms, the lamp lights up alternately in the colors corresponding to the event.



1 beacon with neutral lens that switches up to **4 colors**
and with independent **two-channel** independent **acoustic device**

Technical features

Type of optics

Double lens with vertical and horizontal triangular grooves for a correct 360 ° diffusion

Multicolor



Light output

Steady, flashing, fast flashing or alternating flashing light

Operating Voltage

24 V DC

Sound





Pulse or continuous. Remote switching

Current consumption

130 mA

Sound frequency

2900 Hz

COLORS	Support	Codes for ordering	Functions	Operating Voltage	Effective dB
		370 04Q7B	Steady light Flashing light	24 V DC	90 dB
		370 94Q7B	Steady light Flashing light	24 V DC	90 dB

MULTIFUNCTIONAL TRICOLOR BEACON WITH AUDIO

Multifunctional Tricolor beacon with audible unit.

In the presence of 2 or more alarms, the lamp lights up alternately in the colors corresponding to the event.



1 beacon with neutral lens that switches up to 3 colors and with two-channel independent acoustic device

Technical features

Type of optics

Double lens with vertical and horizontal triangular grooves for a correct 360 ° diffusion

Multicolor



Light output

Steady, flashing, fast flashing or alternating flashing or rotating light

Sound

Pulse or continuous. Remote switching

Operating Voltage









24 V DC

Current consumption

120 mA

Sound frequency

2900 Hz

COLORS	Support	Codes for ordering	Functions	Operating Voltage	Effective dB
		370 MN4T7B 532		24 V DC	90 dB
		370 MZ4T7B 532	Steady light Flashing light Rotating light Multifunction	24 V DC	90 dB
		370 MN4T7B 632		24 V DC	90 dB
		370 MZ4T7B 632		24 V DC	90 dB

Below it is possible to add light modules

TRICOLOR BEACON WITH AUDIO

Tricolor beacon with integrated audible unit.

In the presence of 2 or more alarms, the lamp lights up alternately in the colors corresponding to the event.



1 beacon with neutral lens that switches up to **3 colors**
and with **two-channel independent acoustic device**

Technical features

Type of optics

Double lens with vertical and horizontal triangular grooves for a correct 360 ° diffusion

Multicolor



Light output

Steady light

Sound


Pulse or continuous. Remote switching

Operating Voltage

24 V DC

Current consumption

110 mA

COLORS	Support	Codes for ordering	Functions	Operating Voltage	Effective dB
	<input type="radio"/>	370 04T7B 532	Steady light	24 V DC	90 dB
	<input type="radio"/>	370 04T7B 632	Steady light	24 V DC	90 dB
	<input checked="" type="radio"/>	370 94T7B 532	Steady light	24 V DC	90 dB
	<input checked="" type="radio"/>	370 94T7B 632	Steady light	24 V DC	90 dB

Above it is possible to add light modules

180 Series

Multicolor beacons

Ø 60



The **Multicolors** contain **various combinations of colors** in a single device.

Lighting with **high brightness RGB LEDs**, prismatic light sectors with **diffused lighting**, **compactness and flexibility** are the characteristics that make it a **unique product**. Furthermore, it has a **sturdy structure, easy and practical to install**.

Technical features



Compliance

Directive CEE 2014/35 Low voltage - Directive CEE 2014/30
Electromagnetic compatibility - Directive CEE 2006/42 Machinery

Conformity to standards

EN 60947.5.1 - EN 60204.1 - EN 60073 - EN 60529 -
EN 60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Material

Polycarbonate (PC)

Voltage

24 V DC

Current consumption

70 mA

Sound frequency

approx. 4000 Hz

A-weighted sound power detected at one meter

80 dB

Protection degree

IP 54 - clamps IP 20. According to EN 60529
(IP 30 with base type 85-AS, CS, DS, IP 30)

Resistance to vibrations

2 days min (10-150 Hz). According to EN 60068-2-6 e 27

Operating temperature

- 20° C + 40° C

Connections

with screw terminals and wire clamp section max 1.5 mm²

5 poles-M12 connector

The terminal block is placed under the luminous element

MULTICOLOR RGB VISUAL INDICATOR

Multichannel signalling beacon with **7 colors**, bright and diffused light.
External coding control. M12 connector with 5 pins.



1 beacon with neutral lens that alternates up to **7 colors**

Technical features

Type of optics

Double lens with vertical and horizontal triangular stripes for a correct 360 ° diffusion

Multicolor



Light output

Steady






Operating voltage

24 V DC

Current consumption

70 mA



COLORS	Codes for ordering	Functions	Operating voltage	Notes
     	AF4SMBC5	Steady light	24V DC	External coding control. M12 connector with 5 pins

TRICOLOR VISUAL INDICATOR

Signaling beacon **3 colors** with bright and diffused light. Connection by M12 connector with 5 pins.



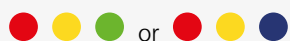
1 beacon with neutral lens that switches **3 colors**

Technical features

Type of optics

Double lens with vertical and horizontal triangular stripes for a correct 360° diffusion

Multicolor



Light output

Steady













Operating voltage

24 V DC

Current consumption

70 mA



COLORS	Codes for ordering	Functions	Operating voltage	Notes
  	AF4T5B542C5	Steady light	24V DC	Connection by M12 connector with 5 pins
  	AF4T5B542	Steady light	24V DC	Connection with terminal block. Complete with base and poles
  	AF4T5B642C5	Steady light	24V DC	Connection by M12 connector with 5 pins
  	AF4T5B642	Steady light	24V DC	Connection with terminal block. Complete with base and poles

BICOLOR VISUAL INDICATOR

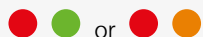
Signalling beacon **2 colors** with bright and diffused light. Connection by M12 connector with 5 pins.

Technical features

Type of optics

Double lens with vertical and horizontal triangular stripes for a correct 360 ° diffusion

Multicolor



Light output

Steady or flashing light

Operating voltage

24 V DC

Current consumption







70 mA



*Mounting accessories available

** Connection with connector

*** Connection with terminal block

COLORS	Codes for ordering	Functions	Operating voltage
 	AF4B32B*	Flashing light	24V DC
 	AF4B32BC5**	Flashing light	24V DC
 	AF4B52B*	Flashing light	24V DC
 	AF4B52BC5**	Flashing light	24V DC
 	BF4B32B***	Flashing light	24V DC
 	BF4B52B***	Flashing light	24V DC



*Mounting accessories available

** Connection with connector

*** Connection with terminal block

COLORS	Codes for ordering	Functions	Operating voltage
 	AF4F32B*	Steady light	24V DC
 	AF4F32BC5**	Steady light	24V DC
 	AF4F52B*	Steady light	24V DC
 	AF4F52BC5**	Steady light	24V DC
 	BF4F32B***	Steady light	24V DC
 	BF4F52B***	Steady light	24V DC

180 Series

Multicolor **with sound**

Ø 60



The **Multicolors** contain **various combinations of colors** and **sounds** in a single beacon.

Lighting with **high brightness RGB LEDs**, prismatic light sectors with **diffused lighting**, **compactness** and **flexibility**.

Furthermore, it has a sturdy structure, **easy and practical to install**.

Technical features



Compliance

Directive CEE 2014/35 Low voltage - Directive CEE 2014/30
Electromagnetic compatibility - Directive CEE 2006/42 Machinery

Conformity to standards

EN 60947.5.1 - EN 60204.1 - EN 60073 - EN 60529 -
EN 60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Material

Polycarbonate (PC)

Operating voltage

24 V DC

Current consumption

70 mA

Sound frequency

approx. 4000 Hz

A-weighted sound power measured at one meter

80 dB

Protection degree

IP 54 - clamps IP 20. According to EN 60529
(IP 30 with base type 85-AS, CS, DS)

Resistance to vibrations

2 days min (10-150 Hz). According to EN 60068-2-6 e 27

Operating temperature

- 20° C + 40° C

Connections

with screw cable clamp section max 1.5 mm²,
M12 connector with 5 or 8 pins, connection cable with 5 pins.
The terminal block is placed under the luminous element

MULTICOLOR RGB VISUAL INDICATOR WITH SOUND

Multichannel signaling beacon with **7 colors**, bright and diffused light. Version with **sound**.
External coding control. M12 connector with 8 pins.



1 beacon with neutral lens that switches up to **7 colors**
with **audible unit**

Technical features

Type of optics

Double lens with vertical and horizontal triangular stripes for a correct diffusion at 360°

Multicolor



Light output

steady or flashing light

Current consumption

70 mA

Versions

light signalling or combined light and acoustic signalling with independent control







Operating voltage

12/24 V dc

Sound

pulse



COLORS	Codes for ordering	Functions	Operating voltage	Sound power	Notes
     	AF4SM7BC5	Steady light Flashing light	12V - 24V DC	80 dB	External coding control. M12 connector with 5 pins.

TRICOLOR VISUAL INDICATOR WITH SOUND

Signaling beacon **3 colors** with bright and diffused light. The **2 tones acoustic device** is essential to attract the attention of the staff. Connection by M12 connector with 5 pins



1 beacon with neutral lens that switches up to **3 colors** with **audible unit**

Technical features

Type of optics

Double lens with vertical and horizontal triangular stripes for a correct diffusion at 360°

Multicolor



Light output

steady or flashing light

Operating voltage

12/24 V dc













Current consumption

70 mA

Sound

Pulse or continuous



COLORS	Codes for ordering	Functions	Operating voltage	Sound power	Notes
  	AF4T7B542	Steady light	12V - 24V DC	80 dB	Control with external coding. Sound combined with red color. Terminal block connecting. Complete with base and pole.
  	AF4T7B542C5	Steady light	12V - 24V DC	80 dB	Control with external coding. Sound combined with red color. M12 connector with 5 pins.
  	AF4T7B642	Steady light	12V - 24V DC	80 dB	Control with external coding. Sound combined with red color. Terminal block connecting. Complete with base and pole.
  	AF4T7B642C5	Steady light	12V - 24V DC	80 dB	Control with external coding. Sound combined with red color. M12 connector with 5 pins.

BICOLOR VISUAL INDICATOR WITH SOUND

Signaling beacon **2 colors** with bright and diffuses light. Version with **sound** necessary to attract the attention of the staff.

Connection by M12 connector with 5 pins.



1 beacon with neutral lens that switches 2 colors with audible unit

Technical features

Type of optics

Double lens with vertical and horizontal triangular stripes for a correct diffusion at 360°

Multicolor



Light output

flashing light, alternating lighting with two simultaneous alarms; steady light.

Operating voltage

24 V dc

Current consumption






70 mA

Sound

pulse or continuous; always connected with

RED color



COLORS	Codes for ordering	Functions	Operating voltage	Sound power	Notes
	AF4B732B	Flashing light	24V DC	80 dB	Simultaneous control between light and sound. Terminal block connection. Complete with base and pole.
	AF4B732BC5	Flashing light	24V DC	80 dB	Simultaneous control between light and sound. Connection with connector.
	AF4B752B	Flashing light	24V DC	80 dB	Simultaneous control between light and sound. Terminal block connection. Complete with base and pole.
	AF4B752BC5	Flashing light	24V DC	80 dB	Simultaneous control between light and sound. Connection with connector.
	BF4B732B	Flashing light	24V DC	80 dB	Simultaneous control between light and sound. Terminal block connection. Complete with base and pole.
	BF4B752B	Flashing light	24V DC	80 dB	Simultaneous control between light and sound. Terminal block connection. Complete with base and pole.
	AF4F732B	Steady light	24V DC	80 dB	Simultaneous control between light and sound. Terminal block connection. Complete with base and pole.
	AF4F732BC5	Steady light	24V DC	80 dB	Simultaneous control between light and sound. Connection with connector.
	AF4F752B	Steady light	24V DC	80 dB	Simultaneous control between light and sound. Terminal block connection. Complete with base and pole.
	AF4F752BC5	Steady light	24V DC	80 dB	Simultaneous control between light and sound. Connection with connector.
	BF4F732B	Steady light	24V DC	80 dB	Simultaneous control between light and sound. Terminal block connection. Complete with base and pole.
	BF4F752B	Steady light	24V DC	80 dB	Simultaneous control between light and sound. Terminal block connection. Complete with base and pole.

189 Series

Multicolor beacons **low profile**

Ø 62



The **Multicolor** beacon has diffused lighting obtained with **high brightness RGB LEDs** and a special arrangement of **prismatic reflectors**. Allows complex communications thanks to the **7 colors** in which lights up: red, yellow, green, white, blue, purple and turquoise. Alternatively, the classic **TRICOLOR** version is available in the combinations: green, yellow, red or blue, yellow, red and the most common. **BICOLOR** in the combinations: red and green or red and yellow.

The multicolor beacons have a **sturdy and compact structure**, many accessories and **easy application**. Connection by **M12 -5 pins cylindrical connector** or **by removal terminal block with 3 pins**.

Technical features

Compliance

Directive CEE 2014/35 low voltage - Directive CEE 2014/30 electromagnetic compatibility - Directive CEE 2006/42 Machinery

Conformity to standards

EN 60947.5.1 - EN 60204.1 - EN 60073 - EN 60529 - EN 60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Material

Polycarbonate (PC)

Operating voltage

24 V DC

Current consumption

70 mA

Protection degree

IP 65 - IP 20 clamps according to EN 60529

Resistance to vibrations

2 days min (10 –150 Hz) according to EN 60068-2-6 e 27

Operating temperature

-20° C/ +40° C

Connections

M12 connector with 5 pins
removal terminal block with 3 pins

MULTICOLOR BEACON WITH LOW PROFILE

Multichannel beacon with **7 colors**, bright and diffused lighting.
Control with external code. M12 connector with 5 pins.



1 beacon that by 7 colors allows several communications

Technical features

Optics

Double lens with vertical and horizontal triangular groove for a correct 360 ° diffusion

Multicolor



Light output

Steady light






Operating voltage

24 V DC

Current consumption

70 mA



COLORS	Code for ordering	Functions	Operating voltage	Notes
    	ENP4SMBC5	Steady light	24V DC	Control with external code. M12 connector with 5 pins

TRICOLOR BEACON WITH LOW PROFILE

Beacon with bright and diffused lighting. Connection by M12 with 5 pins



A beacon particularly suitable for vertical applications in reduced spaces

Technical features

Optics

Double lens with vertical and horizontal triangular stripes for a correct 360° diffusion

Multicolor



Light output

Steady light







Operating voltage

24 V dc

Current consumption

70 mA



COLORS	Codes for ordering	Functions	Operating voltage	Notes
  	ENP4T5B542C5	Steady light	24V DC	Connection by M12 connector with 5 pins
  	ENP4T5B642C5	Steady light	24V DC	Connection by M12 connector with 5 pins

BICOLOR BEACON WITH LOW PROFILE

Beacon with bright and diffused lighting. Connection by removal terminal block with 3 pins

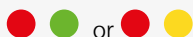


Technical features

Optics

Double lens with vertical and horizontal triangular stripes for a correct 360° diffusion

Multicolor



Light output

Steady or flashing light





Operating voltage

24 V DC





Current consumption

70 mA



COLORS	Codes for ordering	Functions	Operating voltage	Notes
 	ENP4B42B	Flashing light	24V DC	Fixing on Ø 22mm holes connection by removal terminal block with 3 pins
 	ENP4B52B	Flashing light	24V DC	Fixing on Ø 22 mm holes connection by removal terminal block with 3 pins



COLORS	Codes for ordering	Functions	Operating voltage	Notes
 	ENP4FB42B	Steady light	24V DC	Fixing on Ø 22 mm holes connection by removal terminal block with 3 pins
 	ENP4FB52B	Steady light	24V DC	Fixing on Ø 22 mm holes connection by removal terminal block with 3 pins

300 Series

Multicolor beacons

Ø 30



The ideal beacon for small machines. Compact, **multicolor** and high brightness.
 Available in green, yellow and red or blue, yellow and red combinations.
 Lighting with **high brightness LEDs**, steady light and diffused lighting.

Technical features



Compliance

Directive CEE 2014/35 Low voltage - Directive CEE 2014/30
 Electromagnetic compatibility - Directive CEE 2006/42 Machinery

Conformity to standards

EN 60947.5.1 - EN 60204.1 - EN 60073 - EN 60529 -
 EN 60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Material

Polycarbonate (PC)

Operating voltage

24 V DC (+ / - 10%)

Current consumption

30 mA for each color

Protection degree

IP 54

Protection against electric shock

class II

Resistance to vibrations

2 days min (10 – 150 Hz). According to EN 60068-2-6 e 27

Operating temperature

- 20° C + 50° C

Connections

with screw terminals and wire clamp section max 1.5 mm².
 placed at the base of the beacon.

TRICOLOR INDICATOR



1 beacon with neutral lens that switches up to 3 colors

Technical features

Type of optics

Double lens with vertical and horizontal triangular stripes for a correct 360 ° diffusion

Multicolor



Light output









Diffused LED steady light

Operating voltage

24 V DC

Current consumption

30 mA for each color

COLORS	Support	Codes for ordering	Functions	Voltage
		TWR30 LMY532B	Steady light	24 V DC
		TWR30 LMY632B	Steady light	24 V DC
		TWR30 LMY692B	Steady light	24 V DC
		TWR30 LMY932B	Steady light	24 V DC

Direct fixing on Ø 22 mm holes or with base and tube.



Stack lights

Modular stack light

370 serie



Technical features

Pag. 36-37



Terminal unit

Pag. 38-39



Multicolor

Pag. 40



Steady light unit

Pag. 41-43



Flashing light unit

Pag. 44-46



Multifunctional light unit

Pag. 47-48



Light unit with integrate sound

Pag. 49-53



Audible unit

Pag. 54-59



Click Clack- Quick removal system

Pag. 60



Accessories

Pag. 61

370 Series

Modular stack light

Ø 70



Modular stack light with standard diameter (Ø 70 mm) meets the needs of all users. A wide range of modules including **multicolor**, **multifunction** and **combined**. The quality, durability and innovative technical solutions are the basis of its success.

Technical features



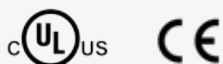
Compliance

Directive CEE 2014/35 Low voltage - Directive CEE 2014/30
Electromagnetic compatibility - Directive CEE 2006/42 Machinery

Conformity to standards

EN 60204.1 - EN 60947.5.1 - EN 60073 - EN 60529 -
EN 60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Homologations



Material

Visual and audio module, cable unit, polycarbonate cap and base.
Anodised aluminium or polycarbonate tube.
Nylon glass fiber fitting for 90 ° fixing.

Operating voltage

250 V max.

Protection degree

IP 64 (IP65 with modules equipped with **gasket**)

Protection against electric shock

Class II, double safety insulation with polycarbonate poles.
Class I with metal poles according to IEC 536.

Operating temperature

- 20° C + 50° C (12V 40°C)

Resistance to vibrations

2 day min (10-150 Hz) according to EN 60068-2-6.

Modules color



Number of combinable units

Max 7 units (excluding the single lamp version which allows a maximum of 2)

Connections

With screw cable clamp, M12 connector 5 and 8 poles, or 5-poles cable

Connection ID Code

Common marking "C" to all signal units. Mark 1 to 7 references for each individual unit from below.

Modular structure

COMBINED MODULES



CAP TO COVER



ACOUSTIC MODULES



LIGHT MODULES LEDs with steady or flashing light, MULTICOLOR or MULTIFUNCTIONAL



TERMINAL UNITS



COMPACT
TERMINAL UNIT

STANDARD

WITH CABLE
GLAND

PRE-WIRED
CONNECTION UNIT

WITH MAGNETIC
SEAL

ACCESSORIES

55P62

54-90

88-22

88-10

54-10

88M10

88F10

88N25



ClickClack
Quick removal unit
Discover more ...

Terminal units

It's the connection unit between modules and the control circuits.
Essential for the correct functioning of the light column.

Standard terminal unit

The connection terminal block allows the assembly of 7 light sectors or alternatively 6 light sectors plus an acoustic module. Possibility of direct installation or on polycarbonate extension pole.

Codes and data for ordering

●	□	90-01
●	□	90-02
●	□	90-07
●	⊕	90M01
●	⊕	90M02
●	⊕	90M07



Technical features

Operating voltage

Max 240V, 35 W

Protection degree

IP 64 (IP65 with modules equipped with gasket)

Protection against electric shock

Class II

Operating temperature

-20/+50 C°

Material

Polycarbonate

Compact terminal unit

Available in versions with terminal block connection or M12 connector with 5 or 8 poles. Direct installation with three types of fixing.

Codes and data for ordering

●	□	93S02
●	□	93S02C5
●	□	93S02C8
●	□	93S07
●	□	93S07C5
●	□	93S07C8



Technical features

Operating voltage

125V with connector, 240V, with terminal block - Max 35 W

Protection degree

IP 64 (IP65 with modules equipped with gasket)

Protection against electric shock

Classe II

Operating temperature

-20/+50 C°

Material

Bayblend

Terminal unit with magnetic seal

Magnetic retainer connection module, facilitates the application, no need to drill to install it. Great flexibility of use, possibility of quick repositioning. Horizontal installation without problems, in this case we recommend the use of a maximum of 5 signal modules (4 light + 1 acoustic)

Codes and data for ordering

●	□	90R01
●	□	90R02
●	□	90R07



Technical features

Operating voltage

Max 240V, 35 W

Protection degree

IP 64 (IP65 with modules equipped with gasket)

Protection against electric shock

Class II

Operating temperature

-20/+50 C°

Material

Polycarbonate

Terminal units

The connection modules are all supplied as standard with cap for the top closure in case the acoustic module is not used.

Terminal unit with cable gland

Connection area with M12 cable gland for lateral cable entry of the connection conductor. The connection terminal block has 8 terminals, allows the assembly of 7 light sectors or 6 light sectors plus an acoustic one. Possibility of direct installation.

Codes and data for ordering

●	□	90-01PC
●	□	90-02PC
●	□	90-07PC



⚙️ Technical features

Operating voltage

Max 240V, 35 W

Protection degree

IP 64 (IP65 with modules equipped with gasket)

Protection against electric shock

Class II

Operating temperature

-20/+50 C°

Material

Polycarbonate

Terminal unit with cable

Connection area with M12 male 5-poles connector complete with cable 30 cm long or with 5-poles cable 50 cm long. 5-poles connector allows the assembly of 4 light sectors or 3 light sectors plus an acoustic one. Possibility of direct installation (available 4 predisposition types with two different centers) or on polycarbonate extension pole. Can be combined with all accessories. Equipped with cap top cover when the acoustic device is not used.

C5 -> 30 cm cable equipped with a 5-pole M12 male connector

CF -> 5-pole cable with a length of 50 cm

Codes and data for ordering

●	□	90-01C5
●	□	90-02C5
●	□	90-02C5

Codes and data for ordering

●	□	90-01CF
●	□	90-02CF
●	□	90-07CF



⚙️ Technical features

Operating voltage

125 V with connector, 240V with cable - Max 35 W

Protection degree

IP 64 (IP65 with modules equipped with gasket)

Protection against electric shock

Classe II

Operating temperature

-20/+50 C°

Material

Bayblend

Quadricolor module



Light module with **bright and diffuse LED**. In the presence of 2 or more alarms, the module lights up alternately in the colors corresponding to the event. It has a lens with horizontal and vertical lines for a correct diffusion at 360°.

Below you can add 2 standard light modules.

Code	Colors	Bulb	Functions	Sound	Operating Voltage	Current consumption
4Q1B 5632		LED	Steady light Flashing light	Pulse or continuous	24V DC-AC	110 mA

Tricolor module



Light module with **bright and diffuse LED**. It has a lens with horizontal and vertical lines for a correct diffusion at 360°.

Types 4T1 ABOVE you can add max 3 modules. Types 4T5 and M4 BELOW it is possible to add max 3 modules

Code	Colors	Bulb	Functions	Sound	Operating Voltage	Current consumption
4T1B 532		LED	Steady light	Pulse or continuous	24V DC	100 mA
4T5B 532		LED	Steady light	Pulse or continuous	24V DC	100 mA
M4T5B 532		LED	Steady light Flashing light Rotating light	Pulse or continuous	24V DC	100 mA
4T1B 632		LED	Steady light	Pulse or continuous	24V DC	100 mA
4T5B 632		LED	Steady light	Pulse or continuous	24V DC	100 mA
M4T5B 632		LED	Steady light Flashing light Rotating light	Pulse or continuous	24V DC	100 mA

Steady light module with LED light

Steady light module with differentiated lighting.

Progressive color variations of the module eliminate the possibility of wrong communications.

Eco-friendly design, recyclability, reusability and reparability.

Technical features

Type of optics

Lens with triangular rifling horizontal and vertical for a correct 360° diffusion

Light source

with 10 high brightness LED

Differentiated lighting: Progressive color variations avoid the possibility of wrong communications.

Bulb

with bayonet connection type BA 15d

Operating voltage







from 24 V to 240 V

Current consumption

max 50 mA






Colored module



Module color	Codes and data for ordering		
	24 V DC-AC	115 V AC	240 V AC
	12-4B	12-4F	12-4G
	13-4B	13-4F	13-4G
	14-4B	14-4F	14-4G
	15-4B	15-4F	15-4G
	16-4B	16-4F	16-4G
	19-4B	19-4F	19-4G

Neutral module



Light color	Codes and data for ordering		
	24 V DC-AC	115 V AC	240 V AC
	6124B	6124F	6124G
	6134B	6134F	6134G
	6144B	6144F	6144G
	6154B	6154F	6154G
	6164B	6164F	6164G

Avoids false signals caused by reflections of sunlight (Phantom effect)

Steady light module with high brightness LEDs

The use of **high brightness LED**, ensure safe communications in all conditions.
 LED technology cancels maintenance, ensures long life and greater safety for operators.
Eco-friendly design, recyclability, reusability and reparability.

Technical features

Type of optics

Lens with triangular rifling horizontal and vertical for a correct 360° diffusion

Light source

with 45 high brightness LEDs

Different light: Progressive color variations of the module avoid the possibility of wrong communications.

Diffused light: The module is illuminated evenly over all its surface.

Bulb

with bayonet connection type BA 15d

Operating voltage







from 12 V to 240 V

Current consumption

max 150 mA

Colored module









Module color	Codes and data for ordering					
	12 / 24 V		115 V AC		240 V AC	
	12H4B	12HD4B*	12H4F	12HD4F*	12H4G	12HD4G*
	13H4B	13HD4B*	13H4F	13HD4F*	13H4G	13HD4G*
	14H4B	14HD4B*	14H4F	14HD4F*	14H4G	14HD4G*
	15H4B	15HD4B*	15H4F	15HD4F*	15H4G	15HD4G*
	16H4B	16HD4B*	16H4F	16HD4F*	16H4G	16HD4G*
	19H4B	19HD4B*	19H4F	19HD4F*	19H4G	19HD4G*

*Diffused lighting

Neutral module**



Light color	Codes and data for ordering					
	12 / 24 V		115 V AC		240 V AC	
	612H4B	612HD4B*	12H4F	612HD4F*	12H4G	612HD4G*
	613H4B	613HD4B*	13H4F	613HD4F*	13H4G	613HD4G*
	614H4B	614HD4B*	14H4F	614HD4F*	14H4G	614HD4G*
	615H4B	615HD4B*	15H4F	615HD4F*	15H4G	615HD4G*
	616H4B	616HD4B*	16H4F	616HD4F*	16H4G	616HD4G*
	619H4B	619HD4B*	19H4F	619HD4F*	19H4G	619HD4G*

*Diffused lighting

**Avoids false signals caused by reflections of sunlight (Phantom effect)

Steady light module with BA 15d lamp holder

Steady light module with lamp holder BA 15d.

It allows the use of LED bulbs in addition to 5 W filament ones. Bulbs not included.

Eco-friendly design, recyclability, reusability and reparability.

Technical features

Type of optics

Lens with triangular rifling horizontal and vertical for a correct 360° diffusion

Light source

LED or incandescent bulb

Bulb







with bayonet connection type BA 15d

Max 5 W







Operating voltage

from 12 V to 240 V



Module color	Codes and data for ordering	
	12-00	12D00*
	13-00	13D00*
	14-00	14D00*
	15-00	15D00*
	16-00	16D00*
	19-00	19D00*

*Diffused lighting

Module color	Codes and data for ordering
	12Y00
	13Y00
	14Y00
	15Y00
	16Y00
	19Y00

Independently powered module. Max 3 stackable modules.

Flashing light module with LED light

Flashing light module that guarantees reliable and unequivocal information over time. LED technology cancels maintenance, ensures long life and greater safety for operators. **Eco-friendly design, recyclability, reusability and reparability.**

Technical features

Type of optics

lens with triangular rifling horizontal and vertical for a correct 360° diffusion

Light source

LEDs bulb

Differentiated light: Progressive color variations of the module delete the possibility of incorrect communications.

Bulb

bayonet connection type BA 15d - Max 5 W

Flashing frequency

approx. 1,4 Hz (84 flashes per minute)

Operating voltage







from 12 V to 240 V

Current consumption

24 V, < 50 mA – 115 V, < 18 mA – 240 V, < 17 mA







Colored module



Module color	Codes and data for ordering				
	12V DC-AC	24V DC-AC	48V AC	115V AC	240V AC
	22-4A	22-4B	22-4D	22-4F	22-4G
	23-4A	23-4B	23-4D	23-4F	23-4G
	24-4A	24-4B	24-4D	24-4F	24-4G
	25-4A	25-4B	25-4D	25-4F	25-4G
	26-4A	26-4B	26-4D	26-4F	26-4G
	29-4A	29-4B	29-4D	29-4F	29-4G

Neutral module



Light color	Codes and data for ordering				
	12V DC-AC	24V DC-AC	48V AC	115V AC	240V AC
	6224A	6224B	6224D	6224F	6224G
	6234A	6234B	6234D	6234F	6234G
	6244A	6244B	6244D	6244F	6244G
	6254A	6254B	6254D	6254F	6254G
	6264A	6264B	6264D	6264F	6264G
	6294A	6294B	6294D	6294F	6294G

Avoids false signals caused by reflections of sunlight (Phantom effect)

High brightness LED **flashing light** module

High brightness LED module, excellent signalling at great distance and in very bright environments.

LED technology cancels maintenance and ensures long life.

Eco-friendly design, recyclability, reusability and reparability.

Technical features

Type of optics

lens with triangular rifling horizontal and vertical for a correct 360° diffusion

Light source

with 45 high brightness LEDs

Differentiated light: Progressive color variations of the module delete the possibility of incorrect communications.

Diffused light: The module is illuminated evenly over all its surface.

Bulb

with bayonet connection type BA 15d

Flashing frequency

about 1,4 Hz (84 flashes per minute)

Operating voltage







from 24 V to 240 V

Current consumption

24 V, 130 mA – 115 V, 25 mA – 240 V 20 mA

Colored module









Module color	Codes and data for ordering					
	24 V DC / AC		115 V AC		240 V AC	
	22H4B	22HD4B*	22H4F	22HD4F*	22H4G	22HD4G*
	23H4B	23HD4B*	23H4F	23HD4F*	23H4G	23HD4G*
	24H4B	24HD4B*	24H4F	24HD4F*	24H4G	24HD4G*
	25H4B	25HD4B*	25H4F	25HD4F*	25H4G	25HD4G*
	26H4B	26HD4B*	26H4F	26HD4F*	26H4G	26HD4G*
	29H4B	29HD4B*	29H4F	29HD4F*	29H4G	29HD4G*

*Diffused lighting

Neutral module**



Light color	Codes and data for ordering					
	24 V DC / AC		115 V AC		240 V AC	
	622H4B	622HD4B*	622H4F	622HD4F*	622H4G	622HD4G*
	623H4B	623HD4B*	623H4F	623HD4F*	623H4G	623HD4G*
	624H4B	624HD4B*	624H4F	624HD4F*	624H4G	624HD4G*
	625H4B	625HD4B*	625H4F	625HD4F*	625H4G	625HD4G*
	626H4B	626HD4B*	626H4F	626HD4F*	626H4G	626HD4G*
	629H4B	629HD4B*	629H4F	629HD4F*	629H4G	629HD4G*

*Diffused lighting

**Avoids false signals caused by reflections of sunlight (Phantom effect)

Flashing module filament lighting

Flashing module with different lighting.

Progressive color variations of the module delete the possibility of wrong communications.

Eco-friendly design, recyclability, reusability and reparability.

Technical features

Type of optics

lens with triangular rifling horizontal and vertical for a correct 360° diffusion

Light source

filament bulb

Bulb

with bayonet connection type BA 15d

Flashing frequency

about 1,4 Hz (84 flashes per minute)

Operating voltage







from 12 V to 240 V

Current consumption

with 5 W bulbs:

24 V, 130 mA – 115 V, 25 mA – 240 V 15 mA



Module color	Codes and data for ordering				
	12V DC-AC	24V DC-AC	48V AC	115V AC	240V AC
	22-12	22-24	22-48	22-15	22-30
	23-12	23-24	23-48	23-15	23-30
	24-12	24-24	24-48	24-15	24-30
	25-12	25-24	25-48	25-15	25-30
	26-12	26-24	26-48	26-15	26-30
	29-12	29-24	29-48	29-15	29-30

Differentiated light, bulbs included.

Multifunctional module LEDs

Programmable LED module, 2 functions: **Flashing or steady** light, ensures safe communications and simple storage management.

Eco-friendly design, recyclability, reusability and reparability.

Technical features

Type of optics

lens with triangular rifling horizontal and vertical for a correct 360° diffusion

Light source

SMD high brightness LEDs

Differentiated light: Progressive color variations of the module delete the possibility of incorrect communications

Diffused light: the module is illuminated evenly over all its surface

Functions

Flashing or steady (to change the function move the internal jumper)

Flashing frequency

From a minimum of 1 Hz to a maximum of 2 Hz

Operating voltage







24 V AC/DC

Current consumption

50 mA (unchanged for all types of lighting)







Colored module



Module color	Codes and data for ordering
	24 V DC-AC
	42-KB
	43-KB
	44-KB
	45-KB
	46-KB
	49-KB

Neutral module



Light color	Codes and data for ordering
	24 V DC-AC
	426KB
	436KB
	446KB
	456KB
	466KB
	496KB

Avoid false alerts caused by reflection of sunlight (Phantom effect).

Multifunctional module high brightness LED

Multifunctional LED module, 7 lighting's types: steady, flash, rotating, fast rotating, flashing, fast flashing, alternating flashing. Maximum flexibility, meets any signalling requirements.

Eco-friendly design, recyclability, reusability and reparability.

Technical features

Type of optics

lens with triangular rifling horizontal and vertical for a correct 360° diffusion

Light source

36 SMD high brightness LEDs

Differentiated light: Progressive color variations of the module delete the possibility of incorrect communications

Diffused light: The module is illuminated evenly over all its surface

Functions

Steady, flashing, flash and rotating (to change the function move the internal jumper)

Flashing frequency

From a minimum of 1 Hz to a maximum of 2 Hz

Rotating frequency

about 1 Hz (60 rotating per minute)

Operating voltage







24 V AC/DC

Current consumption

24 V dc, 55 mA; 24 V ac, 85 mA
(unchanged for all types of lighting)







Colored module



Module color	Codes and data for ordering	
	24 V DC-AC	
	42-24	42D24*
	43-24	43D24*
	44-24	44D24*
	45-H4	45HD4*
	46-H4	46HD4*
	49-H4	49HD4*

Neutral module**



Light color	Codes and data for ordering	
	24 V DC-AC	
	42624	42D24*
	43624	43D24*
	44624	44D24*
	456H4	45HD4*
	466H4	46HD4*
	496H4	49HD4*

* Diffused lighting

**Avoid false alerts caused by reflection of sunlight (Phantom effect).

Quadricolor module with sound

Quadricolor module bright and diffused light with **multichannel acoustic device** with the possibility of remote tone selection.

In the presence of 2 or more alarms the module is illuminated alternately in the corresponding colors.



Technical features

Type of optics

lens with triangular rifling horizontal and vertical for a correct 360° diffusion

Colors



Light source

SMD high brightness LED

Functions

Flashing or steady light

Sound


Pulse or continuous with possibility to change tone remotely

Operating voltage

24 V DC/AC

Current consumption

110 mA

Code	Colors	Bulb	Functions	Sound	Operating Voltage	Current Consumption
4Q7B 5632		LED	Steady light Flashing light	Pulse or continuous	24V DC-AC	110 mA

Tricolor module with sound

Tricolor module, bright and diffused light with **multichannel acoustic device** with the possibility of remote tone selection.

In the presence of 2 or more alarms is illuminated alternately in the colors corresponding to the event.



Technical features



Type of optics

lens with triangular rifling horizontal and vertical for a correct 360° diffusion

Colors



Light source

SMD high brightness LEDs

Functions

Flashing, steady or rotating light

Sound





Pulse or continuous with possibility to change tone remotely

Operating voltage

24 V DC - 24V AC/DC

Current consumption

110 mA

Code	Colors	Bulb	Functions	Sound	Operating Voltage	Current consumption
4T7B 532		LED	Steady light	Pulse or continuous	24V DC	100 mA
M4T7B 532		LED	Steady light Flashing light Rotating light	Pulse or continuous	24V DC / AC	100 mA
4T7B 632		LED	Steady light	Pulse or continuous	24V DC	100 mA
4T7B 632		LED	Steady light Flashing light Rotating light	Pulse or continuous	24V DC / AC	100 mA

Combined visual and acoustic LED module

Combined visual and acoustic module is a multi-purpose product. It's used as last sector or also as single beacon. Multichannel and powerfull acoustic device.

Technical features

Type of optics

lens with triangular rifling horizontal and vertical for a correct 360° diffusion

Light source

SMD high brightness LEDs

Differentiated light: Progressive color variations of the module delete the possibility of incorrect communications.

Diffused light: The module is illuminated evenly over all its surface.

Functions

Flashing, rotating or steady (to change the function move the internal jumper)

Sound

Pulse or continuous with possibility to change tone remotely

Operating voltage

24 V DC







Current consumption







50 / 130 mA (unchanged for all types of lighting)

Steady / Flashing
light



Multifunctional

Module color	Codes and data for ordering		
	85 dB / IP54 Separate control	100 dB / IP64 Separate control	100 dB / IP64 Separate control
	42K7EB	42K7NB	42K7TB
	43K7EB	43K7NB	43K7TB
	44K7EB	44K7NB	44K7TB
	45K7EB	45K7NB	45K7TB
	46K7EB	46K7NB	46K7TB
	49K7EB	49K7NB	49K7TB
	Pulse Sound	Pulse Sound	Continuous Sound

Module color	Codes and data for ordering		
	85 dB / IP54 Separate control	100 dB / IP64 Separate control	100 dB / IP64 Separate control
	42R7EB	42R7NB	42R7TB
	43R7EB	43R7NB	43R7TB
	44R7EB	44R7NB	44R7TB
	45R7EB	45R7NB	45R7TB
	46R7EB	46R7NB	46R7TB
	49R7EB	49R7NB	49R7TB
	Pulse Sound	Pulse Sound	Continuous Sound

Combined visual and acoustic module

The combined visual and acoustic warning device is also widely used as a single warning, in the stack lights can be used only as last sector. Ideal for attracting attention in higher-risk applications.

Technical features

Type of optics

lens with triangular rifling horizontal and vertical for a correct 360° diffusion

Light source

Filament bulb with bayonet connection type BA 15d - 5 W or LED bulbs. The module is without bulb.

Differentiated light: Progressive color variations of the module delete the possibility of wrong communications.

Functions

Steady light

Sound

Pulse or continuous with possibility to change tone remotely







Operating voltage

24 V DC / AC

Current consumption

75/230 mA



Module color	Codes and data for ordering		
	85 dB / IP54 Separate control	85 dB / IP54 Separate control	100 dB / IP64 Separate control
	127EB	127IB	127NB
	137EB	137IB	137NB
	147EB	147IB	147NB
	157EB	157IB	157NB
	167EB	167IB	167NB
	197EB	197IB	197NB

Pulse Sound
Continuous Sound
Continuous Sound

Combined flashing and acoustic module

The **combined flashing** and **acoustic warning device** for general purpose, ideal for drawing attention in higher risk applications. It's also widely used as a single warning device.

Technical features

Type of optics

lens with triangular rifling horizontal and vertical for a correct 360° diffusion

Light source

Filament bulb with bayonet connection type BA 15d
5 W or LED bulbs.

Differentiated light: Progressive color variations of the module delete the possibility of incorrect communications

Flashing frequency

about 1,4 Hz (84 flashes per per minute)

Sound

Pulse or continuous with possibility to change tone remotely

Operating voltage

24 V DC / AC







Current consumption

24 V dc, 75 mA; 24 V ac, 80 mA; 115V ac, 35 mA; 230V ac, 25 mA



Module color

Codes and data for ordering

	85 dB / IP54 Separate control	100 dB / IP64 Separate control	85 dB / IP54 Unique control	85 dB / IP54 Unique control	85 dB / IP54 Unique control
	24 V DC	24 V DC	24 V DC / AC	115 V AC	230V AC
	227EB	227NB	22B73	22F73	22G73
	237EB	237NB	23B73	23F73	23G73
	247EB	247NB	24B73	24F73	24G73
	257EB	257NB	25B73	25F73	25G73
	267EB	267NB	26B73	26F73	26G73
	297EB	297NB	29B73	29F73	29G73

Pulse Sound - bulb included

Audio signal device two tones type 71

The **audio signal device** is used to attract the attention of operators in all high-risk processing.

Technical features

Sound

pulse or continuous. Edit the sound by changing the position of the bridge on the printed circuit

Sound frequency

3300 - 3700 Hz

Signal repetition rate

0,5 Hz

Operating voltage

24 V DC/AC - 115 / 230 AC

Current consumption

24 V DC, 32 mA - 24 V AC, 35 mA

230 V AC, 20mA

Protection degree

type 71, IP30



Support color	Codes and data for ordering		
	85 dB - IP30 24 V DC / AC	80 dB - IP30 24 V DC / AC	85 dB - IP30 115V - 230V AC
●	71-24	71-NB *	71-W0
●	71-3B *	71-PB * *	-
●	71-5B * * *	-	-
●	71T24	-	71TW0

* negative common

** positive common

*** separate power supply

The audio signal device is used as the last module on the stack lights except codes 71-NB and 71-PB which may be mounted in any position.

Audio signal device two tones type 73

The **audio signal device** is used to attract the attention of operators in all high-risk processing.
Good sound power and protection degree.

Technical features

Sound

pulse or continuous. Edit the sound by changing the position of the bridge on the printed circuit

Sound frequency

2900 Hz

Signal repetition rate

0,5 Hz

Operating voltage

24 V DC/AC - 115 / 230 AC





Current consumption

24 V DC, 30 mA - 115 V AC, 25 mA - 230 V AC, 20mA

Protection degree

IP54



Colore supporto	Codici e dati per l'ordinazione	
	90 dB - IP54 24 V DC / AC	90 dB - IP54 115V - 230V AC
	73-24	73-W0
	73-5B	-
	73T24	73TW0
	73T5B	-

The audio signal device is used as the last module on the stack lights.

Audio signal device two tones type 77

The **audio signal device** reinforces the light module in all those high-risk processing where it is necessary to draw the operators' attention.

Technical features

Sound

pulse or continuous. Edit the sound by changing the position of the bridge on the printed circuit

Sound frequency

2600 Hz

Signal repetition rate

0,5 Hz

Operating voltage

24 V DC/AC - 115 / 230 AC



Current consumption

24 V DC, 32 mA - 24 V AC, 35 mA - 230 V AC, 20mA

Protection degree

IP64



Support color	Codes and data for ordering		
	85 dB - IP64 24 V DC / AC	85 dB - IP64 115 V AC	85 dB - IP64 240 V AC
	77-24	77-15	77-30
	77T24	77T15	77T30

The audio signal device is used as the last module on the stack light or as single device.

Audio signal device two tones **high intensity** type 75

Particularly suitable in environments with high background noise.

The **audio signal device** is used to attract the attention of operators in all high-risk processing.

Technical features

Sound

pulse or continuous. Edit the sound by changing the position of the bridge on the printed circuit

Sound frequency

2900 Hz

Signal repetition rate

0,5 Hz

Operating voltage

24 V DC/AC - 115 / 230 AC



Current consumption

24 V DC, 200 mA - 115 V AC, 40 mA - 230 V AC, 60 mA

Protection degree

IP54 / IP64



Support color	Codes and data for ordering			
	100 dB - IP54 24 V DC / AC	95 dB - IP64 115 V AC	95 dB - IP64 115V - 230V AC	95 dB - IP64 240 V AC
	75-24	75-15	75-W0	75-30
	75T24	75T15	75TW0	75T30

The audio signal device is used as the last module on the stack light or as single device.

Audio signal device two tones **high intensity** and **low frequency**, type 75

Particularly suitable in environments with high background noise.

The **audio signal device** is used to attract the attention of operators in all high-risk machining.

Technical features

Sound

pulse or continuous. Edit the sound by changing the position of the bridge on the printed circuit

Sound frequency

600 Hz

Signal repetition rate

0,5 Hz

Operating voltage

24 V DC/AC





Current consumption

24 V, 60 mA

Protection degree

IP64



Support color	Codes and data for ordering	
	100 dB - IP64 24 V DC	
	75-CB	Continuous sound
	75-RB	Pulse sound
	75TCB	Continuous sound
	75TRB	Pulse sound

The audio signal device is used as the last module on the stack light or as single device.

Multitone audio signal device type 75 / 77

The **possibility of diversifying the alarm tones** allows to identify the machine requiring intervention also in environments with high noise pollution.

Equipped with a cap, the audible unit features 16 tones.

Technical features

Sound

pulse or continuous. Edit the sound by changing the position of the bridge on the printed circuit

Sound frequency

2400 / 2600 Hz

Operating voltage

24 V DC/AC



Current consumption

24 V, 40 mA

Protection degree

IP54 / 64



Support color	Codes and data for ordering	
	82 dB - IP64 24 V DC / AC	95 dB - IP54 24 V DC / AC
	77-MB	75-MB
	-	75TMB

The audio signal device 16 Tones is used as the last module on the stack light

Anti-removal block

- It is a screw that blocks rotation preventing **removal without tools**.
- The light column with these characteristics is **supplied already assembled**



Cod. -0Q

Add the code after each selected sector.

Exclusive colors



Terminal unit, base and extension tube
in the color you want!

- To meet your every need we create **mini-series in the colors indicated by the customer**.
- The supply is possible in **all RAL colors**, but some colors require verification. Small differences are possible between the various lots.

Cod. 90-0x/1018

Exclusive color

Cod. 54-0x/1018

RAL 1018 - Add after each selected component

- A simple **rotative motion** permitted a **quick mounting** without any tools.
- **Simplifies the removal** of light units after testing.
Reduces the volume of machines during shipment.
- **Saves** of packaging and transport **costs**.
- Combined with the connector allows a **quick and error free installation**.

Cod. 80-KK

Quick light signal removal system



ClickClack

Accessories

Bases with polycarbonate extension poles



	h 100 mm	h 200 mm	h 300 mm	h 400 mm	h 500 mm
Grey Ø 80	80-01	80-02	80-03	80-04	80-05
Grey Ø 70	54-01	54-02	54-03	54-04	54-05
Light grey Ø 70	54-71	54-72	54-73	54-74	54-75
Black Ø 80	80-10	80-20	80-30	80-40	80-50
Black Ø 80	54-10	54-20	54-30	54-40	54-50



Polycarbonate extension poles

	h 100 mm
Grey	88-01
Light Grey	88-71
Black	88-10

Bases with aluminium extension poles



	h 50 mm	h 100 mm	h 200 mm	h 300 mm	h 400 mm	h 500 mm
Grey Ø 80	-	80M01	80M02	80M03	80M04	80M05
Grey Ø 70	54M0X	54M01	54M02	54M03	54M04	54M05
Light grey Ø 70	54M7X	54M71	54M72	54M73	54M74	54M75
Black Ø 80	-	80M10	80M20	80M30	80M40	80M50
Black Ø 80	-	54M10	54M20	54M30	54M40	54M50

Aluminum poles

h 100 mm	88M10
h 200 mm	88M20
h 300 mm	88M30
h 400 mm	88M40
h 500 mm	88M50
h 1000 mm	88M80

Bases with polycarbonate poles for 90° fixing



Grey Ø 80	80-09
Grey Ø 70	54-09
Light Grey Ø 70	54-79
Black Ø 80	80-90
Black Ø 70	54-90



Bases with metal extension poles for 90° fixing

Grey Ø 80	80M09
Grey Ø 70	54M09
Light Grey Ø 70	54M79
Black Ø 80	80M90
Black Ø 70	54M90

Nylon-glass bracket for 90° fixing



Black	55P62
Light grey	55P262

Metal bases Ø 70 with extension poles for 90° fixing



Pole	
Plastic	54MP9
Metal	54MM9



Black metal base h. 20 | Ø 70

54M65

Click-Clack quick remove device



Black	80-KK
Light Grey	87-KK



Pole for Ø 22 mm hole mounting

88F10	100 mm pole
88F30	300 mm pole



Adapter for Ø 22 mm hole mounting

88A22



Adapter Ø 25 mm for mounting

88A25



Pole height adjustable for wall mounting

88N25



5 poles-M12 female connector

6C500CCF12X5

470 Series

Assembled stack light

Ø 70



Pre-assembled stack light with standard diameter (Ø 70 mm) and reduced modules height.

Available in different colour combinations in compliance with current regulations or in any other composition.

They are equipped with an high power **multi-channel acoustic device** .

Assembled stack lights **facilitate the management of the warehouse and simplify the issue of orders.**

Technical features



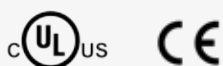
Compliance

Directive CEE 2014/35 Low voltage - Directive CEE 2014/30
Electromagnetic compatibility - Directive CEE 2006/42 Machinery

Conformity to standards

EN 60947.5.1 - EN 60204.1 - EN 60073 - EN 60529 -
EN 60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Homologations



Material

Polycarbonate (PC)

Operating voltage

24 V DC (+/- 10%)

Current consumption

40 mA per unit

Protection degree

IP 64 (if correctly assembled)

Protection against electric shock

class II

Resistance to vibrations

2 days min (10-150 Hz)

Operating temperature

- 20° C + 50° C

Units color



Number of combinable units

max 6 - 5 light modules and 1 audible unit

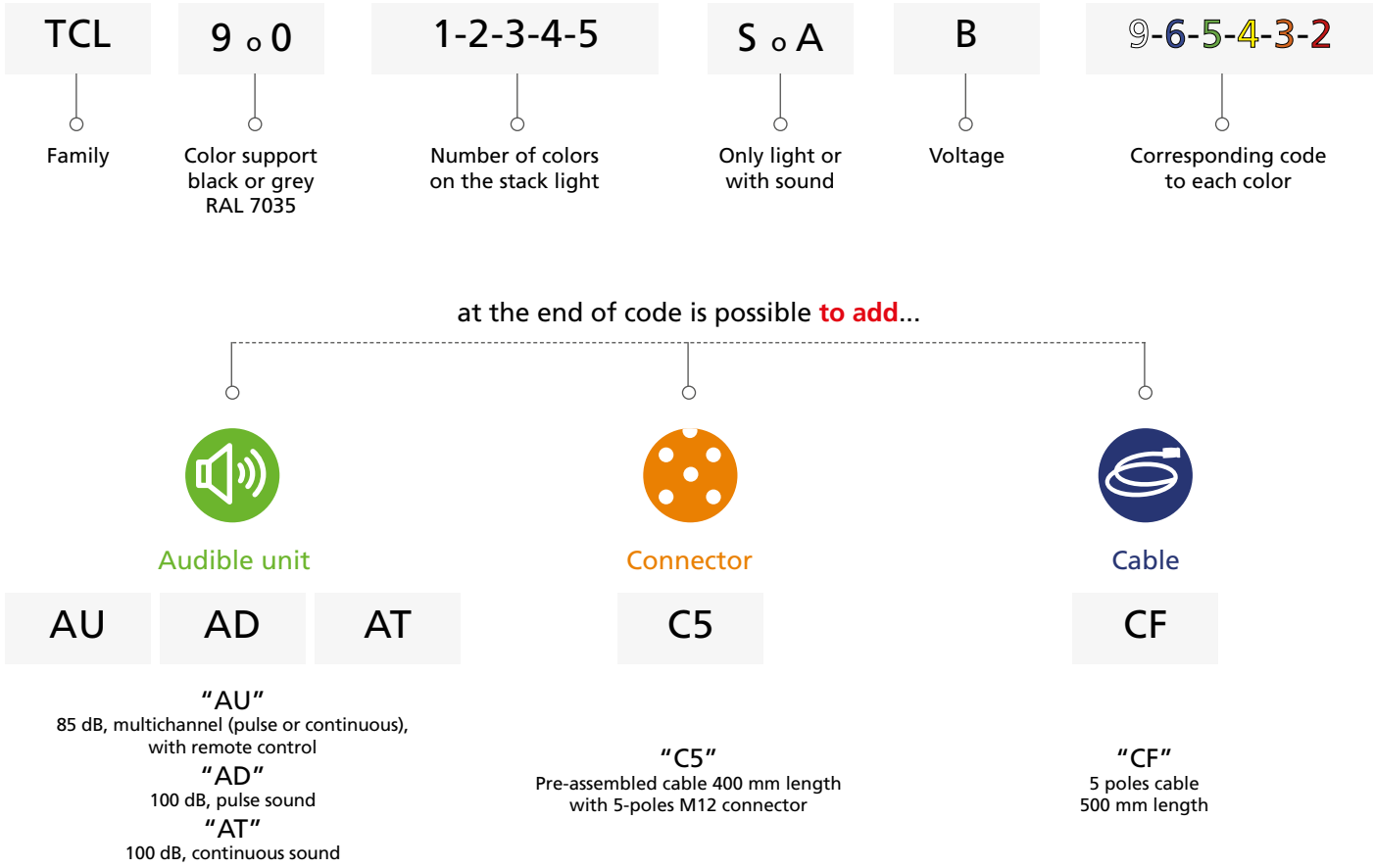
Multichannel audible unit

2 tones, pulse or continuous sound, change tone remotely
Sound power max 100 dB. Current consumption 70 mA

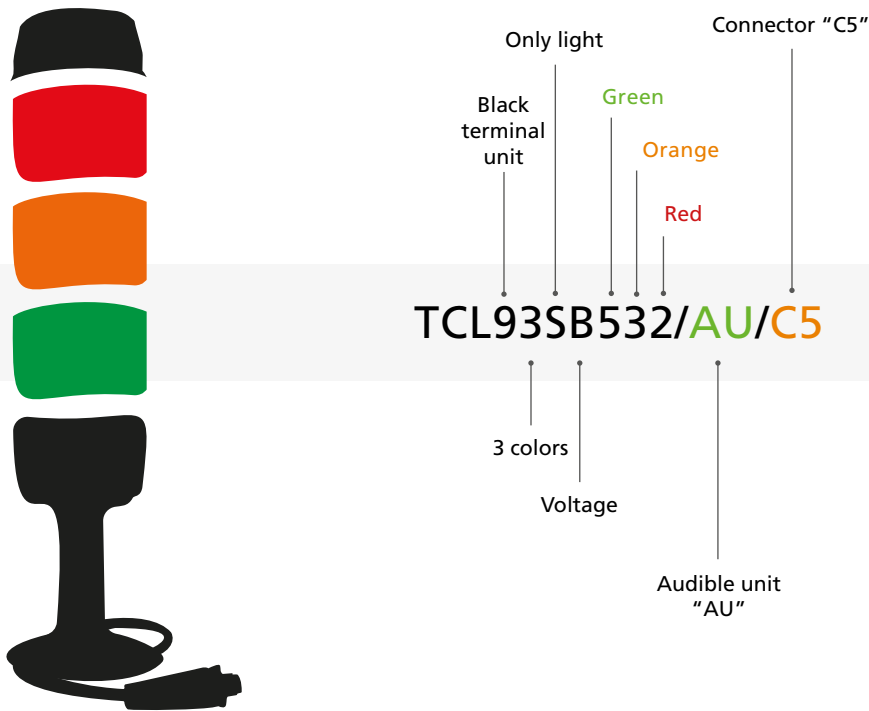
Connections

with screw cable clamp, 5 poles-M12 connector, 5 poles
connection cable

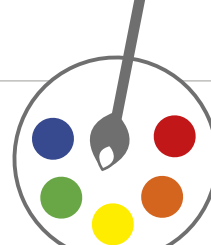
Code structure...



Example of audible stack light with connector...



Choose your stack light...



Codes and data for ordering	Support color	Units color
TCL92SB32	●	● ●
TCL92SB52	●	● ●
TCL93SB532	●	● ● ●
TCL93AB532*	●	● ● ●
TCL94SB5632	●	● ● ● ●
TCL94AB5632*	●	● ● ● ●
TCL95SB95632	●	○ ● ● ● ●
TCL95AB95632*	●	○ ● ● ● ●

Sequence of colours from the bottom
9=white 6=blue 5=green 4=yellow 3=orange 2=red

Available in any other colour combination
* with sound

Codes and data for ordering	Support color	Units color
TCL02SB32	●	● ●
TCL02SB52	●	● ●
TCL03SB532	●	● ● ●
TCL03AB532*	●	● ● ●
TCL04SB5632	●	● ● ● ●
TCL04AB5632*	●	● ● ● ●
TCL05SB95632	●	○ ● ● ● ●
TCL05AB95632*	●	○ ● ● ● ●



Available in any other colour combination
* with sound



Codes and data for ordering	Support color	Units color
TCL62SB32	●	○ ● ●
TCL62SB52	●	○ ● ●
TCL63SB532	●	○ ● ● ●
TCL63AB532*	●	○ ● ● ●
TCL64SB5632	●	○ ● ● ● ●
TCL64AB5632*	●	○ ● ● ● ●
TCL65SB95632	●	○ ● ● ● ● ●
TCL65AB95632*	●	○ ● ● ● ● ●

Available in any other colour combination
* with sound

Version with neutral units and colored lens.
No phantom effect. Eye-catching design.



Compose your stack light

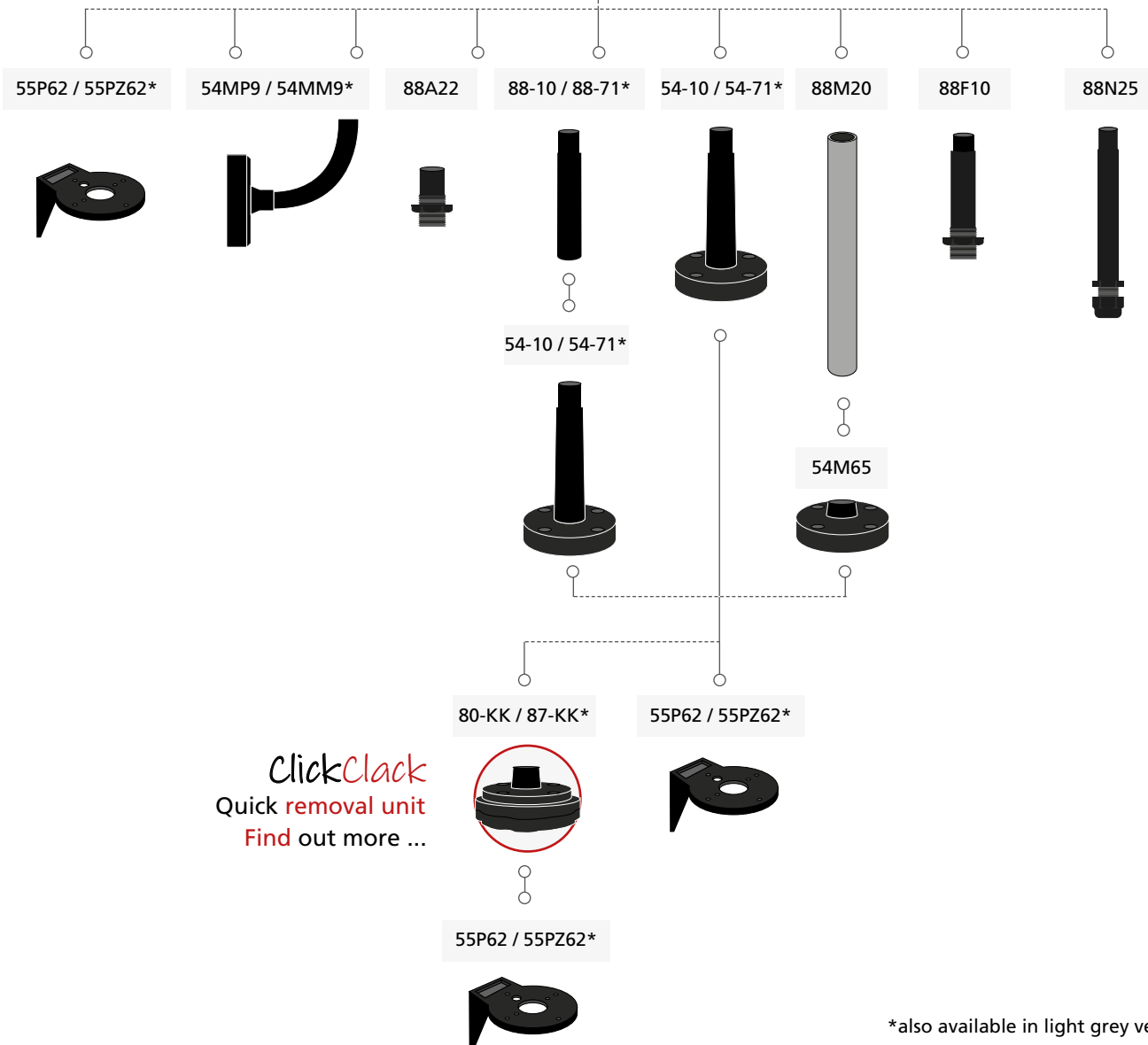


max **5** COLORS
+ SOUND



Audible unit
2 tones with
remote control

Accessories



ClickClack
Quick removal unit
Find out more ...

*also available in light grey version

450 Series

Assembled stack light



Pre-assembled compact stack light with reduced diameter (Ø 45 mm).

Available in different colour combinations in compliance with current regulations or in any other composition.

They are equipped with a high power **multi-channel acoustic device**.

Assembled stack light facilitate the warehouse management and simplify the orders issuing.

Technical features



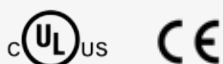
Compliance

Directive CEE 2014/35 Low voltage - Directive CEE 2014/30
Electromagnetic compatibility - Directive CEE 2006/42 Machinery

Conformity to standards

EN 60947.5.1 - EN 60204.1 - EN 60073 - EN 60529 -
EN 60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Homologations



Material

Polycarbonate (PC)

Operating voltage

24 V DC (+/- 10%)

Current consumption

40 mA per unit

Protection degree

IP 64 (if correctly assembled)

Protection against electric shock

class II

Resistance to vibrations

2 days min (10-150 Hz)

Operating temperature

- 20° C + 50° C

Units color



Number of combinable units

max 6 - 5 light modules and 1 audible unit

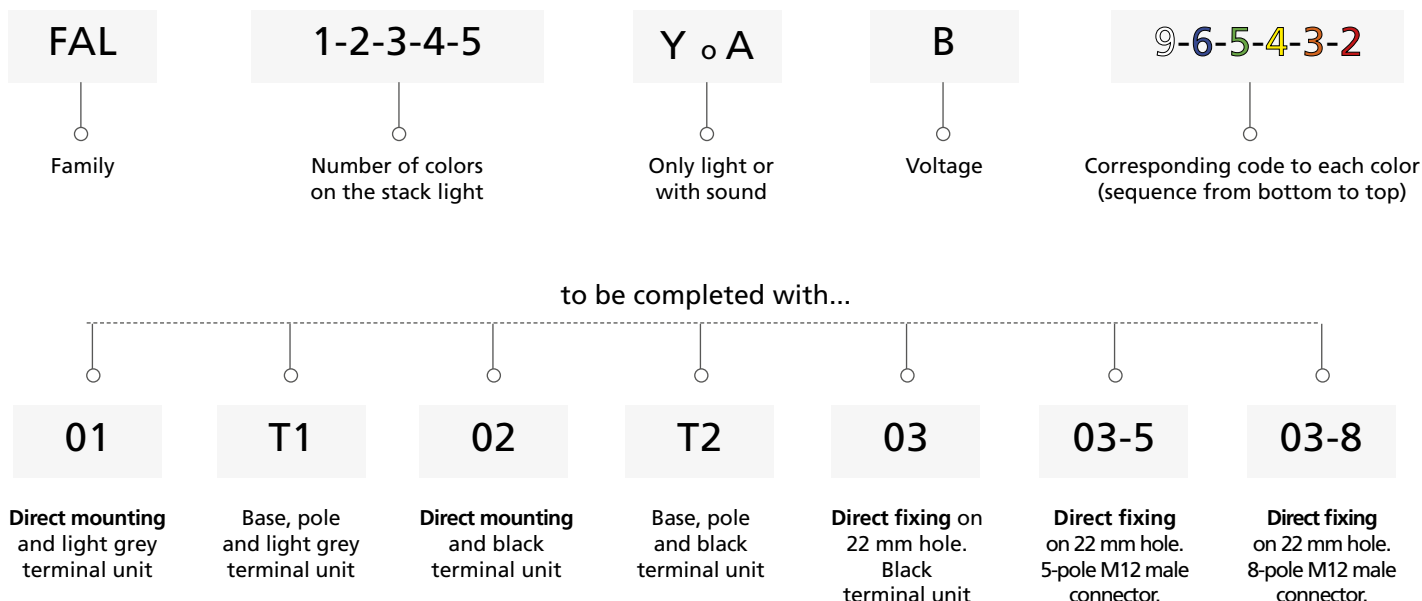
Multichannel alarm

2 tones, pulse or continuous sound. 80 dB at 1 mt distance

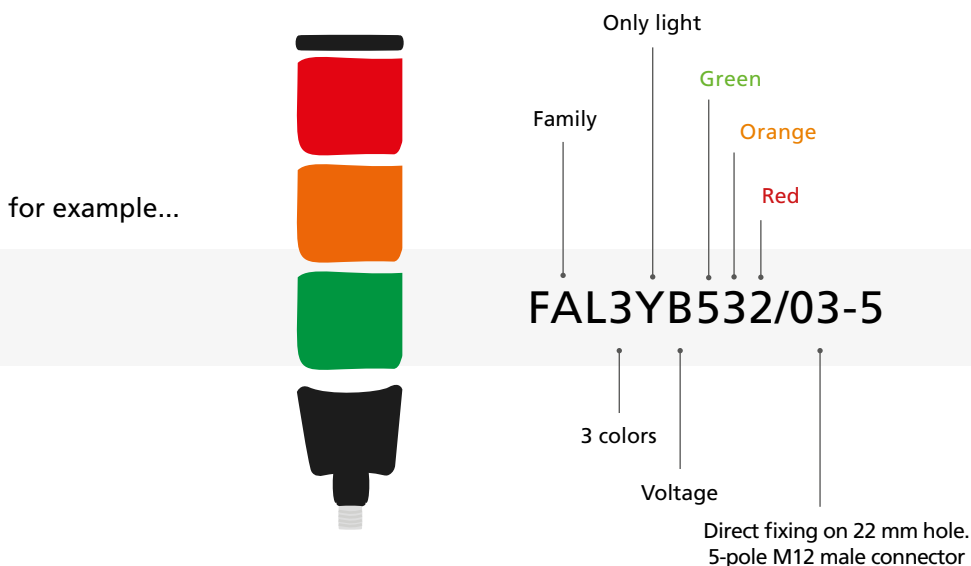
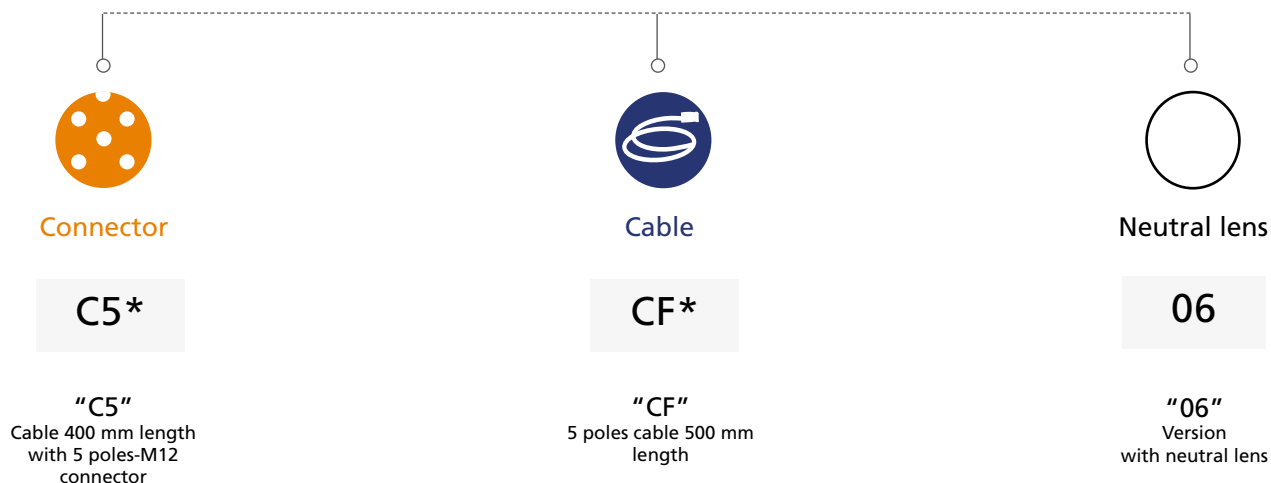
Connections

with screw cable clamp, 5 or 8 poles-M12 connector or 5-poles connection cable

Code structure...



At the end of the code is possible to add...



* It is possible to add C5 and CF codes only to 01, T1, 02, T2, 03 codes.

Customize your stack light...



Sequence of colours from the bottom
 9=white 6=blue 5=green 4=yellow 3=orange 2=red

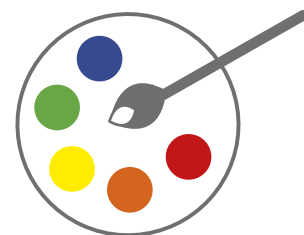
Codes and data for ordering	Units color	Codes and data for ordering	Units color
FAL1YB 2	●	FAL3AB 532*	● ● ●
FAL1AB 3*	●	FAL4YB 5632	● ● ● ●
FAL2YB 52	● ●	FAL4AB 5632*	● ● ● ●
FAL2AB 52*	● ●	FAL5YB 95632	○ ● ● ● ●
FAL3YB 532	● ● ●	FAL5AB 95632*	○ ● ● ● ●

* with sound



Available in any other colour combinations

Version with neutral units and colored lens. No phantom effect. Eye-catching design.



For neutral version add "06" at the end of the code
 Example: FAL3YB 532/06



Compose your stack light



max **5** COLORS
+ SOUND



Audible unit
Pulse or continuous sound
with remote control

Light grey
terminal unit

T1

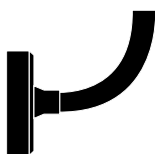


Black
terminal unit

T2

Accessories

54MP9 / 54MM9*



88A22



88-10 / 88-71*



54-10 / 54-71*



88M20



88F10



88N25



54-10 / 54-71*



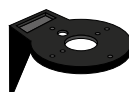
54M65



80-KK / 87-KK*



55P62 / 55PZ62*



55P62 / 55PZ62*



ClickClack
Quick removal unit
Discover more ...

*Also available in light grey version

300 Series **Miniature** **Assembled** stack light

Ø 30



Small and **practical** are suitable for every need and environment.

Easy to install and wire. Available in different **color** combinations and with audible unit.

High-brightness LEDs ensures visibility at a distance and great reliability.

Technical features



Compliance

Directive CEE 2014/35 Low voltage - Directive CEE 2014/30
Electromagnetic compatibility - Directive CEE 2006/42 Machinery

Conformity to standards

EN 60947.5.1 - EN 60204.1 - EN 60073 - EN 60529 -
EN 60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Material

Polycarbonate (PC)

Operating voltage

24 V DC (+/- 10%)

Current consumption

20 mA per unit

Protection degree

IP 54 (if correctly assembled)

Protection against electric shock

class II

Resistance to vibrations

2 days min (10-150 Hz)

Operating temperature

- 20° C + 50° C

Units color



Number of combinable units

max 6 - 5 light modules and 1 audible unit

Audible unit

75 dB at 1 mt distance, continuous sound

Connections

with screw cable clamps (max cable size 1,5 mm²)

Choose your stack light...



Codes and data for ordering	Support color	Units color
TWR30 L1Y2B	●	●
TWR30 L1Y3B	●	●
TWR30 L1Y4B	●	●
TWR30 L1Y5B	●	●
TWR30 L1Y6B	●	●
TWR30 L1Y9B	●	○
TWR30 L2Y52B	●	● ●
TWR30 L3Y532B	●	● ● ●
TWR30 L3A532B*	●	● ● ●
TWR30 L4Y5632B	●	● ● ● ●
TWR30 L4A5632B*	●	● ● ● ●
TWR30 L5Y95632B	●	○ ● ● ● ●
TWR30 L5A95632B**	●	○ ● ● ● ●

Sequence of colours from the bottom
9=white 6=blue 5=green 4=yellow 3=orange 2=red

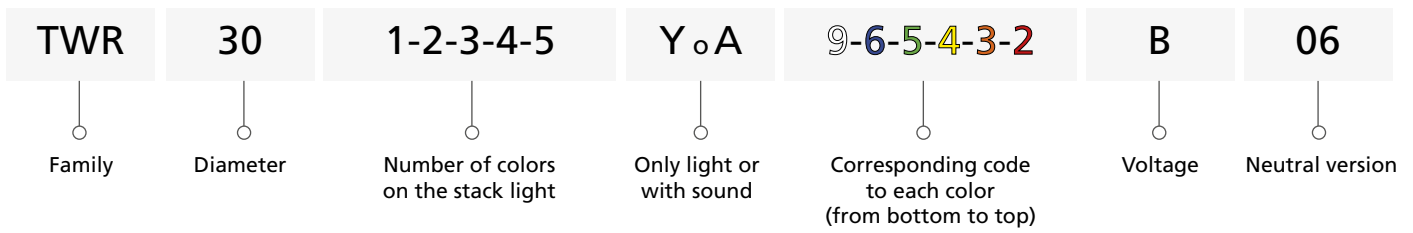
Available in any other colour combination
* with sound / ** with sound combined colour

Codes and data for ordering	Support color	Units color
TWR030 L1Y2B	●	●
TWR030 L1Y3B	●	●
TWR030 L1Y4B	●	●
TWR030 L1Y5B	●	●
TWR030 L1Y6B	●	●
TWR030 L1Y9B	●	○
TWR030 L2Y52B	●	● ●
TWR030 L3Y532B	●	● ● ●
TWR030 L3A532B*	●	● ● ●
TWR030 L4Y5632B	●	● ● ● ●
TWR030 L4A5632B*	●	● ● ● ●
TWR030 L5Y95632B	●	○ ● ● ● ●
TWR030 L5A95632B**	●	○ ● ● ● ●



Available in any other colour combination
* with sound / ** with sound combined colour

Code structure...



Compose your stack light



max **5** COLORS
+ SOUND



Audible unit

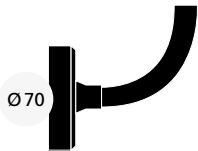
Direct mounting **Ø 22 mm holes**
or on bases with extension poles

Accessories

88-25



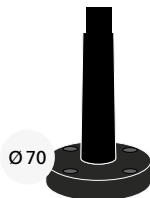
54MP9 / 54MM9*



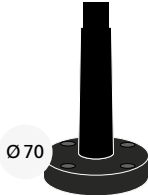
88-10 / 88-71*



54-10 / 54-71*



54-10 / 54-71*



55P62 / 55PZ62*



50-20 / 50-27*



88-10 / 88-71*



50-20 / 50-27*



*Also available in light grey version










Modular
signal light



Modular signal light

180 series

	Technical features	Pag. 76-77
	Programmable	Pag. 78
	Steady light	Pag. 79-82
	Flashing light	Pag. 83-86
	Bases and Accessories	Pag. 87-88
	Audio optical indicators	Pag. 90-95
	Junction boxes	Pag. 96

180 Serie

Modular signal light

Ø 60



The **modular** signal beacon that created **flexibility** in the signaling world.

Facilitates orders, minimizes warehouse costs and meets the needs of technicians and designers.

8 different mounting, 4 kind of lights, 2 domes with different sizes for each color.

To use it is necessary match the domes with the respective bases.

Technical features



Compliance

Directive CEE 2014/35 Low voltage - Directive CEE 2014/30
Electromagnetic compatibility - Directive CEE 2006/42 Machinery

Conformity to standards

EN 60947.5.1 - EN 60204.1 - EN 60073 - EN 60529 -
EN 60068.2.6 - EN 60068-2-27 - EN ISO 7731 - EN 981

Material

Polycarbonate (PC)

Operating voltage

240 V max.

Protection degree

IP 54 - clamps IP 20, (with bases type 85-AS, CS DS e ES, IP 30)

Protection against electric shock

class II

Operating temperature

- 20° C + 50° C (12V 40° C)

Resistance to vibrations

2 days min (10-150 Hz) EN 60068-2-6.

Domes colors

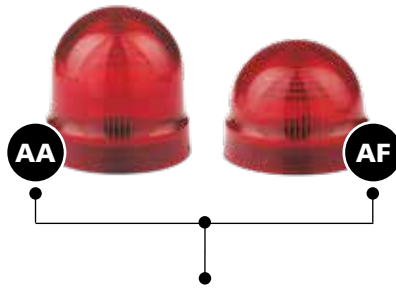


Connections

With screw clamps and wire clamp. Max 1,5 mm².

Modular structure

DOMES



BASES



TUBES



80-KK

55P62



55P62



More information on accessories are available to p. 131-132 of catalogue

ClickClack
Quick removal unit
Discover more ...

LED beacon with programmable light



Steady or flashing light; to change the function, shift the jumper inside.

For use, the indicator must be combined with the bases (see page 77).

Technical features

Operating voltage

24 V AC / DC

Current consumption

40 mA

Flashing frequency












Approx. 1,4 Hz (84 flashing per minutes) EN 60073

Protection Degree

IP54



Type AA

Color	Codes for ordering		Color	Codes for ordering	
	24V DC-AC			24V DC-AC	
	AA42-BF	AA42-BL		AF42-BF	AF42-BL
	AA43-BF	AA43-BL		AF43-BF	AF43-BL
	AA44-BF	AA44-BL		AF44-BF	AF44-BL
	AA45-BF	AA45-BL		AF45-BF	AF45-BL
	AA46-BF	AA46-BL		AF46-BF	AF46-BL
	AA49-BF	AA49-BL		AF49-BF	AF49-BL

Steady light Flashing light






Steady light Flashing light



Type AF



Type AA

Color	Codes for ordering			
	24V DC-AC			
	AA642-BF	AF642-BL	AA642-BF	AF642-BL
	AA643-BF	AF643-BL	AA643-BF	AF643-BL
	AA644-BF	AF644-BL	AA644-BF	AF644-BL
	AA645-BF	AF645-BL	AA645-BF	AF645-BL
	AA646-BF	AF646-BL	AA646-BF	AF646-BL

Steady light Flashing light

Steady light Flashing light

Neutral domes

Type AF

LED beacon with steady light



Module lens and LED light source in the same color.

Easy installation and maintenance. To use it, it is necessary to combine the indicator with the bases (see page 77).

Technical features

Operating voltage

24 V AC / DC - 115 V AC - 240 V AC

Current consumption

24 V, < 50 mA - 115 V, < 18 mA - 240 V, < 17 mA

Operating temperature

-20°C +50°C

Light output







with 10 high brightness LEDs

Protection degree

IP54









Type AA

Color	Codes for ordering		
	24 V DC-AC	115 V AC	240 V AC
	AA12424	AA12415	AA12430
	AA13424	AA13415	AA13430
	AA14424	AA14415	AA14430
	AA15424	AA15415	AA15430
	AA16424	AA16415	AA16430
	AA19424	AA19415	AA19430



Type AF

Color	Codes for ordering		
	24 V DC-AC	115 V AC	240 V AC
	AF12424	AF12415	AF12430
	AF13424	AF13415	AF13430
	AF14424	AF14415	AF14430
	AF15424	AF15415	AF15430
	AF16424	AF16415	AF16430
	AF19424	AF19415	AF19430

High brightness LED beacon with steady light



Neutral dome: neutral module lens, coloured light source.

Coloured dome: module lens and LED light source of the **same colour**.

Easy installation and maintenance. To use it, it is necessary to combine the indicator with the bases (see page 77)

Technical features

Operating voltage

24 V AC / DC - 115 V AC - 240 V AC

Current consumption

24 V, < 50 mA - 115 V, < 25 mA - 240 V, < 20 mA

Operating temperature

-20°C +50°C

Light output

with 45 high brightness LEDs

Protection degree

IP54



Type AA

Color	Codes for ordering		
	12 - 24 V DC-AC	115 V AC	240 V AC
	AA612H4B	AA612H4F	AA612H4G
	AA613H4B	AA613H4F	AA613H4G
	AA614H4B	AA614H4F	AA614H4G
	AA615H4B	AA615H4F	AA615H4G
	AA616H4B	AA616H4F	AA616H4G
	AA619H4B	AA619H4F	AA619H4G



Tipo AA

Color	Codes for ordering		
	12 - 24 V DC-AC	115 V AC	240 V AC
	AA12H4B	AA12H4F	AA12H4G
	AA13H4B	AA13H4F	AA13H4G
	AA14H4B	AA14H4F	AA14H4G
	AA15H4B	AA15H4F	AA15H4G
	AA16H4B	AA16H4F	AA16H4G
	AA19H4B	AA19H4F	AA19H4G

Incandescent beacon with steady light



Bulb with bayonet connection type **BA 15d** max 5W.
For use, the indicator must be combined with the bases.

Technical features

Operating voltage

24 V AC / DC - 115 V AC - 240 V AC

Current consumption

24 V, 210 mA - 115 V, 43 mA - 240 V, 22mA

Operating temperature

-20°C+50°C

Light output







Filament bulb type BA 15d - 5 W max

Protection degree

IP54









Type AA

Color	Codes for ordering		
	24 V DC-AC	115 V AC	240 V AC
	AA12-24	AA12-15	AA12-30
	AA13-24	AA13-15	AA13-30
	AA14-24	AA14-15	AA14-30
	AA15-24	AA15-15	AA15-30
	AA16-24	AA16-15	AA16-30
	AA19-24	AA19-15	AA19-30



Type AF

Color	Codes for ordering		
	24 V DC-AC	115 V AC	240 V AC
	AF12-24	AF12-15	AF12-30
	AF13-24	AF13-15	AF13-30
	AF14-24	AF14-15	AF14-30
	AF15-24	AF15-15	AF15-30
	AF16-24	AF16-15	AF16-30
	AF19-24	AF19-15	AF19-30

Steady light beacon without bulb



Prepared for bulbs with BA15d max 5 W connection.
For use, the indicator must be combined with the bases (see page 77).

Technical features

Operating voltage

24 V AC / DC - 115 V AC - 240 V AC

Light output














Bulb type BA 15d - 5 W max

Protection degree

P54

Operating temperature

-20°C +50°C

	Color	Codes for ordering	Color	Codes for ordering
		AA12-00		AF12-00
		AA13-00		AF13-00
		AA14-00		AF14-00
		AA15-00		AF15-00
		AA16-00		AF16-00
		AA19-00		AF19-00
Type AA				Type AF

LED beacon with flashing light



Module lens and LED light source in the same color. Bulb with bayonet connection type **BA 15d** max 5W.
For use, the indicator must be combined with the bases (see page 77).

Technical features

Operating voltage

24 V AC / DC - 115 V AC - 240 V AC

Current consumption

24 V, < 50 mA - 115 V, < 18 mA - 230 V, < 17 mA

Flashing frequency

Approx. 1,4 Hz (84 flashing per minute)
as EN 60073

Light output







with 10 high brightness LEDs







Operating temperature

-20°C +50°C

Protection degree

IP54

Color	Codes for ordering		
	24V DC-AC	115V AC	240V AC
	AA22424	AA22415	AA22430
	AA23424	AA23415	AA23430
	AA24424	AA24415	AA24430
	AA25424	AA25415	AA25430
	AA26424	AA26415	AA26430
	AA29424	AA29415	AA29430

Color	Codes for ordering		
	24V DC-AC	115V AC	240V AC
	AF22424	AF22415	AF22430
	AF23424	AF23415	AF23430
	AF24424	AF24415	AF24430
	AF25424	AF25415	AF25430
	AF26424	AF26415	AF26430
	AF29424	AF29415	AF29430

High brightness LED beacon with flashing light and neutral dome



Bulb with bayonet connection type **BA 15d** .
For use, the indicator must be combined with the bases.

⚙️ Technical features

Operating voltage

24 V AC/DC- 115 V AC - 240 V AC

Current consumption

24 V, < 50 mA - 115 V, < 25 mA - 240 V, < 20 mA

Flashing frequency

Approx. 1,4 Hz (84 flashing per minutes) - EN 60073

Light output

with 45 high brightness LEDs

Operating temperature

-20°C +50°C

Protection degree

IP54



Type AA

Color	Codes for ordering		
	12V - 24V DC-AC	115V AC	240V AC
⊖	AA622H4B	AA622H4F	AA622H4G
⊙	AA623H4B	AA623H4F	AA623H4G
⊙	AA624H4B	AA624H4F	AA624H4G
⊙	AA625H4B	AA625H4F	AA625H4G
⊙	AA626H4B	AA626H4F	AA626H4G
○	AA629H4B	AA629H4F	AA629H4G



Type AA

Color	Codes for ordering		
	12V - 24V DC-AC	115V AC	240V AC
●	AA22H4B	AA22H4F	AA22H4G
●	AA23H4B	AA23H4F	AA23H4G
●	AA24H4B	AA24H4F	AA24H4G
●	AA25H4B	AA25H4F	AA25H4G
●	AA26H4B	AA26H4F	AA26H4G
○	AA29H4B	AA29H4F	AA29H4G

Incandescent beacon with flashing light



Bulb with bayonet **connection type BA 15d** and **reinforced filament** for greater resistance.
For use, the indicator must be combined with the bases (see page 77).

Technical features

Operating voltage

24 V AC/DC - 115 V AC - 240 V AC

Current consumption

24 V, 145 mA - 115 V, 25 mA - 230 V, 15 mA

Flashing frequency

Approx. 1,4 Hz (84 flashing per minutes) - EN 60073

Operating temperature







-20°C +50°C

Protection degree

IP54









Type AA

Color	Codes for ordering		
	24 V DC-AC	115 V AC	240 V AC
	AA22-24	AA22-15	AA22-30
	AA23-24	AA23-15	AA23-30
	AA24-24	AA24-15	AA24-30
	AA25-24	AA25-15	AA25-30
	AA26-24	AA26-15	AA26-30
	AA29-24	AA29-15	AA29-30



Type AF

Color	Codes for ordering		
	24 V DC-AC	115 V AC	240 V AC
	AF22-24	AF22-15	AF22-30
	AF23-24	AF23-15	AF23-30
	AF24-24	AF24-15	AF24-30
	AF25-24	AF25-15	AF25-30
	AF26-24	AF26-15	AF26-30
	AF29-24	AF29-15	AF29-30

Flashing light beacon without bulb



Prepared for bulbs with BA15d max 5 W connection.
For use, the indicator must be combined with the bases (see page 77).

Technical features

Operating voltage

12V AC/DC - 24 V AC/DC - 48 V AC -
115 V AC - 240 V AC

Light output















bulbs type BA 15d - 5 W max

Operating temperature

-20°C +50°C

Protection degree

IP54

	Color			Codes for ordering			
		12 V AC/DC - 48V AC	24V AC/DC - 230V AC		12 V AC/DC - 48V AC	24V AC/DC - 230V AC	
		AA22-K0	AA22-W0		AF22-K0	AF22-W0	
		AA23-K0	AA23-W0		AF23-K0	AF23-W0	
		AA24-K0	AA24-W0		AF24-K0	AF24-W0	
		AA25-K0	AA25-W0		AF25-K0	AF25-W0	
		AA26-K0	AA26-W0		AF26-K0	AF26-W0	
		AA29-K0	AA29-W0		AF29-K0	AF29-W0	

Type AA

Type AF

- Screw **blocks the rotation** and prevents easy removal
- Removal is **possible with tools** only
- The beacon with these features is supplied **already assembled**



Anti-removal block

Cod. -0Q

Add the code after each item ordered



A simple **rotary movement** allows a **quick installation** without tools.

Simplifies the removal of light detectors after testing.

Reduces the volumes of the machines during shipment.

Saves on packaging and transport costs.

Cod. 80-KK

Click Clack - Quick signal removal system

Click**Clack**

Bases and Accessories



Ø 85 mm base

85-A0



Ø 60 mm base

85-E0



Shallow base
Ø 60 mm

85-B0



Adapter
element

85-C0



Base for Ø 22 mm
hole mounting

85-D0



Glass nylon base
with wall fixing

55P62



Metal bases with
extension poles for 90°
fixing

54MP9



Bases with polycarbona-
te extension poles

54-10



Polycarbonate
extension poles

88-10



Polycarbonate base
and pole

54-90

Notes

180 Series

Audio optical indicator



The **modular** signal beacon that created **flexibility** in the signaling world.

Facilitates orders, minimizes warehouse costs and meets the needs of technicians and designers.

8 different mounting, **4** kind of lights, **2** domes with different sizes for each color.

Pulse or **continuous** sound. The domes must be completed with their respective bases

Technical features



Compliance

Directive CEE 2014/35 Low voltage - Directive CEE 2014/30
Electromagnetic compatibility - Directive CEE 2006/42 Machinery

Conformity to standards

EN 60947.5.1 - EN 60204.1 - EN 60073 - EN 60529 - EN
60068.2.6 - EN 60068-2-27 - EN ISO 7731 - EN 981

Material

Polycarbonate (PC)

Operating voltage

240 V max.

Protection degree

IP 54 - clamps IP 20, (with bases type 85-AS, CS DS e ES, IP 30)

Protection against electric shock

class II, safety insulation (IEC 536)

Operating temperature

- 20° C + 50° C (12V 40° C)

Resistance to vibrations

2 day min (10-150 Hz) EN 60068-2-6.

Domes colors

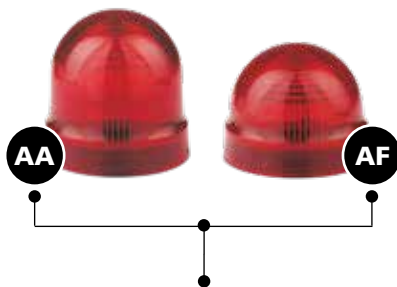


Connections

With screw clamps and wire clamp. Max 1,5 mm².

Modular Structure

DOMES



BASES



TUBES



Example match
visual indicator

ClickClack
Quick removal unit
Discover more ...



Steady beacon with integrated sound



Module lens and LED light source in the same color. Bulb with bayonet connection type BA 15d.
To use it, it is necessary to combine the indicator with the bases.

Technical features

Operating voltage

24 V AC / DC

Current consumption

LEDs bulbs: 24 V, < 50 mA - 115 V, < 18 mA
240 V, < 17 mA

Filament bulbs 5 W: 24 V, 210 mA

115 V, 43 mA 240 V, 22 mA

Light output

LEDs of filament bulbs





Bulb with bayonet connection type BA 15d

Sound frequency

4000 Hz

A-weighted sound power detected at 1 mt

Continuous sound 77 dB

Color	Codes for ordering	
	24 V DC/AC - filament bulb	
	AA12-B7	AF12-B7
	AA13-B7	AF13-B7
	AA14-B7	AF14-B7
	AA15-B7	AF15-B7
	AA16-B7	AF16-B7
	AA19-B7	AF19-B7
Color	Codes for ordering	
	24 V DC/AC - LED bulb	
	AA124B7	AF124B7
	AA134B7	AF134B7
	AA144B7	AF144B7
	AA154B7	AF154B7
	AA164B7	AF164B7
	AA194B7	AF194B7

Flashing beacon with integrated sound



Bulb with bayonet connection type **BA 15d**.

To use it, it is necessary to combine the indicator with the bases.

Technical features

Operating voltage

24 V AC / DC

Current consumption

LEDs bulbs: 24 V, < 50 mA - 115 V, < 18 mA

240 V, < 17 mA

Filament bulbs 5 W: 24 V, 145 mA - 115 V, 25 mA

240 V, 15 mA

Light output

LEDs or filament bulbs

Bulb













with bayonet connection type BA 15d- 5 W max

Flashing and sound frequency

approx 1,4 Hz (84 flashing per minute) - 4000 Hz

A-weighted sound power detected at 1 mt

pulse sound 80 dB

Color	Codes for ordering	
	24 V DC/AC - filament bulb	
	AA22-B7	AF22-B7
	AA23-B7	AF23-B7
	AA24-B7	AF24-B7
	AA25-B7	AF25-B7
	AA26-B7	AF26-B7
	AA29-B7	AF29-B7
Color	Codes for ordering	
	24 V DC/AC - LED bulb	
	AA224B7	AF224B7
	AA234B7	AF234B7
	AA244B7	AF244B7
	AA254B7	AF254B7
	AA264B7	AF264B7
	AA294B7	AF294B7

Programmable beacon with integrated sound



Steady light with continuous sound or flashing light with pulse sound.

To change the function, shift the jumper inside. To use it, it is necessary to combine the indicator with the bases.

Technical features

Operating voltage

24 V AC / DC

Current consumption

24 V DC / AC, 55 mA

Light output

LED bulbs

Flashing and sound frequency













approx 1,4 Hz (84 flashing per minute) - 3500 Hz

Sound

pulse or continuous

A-weighted sound power detected at 1 mt

Pulse 80 dB - Continuous 77 dB

Color	Codes for ordering	
24 V DC/AC - steady light		
	AA42ABF	AF42ABF
	AA43ABF	AF43ABF
	AA44ABF	AF44ABF
	AA45ABF	AF45ABF
	AA46ABF	AF46ABF
	AA49ABF	AF49ABF
Color	Codes for ordering	
24 V DC/AC - flashing light		
	AA42ABL	AF42ABL
	AA43ABL	AF43ABL
	AA44ABL	AF44ABL
	AA45ABL	AF45ABL
	AA46ABL	AF46ABL
	AA49ABL	AF49ABL



LED beacon with **integrated sound** and **separated control**



Lighting and sound are freely selectable, to change the function shift the jumper inside.
Pre-set with **flashing light** and **pulse sound**. To use it, it is necessary to combine the indicator with the bases.

Technical features

Operating voltage

12 or 24 V AC / DC

Current consumption

60 mA - 24 V

Light output













High brightness LEDs

Flashing and sound frequency

approx 1,4 Hz (84 flashing per minute) - 2900 Hz

A-weighted sound power detected at 1 mt

Pulse 85 dB - Continuous 82 dB

Color	Codes for ordering	
	12 V DC/AC - high brightness LED	
	AA427AL	AF427AL
	AA437AL	AF437AL
	AA447AL	AF447AL
	AA457AL	AF457AL
	AA467AL	AF467AL
	AA497AL	AF497AL
Color	Codes for ordering	
	24 V DC/AC - high brightness LED	
	AA427BL	AF427BL
	AA437BL	AF437BL
	AA447BL	AF447BL
	AA457BL	AF457BL
	AA467BL	AF467BL
	AA497BL	AF497BL

180 Series

Junction **boxes**



A system that allows to create the most varied applications and configurations.

The boxes are supplied complete with 85-D0 and 85-DS bases but without domes.

Complete the box by selecting one of the **light indicators** available among all those of the **180 series**.

Technical features



Dimension

One indicator: 70 x 70 x 51 mm

Two indicators: 70 x 140 x 51 mm

Protection degree

IP 65

Pre-set

85-D0 or 85-DS, cable gland (un-mounted) are included.

Connections

with screw cable clamp (max 1.5 mm²)

Material

ABS (RAL 7035)

Operating temperature

-25° / +70°

Codes and data for ordering

CS 1001 Box for one indicator

CS 1002 Box for two indicators



Optical *signal device*

183 series



Technical features

Pag. 98



Integrated LED

Pag. 99-100



Steady light

Pag. 101-102



Flashing light

Pag. 103-104



Optical and audible signal device

Pag. 106-109



Combined and separated control

Pag. 110

183 Series

Optical Signal devices

Ø 60



The 183 series beacons are **compact** and **very bright**. The design is linear and harmonious. Simple to install and wire thanks to **removable terminal block** and **direct fixing on Ø 22 mm hole**. Lighting with high brightness LEDs. The particular mechanical configuration protects it from tampering.

Technical features



Compliance

Directive CEE 2014/35 Low voltage - Directive CEE 2014/30
Electromagnetic compatibility - Directive CEE 2006/42 Machinery

Conformity to standards

EN 60947.5.1 - EN 60204.1 - EN 60073 - EN 60529 -
EN 60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Material

Polycarbonate (PC)

Operating voltage

max 240 V

Protection degree

IP 65

Protection against electric shock

class II, safety insulation (IEC 536)

Resistance to vibrations

2 day min (10-150 Hz)

Operating temperature

- 20° C + 50° C

Lens color



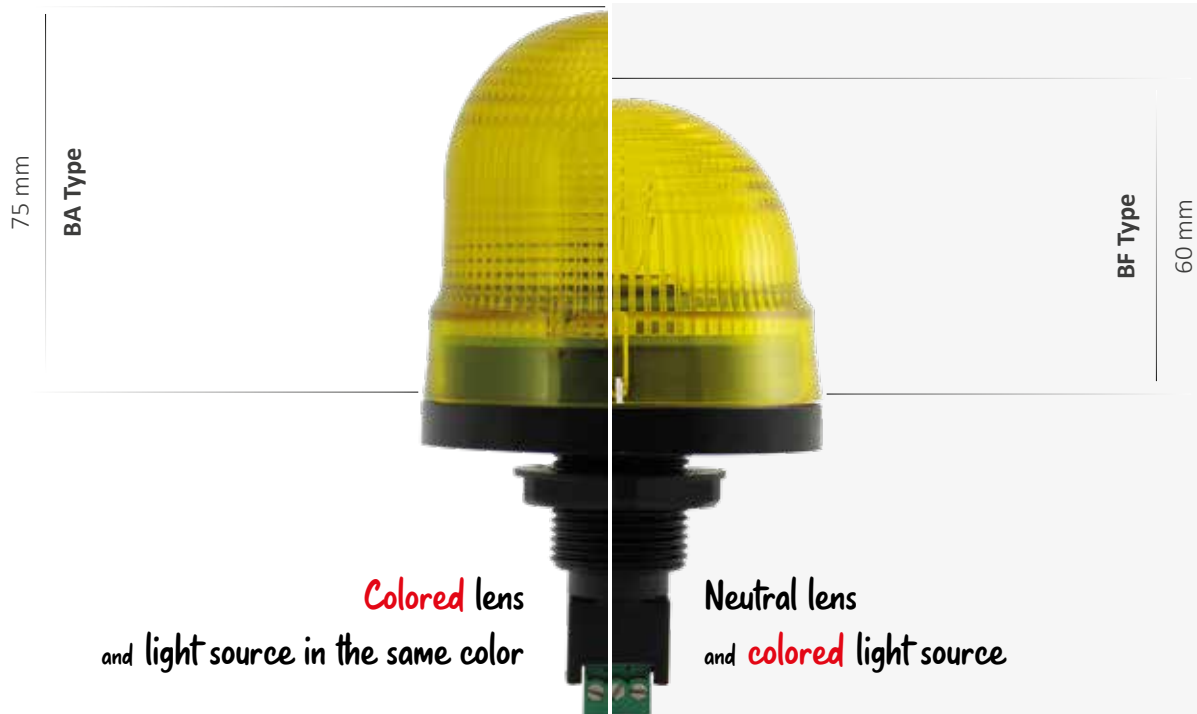
Connections

with screw cable clamp (max 1,5 mm²)

Dimensions

(Ø x ledge) Type BA, 62 mm x 75 mm - Type BF, 62 mm x 60 mm

INTEGRATED LEDS BEACON WITH **FLASHING LIGHT**



Technical features

Light output

Lighting obtained by integrated LEDs system

Flash frequency

Approx. 1,4 Hz (84 flashes per minute)

Protection degree

IP65

Operating voltage












24 V AC / DC

Current consumption

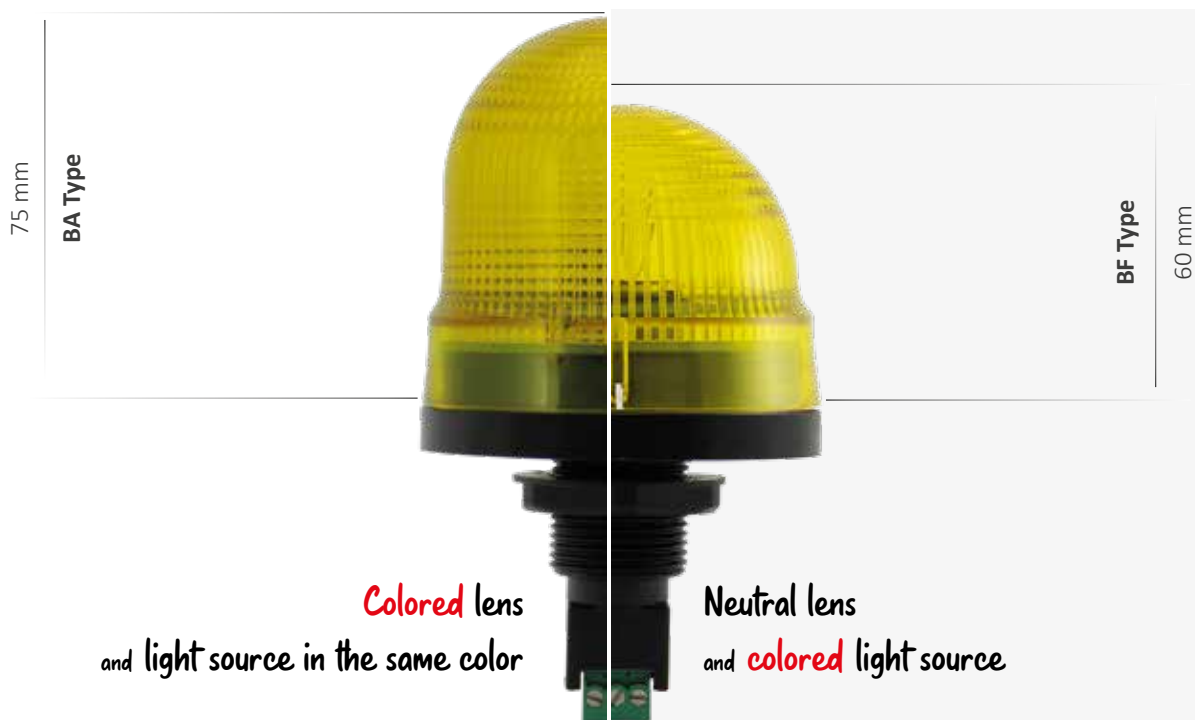
24 V AC / DC - 40 mA

Life

> 50.000 working hours

COLOR	Codes and data for ordering		COLOR	Codes and data for ordering	
	BA42-BL	BF42-BL		BA642BL	BF642BL
	BA43-BL	BF43-BL		BA643BL	BF643BL
	BA44-BL	BF44-BL		BA644BL	BF644BL
	BA45-BL	BF45-BL		BA645BL	BF645BL
	BA46-BL	BF46-BL		BA646BL	BF646BL
	BA49-BL	BF49-BL			

INTEGRATED LEDs BEACON WITH **STEADY LIGHT**



Technical features

Light output

Lighting obtained by integrated LEDs system

Operating voltage

24 V AC / DC

Protection degree












IP65

Current consumption

24 V AC / DC - 40 mA

Life

> 50.000 working hours

COLOR	Codes and data for ordering		COLOR	Codes and data for ordering	
	BA42-BF	BF42-BF		BA642BF	BF642BF
	BA43-BF	BF43-BF		BA643BF	BF643BF
	BA44-BF	BF44-BF		BA644BF	BF644BF
	BA45-BF	BF45-BF		BA645BF	BF645BF
	BA46-BF	BF46-BF		BA646BF	BF646BF
	BA49-BF	BF49-BF			

STEADY LIGHT LEDs BEACON

Technical features

Light output

10 high brightness LEDs

Operating voltage





24 V DC / AC ; 115 V AC ; 230 V AC

Current consumption



24 V, 35 mA - 115 V, 20 mA - 230 V, 20 mA

Protection degree

IP65







COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	BA12424	BA12430
	BA13424	BA13430
	BA14424	BA14430
	BA15424	BA15430
	BA16424	BA16430
	BA19424	BA19430



COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	BF12424	BF12430
	BF13424	BF13430
	BF14424	BF14430
	BF15424	BF15430
	BF16424	BF16430
	BF19424	BF19430

45 LEDs - High brightness



COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	BA12H4B	BA12H4G
	BA13H4B	BA13H4G
	BA14H4B	BA14H4G
	BA15H4B	BA15H4G
	BA16H4B	BA16H4G
	BA19H4B	BA19H4G

STEADY LIGHT LEDs BEACON WITH NEUTRAL LENS

Technical features

Light output

10 high brightness LEDs

Operating voltage

24 V DC / AC ; 115 V AC ; 230 V AC






Current consumption







24 V, 35 mA - 115 V, 20 mA - 230 V, 20 mA

Protection degree

IP65









COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	BA612424	BA612430
	BA613424	BA613430
	BA614424	BA614430
	BA615424	BA615430
	BA616424	BA616430
	BA619424	BA619430

COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	BF612424	BF612430
	BF613424	BF613430
	BF614424	BF614430
	BF615424	BF615430
	BF616424	BF616430
	BA619424	BA619430

45 LEDs - High brightness



COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	BA612H4B	BA612H4G
	BA613H4B	BA613H4G
	BA614H4B	BA614H4G
	BA615H4B	BA615H4G
	BA616H4B	BA616H4G
	BA619H4B	BA619H4G

Avoids false signals caused by reflections of sunlight (Phantom effect)

FLASHING LIGHT LEDs BEACON

Technical features

Light output

10 high brightness LEDs

Flashing frequency





approx 1,4 Hz (84 flashes per minute)

Operating voltage







24 V DC / AC ; 115 V AC ; 230 V AC

Current consumption

24 V, 35 mA - 115 V, 20 mA - 230 V, 22mA







COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	BA22424	BA22430
	BA23424	BA23430
	BA24424	BA24430
	BA25424	BA25430
	BA26424	BA26430
	BA29424	BA29430



COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	BF22424	BF22430
	BF23424	BF23430
	BF24424	BF24430
	BF25424	BF25430
	BF26424	BF26430
	BF29424	BF29430

45 LEDs - High brightness



COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	BA22H4B	BA22H4G
	BA23H4B	BA23H4G
	BA24H4B	BA24H4G
	BA25H4B	BA25H4G
	BA26H4B	BA26H4G
	BA29H4B	BA29H4G

FLASHING LIGHT LED BEACON WITH NEUTRAL LENS

Technical features

Light output

10 high brightness LEDs

Flashing frequency

approx 1,4 Hz (84 flashes per minute)







Operating voltage







24 V DC / AC ; 115 V AC ; 230 V AC

Current consumption







24 V, 35 mA - 115 V, 20 mA - 230 V, 22mA



COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	BA622424	BA622430
	BA623424	BA623430
	BA624424	BA624430
	BA625424	BA625430
	BA626424	BA626430
	BA629424	BA629430

COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	BF622424	BF622430
	BF623424	BF623430
	BF624424	BF624430
	BF625424	BF625430
	BF626424	BF626430
	BF629424	BF629430

45 LEDs - High brightness

COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	BA622H4B	BA622H4G
	BA623H4B	BA623H4G
	BA624H4B	BA624H4G
	BA625H4B	BA625H4G
	BA626H4B	BA626H4G
	BA629H4B	BA629H4G



Avoids false signals caused by reflections of sunlight (Phantom effect)

183 Serie

Optical and **audible** Signal devices

Ø 60



The 183 series beacons are **compact** and **very bright**. The design is linear and harmonious. Simple to install and wire thanks to **removable screw clamp** and **direct fixing on Ø 22 mm hole**. Lighting with high brightness LED. The particular mechanical configuration protects it from tampering.

Technical features



Compliance

Directive CEE 2014/35 Low voltage - Directive CEE 2014/30
Electromagnetic compatibility - Directive CEE 2006/42 Machinery

Conformity to standards

EN 60947.5.1 - EN 60204.1 - EN 60073 - EN 60529 -
EN 60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Material

Polycarbonate (PC)

Operating voltage

max 240 V

Protection degree

IP 65

Protection against electric shock

class II, safety insulation

Resistance to vibrations

2 days min (10-150 Hz)

Operating temperature

- 20° C + 50° C

Lens color



Connections

with screw cable clamp (max 1,5 mm²)

Dimensions

Ø x ledge) Type BA, 62 mm x 75 mm - Type BF, 62 mm x 60 mm

Sound Frequency

from 2900 Hz to 4000 Hz (depending on the model)

A-weighted sound power detected at one meter

Pulse sound 80 dB - Continuous sound 77 dB

STEADY BEACON WITH INTEGRATED SOUND

Technical features

Light output

LEDs or filament bulbs with BA15d connection

Operating voltage

12-240 V

Current consumption

LED: 24 V, < 50 mA - 115 V, < 18 mA - 230 V, < 17 mA

Filament 5W: 24 V, 210 mA - 115 V, 43 mA - 230 V, 22 mA







Sound frequency

3700 Hz







A-weighted sound power detected at 1 mt

continuous sound 77 dB



COLOR	Codes and data for ordering		Sound	Sound power
	24 V DC-AC			
	BA12-B7	BA124B7	Continuous - 3700 Hz	77 dB
	BA13-B7	BA134B7		77 dB
	BA14-B7	BA144B7		77 dB
	BA15-B7	BA154B7		77 dB
	BA16-B7	BA164B7		77 dB
	BA19-B7	BA194B7		77 dB



COLOR	Codes and data for ordering		Sound	Sound power
	24 V DC-AC			
	BF12-B7	BF124B7	Continuous - 3700 Hz	77 dB
	BF13-B7	BF134B7		77 dB
	BF14-B7	BF144B7		77 dB
	BF15-B7	BF154B7		77 dB
	BF16-B7	BF164B7		77 dB
	BF19-B7	BF194B7		77 dB

FLASHING BEACON WITH INTEGRATED SOUND

Pre-set with flashing light, to change the function shift the jumper inside.

Technical features

Light output

LEDs or filament bulbs with BA 15d connection

Flashing frequency

Approx. 1,4 Hz (84 flashes per minute)

Operating voltage

24 V AC / DC; 115 V AC; 230 V AC

Current consumption

LED: 24 V, < 50 mA - 115 V, < 18 mA - 230 V, < 17 mA

Filament 5W: 24 V, 145 mA - 115 V, 25 mA - 230 V, 15 mA

Sound frequency

3700 Hz

A-weighted sound power detected at 1 mt

Pulse sound 80 dB



COLOR	Codes and data for ordering		Sound	Sound power
	24 V DC-AC			
	BA22-B7	BA224B7	Pulse - 3700 Hz	80 dB
	BA23-B7	BA234B7		80 dB
	BA24-B7	BA244B7		80 dB
	BA25-B7	BA254B7		80 dB
	BA26-B7	BA264B7		80 dB
	BA29-B7	BA294B7		80 dB



COLOR	Codes and data for ordering		Sound	Sound power
	24 V DC-AC			
	BF22-B7	BF224B7	Pulse - 3700 Hz	80 dB
	BF23-B7	BF234B7		80 dB
	BF24-B7	BF244B7		80 dB
	BF25-B7	BF254B7		80 dB
	BF26-B7	BF264B7		80 dB
	BF29-B7	BF294B7		80 dB

PROGRAMMABLE LED BEACON WITH INTEGRATED SOUND

Pre-set with flashing light, to change the function shift the jumper inside.

Technical features

Light output

high brightness LEDs

Flashing frequency

Approx. 1,4 Hz (84 flashes per minute)

Operating voltage

24 V AC / DC

Current consumption

24 V AC / DC - 55 mA

Sound

Pulse or continuous

Sound frequency

about 4000 Hz

A-weighted sound power detected at 1 mt

Pulse sound 80 dB

Continuous sound 77 dB



Color	Codes and data for ordering 24 V DC-AC	Sound	Sound power	Color	Codes and data for ordering 24 V DC-AC	Sound	Sound power
	BA42ABF	Continuous - 3700 Hz	77 dB		BF42ABF	Continuous - 3700 Hz	77 dB
	BA43ABF		77 dB		BF43ABF		77 dB
	BA44ABF		77 dB		BF44ABF		77 dB
	BA45ABF		77 dB		BF45ABF		77 dB
	BA46ABF		77 dB		BF46ABF		77 dB
	BA49ABF		77 dB		BF49ABF		77 dB
Color	Codes and data for ordering 24 V DC-AC	Sound	Sound power	Color	Codes and data for ordering 24 V DC-AC	Sound	Sound power
	BA42ABL	Pulse - 3700 Hz	80 dB		BF42ABL	Pulse - 3700 Hz	80 dB
	BA43ABL		80 dB		BF43ABL		80 dB
	BA44ABL		80 dB		BF44ABL		80 dB
	BA45ABL		80 dB		BF45ABL		80 dB
	BA46ABL		80 dB		BF46ABL		80 dB
	BA49ABL		80 dB		BF49ABL		80 dB

LED BEACON WITH INTEGRATED SOUND AND SEPARATED CONTROL

Lighting and sound types freely selectable, to change the function shift the jumper inside.
Pre-set with flashing light and pulse sound

Technical features

Light output

high brightness LEDs

Operating voltage

12 or 24 V AC / DC

Current consumption

24 V, 60 mA

Flashing frequency

approx. 1,4 Hz (84 flashes per minute)

according to EN 60073







Sound frequency

2900 Hz







A-weighted sound power detected at 1 mt

Pulse sound 85 dB









COLOR	Codes and data for ordering		Sound	Sound power
	12 V DC-AC	24 V DC-AC		
	BA427AL	BA427BL	Pulse 2900 Hz	85 dB
	BA437AL	BA437BL		85 dB
	BA447AL	BA447BL		85 dB
	BA457AL	BA457BL		85 dB
	BA467AL	BA467BL		85 dB
	BA497AL	BA497BL		85 dB



COLOR	Codes and data for ordering		Sound	Sound power
	12 V DC-AC	24 V DC-AC		
	BF427AL	BF427BL	Pulse 2900 Hz	85 dB
	BF437AL	BF437BL		85 dB
	BF447AL	BF447BL		85 dB
	BF457AL	BF457BL		85 dB
	BF467AL	BF467BL		85 dB
	BF497AL	BF497BL		85 dB

Optical *signal device*

185 serie

	Technical features	Pag. 112
	Programmable	Pag. 113
	Steady light	Pag. 114-115
	Flashing light	Pag. 116-117
	Optical and audible signal device	Pag. 118
	Combined and separated control	Pag. 119-121

185 Series

Optical **Signal** devices

Ø 60



The 185 series beacons are **compact** and **very bright**. The line has an elegant design. Simple to install and wire thanks to fixing direct with 2 screws from 4 mA. Equipped with 300 mm output cable. Lighting with high brightness or traditional LEDs. Sold with anti-tampering block.

Technical features



Compliance

Directive CEE 2014/35 Low voltage - Directive CEE 2014/30
Electromagnetic compatibility - Directive CEE 2006/42 Machinery

Conformity to standards

EN 60947.5.1 - EN 60204.1 - EN 60073 - EN 60529 -
EN 60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Material

Polycarbonate (PC)

Operating voltage

max 240 V

Protection degree

IP 65

Protection against electric shock

class II, safety insulation (IEC 536)

Resistance to vibrations

2 day min (10-150 Hz)

Operating temperature

- 20° C + 50° C

Lens color



Connections

with 300 mm output cable

Dimensions (x ledge)

Type CA, 62 mm x 75 mm - Type CF, 62 mm x 60 mm

LED BEACON WITH **PROGRAMMABLE LIGHT**

Pre-set with flashing light, to change the function shift the jumper inside.



Complete with **output cable**

2 types,
many colors...



Technical features

Light output

by high brightness LEDs

Flash frequency

Approx. 1,4 Hz (84 flashes per minute)

Operating voltage

24 V DC / AC

Life













> 50.000 working hours

Current consumption

24 V DC/AC - 40 mA

Protection Degree

IP65

COLOR	Codes and data for ordering		COLOR	Codes and data for ordering	
	CA42-BL	CF42-BL		CA642BL	CF642BL
	CA43-BL	CF43-BL		CA643BL	CF643BL
	CA44-BL	CF44-BL		CA644BL	CF644BL
	CA45-BL	CF45-BL		CA645BL	CF645BL
	CA46-BL	CF46-BL		CA646BL	CF646BL
	CA49-BL	CF49-BL		CA649BL	CF649BL

LED BEACON WITH **STEADY LIGHT**

Technical features

Light output

10 LEDs bulb type BA 15d

45 high brightness LEDs bulb type BA 15d

Operating voltage

24-230 V







Current consumption

10 LED: 24 V, 35 mA - 115 V, 20 mA - 230 V, 20mA





45 LED: 24 V, 35 mA - 115 V, 20 mA - 230 V, 22mA

Protection Degree

IP65







COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	CA12424	CA12430
	CA13424	CA13430
	CA14424	CA14430
	CA15424	CA15430
	CA16424	CA16430
	CA19424	CA19430



COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	CF12424	CF12430
	CF13424	CF13430
	CF14424	CF14430
	CF15424	CF15430
	CF16424	CF16430
	CF19424	CF19430

45 LEDs - High brightness



COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	CA12H4B	CA12H4G
	CA13H4B	CA13H4G
	CA14H4B	CA14H4G
	CA15H4B	CA15H4G
	CA16H4B	CA16H4G
	CA19H4B	CA19H4G

LED **STEADY LIGHT** BEACON WITH NEUTRAL LENS



Technical features

Light output

10 LEDs bulb type BA 15d

45 high brightness LEDs bulb type BA 15d

Operating voltage

24 - 230 V

Current consumption

10 LED: 24 V, 35 mA - 115 V, 20 mA - 230 V, 20 mA

45 LED: 24 V, 35 mA - 115 V, 20 mA - 230 V, 22 mA

Protection Degree

IP65



COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	CA612424	CA612430
	CA613424	CA613430
	CA614424	CA614430
	CA615424	CA615430
	CA616424	CA616430

COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	CF612424	CF612430
	CF613424	CF613430
	CF614424	CF614430
	CF615424	CF615430
	CF616424	CF616430

45 LEDs - High brightness



COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	CA612H4B	CA612H4G
	CA613H4B	CA613H4G
	CA614H4B	CA614H4G
	CA615H4B	CA615H4G
	CA616H4B	CA616H4G
	CA619H4B	CA619H4G

LED FLASHING LIGHT BEACON

Pre-set with flashing light, to change the function shift the jumper inside.

Technical features

Light output

10 LEDs bulb type BA 15d

45 high brightness LEDs bulb type BA 15d







Operating voltage

24 V DC / AC ; 115 V AC ; 230 V AC

Current consumption

10 LED: 24 V, 35 mA - 115 V, 20 mA - 230 V, 22 mA

45 LED: 24 V, 35 mA - 115 V, 20 mA - 230 V, 25 mA







COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	CA22424	CA22430
	CA23424	CA23430
	CA24424	CA24430
	CA25424	CA25430
	CA26424	CA26430
	CA29424	CA29430



COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	CF22424	CF22430
	CF23424	CF23430
	CF24424	CF24430
	CF25424	CF25430
	CF26424	CF26430
	CF29424	CF29430

45 LEDs - High brightness



COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	CA22H4B	CA22H4G
	CA23H4B	CA23H4G
	CA24H4B	CA24H4G
	CA25H4B	CA25H4G
	CA26H4B	CA26H4G
	CA29H4B	CA29H4G

LED FLASHING LIGHT BEACON WITH NEUTRAL LENS

Pre-set with flashing light, to change the function shift the jumper inside.

Technical features

Light output

10 LEDs bulb type BA 15d

45 high brightness LEDs bulb type BA 15d

Operating voltage






24 V DC / AC ; 115 V AC ; 230 V AC






Current consumption

10 LED: 24 V, 35 mA - 115 V, 20 mA - 230 V, 22 mA

45 LED: 24 V, 35 mA - 115 V, 20 mA - 230 V, 25 mA









COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	CA622424	CA622430
	CA623424	CA623430
	CA624424	CA624430
	CA625424	CA625430
	CA626424	CA626430

COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	CF622424	CF622430
	CF623424	CF623430
	CF624424	CF624430
	CF625424	CF625430
	CF626424	CF626430

45 LEDs - High brightness



COLOR	Codes and data for ordering	
	24 V DC-AC	115 / 230 V AC
	CA622H4B	CA622H4G
	CA623H4B	CA623H4G
	CA624H4B	CA624H4G
	CA625H4B	CA625H4G
	CA626H4B	CA626H4G
	CA629H4B	CA629H4G

185 Series

Optical and **audible** Signal devices

Ø 60



The 183 series beacons are **compact** and **very bright**. The design is enhanced by an elegant line. Simple to install and wire thanks to fixing direct with 2 screws from 4 mA. Complete with 300 mm output cable. Lighting with high brightness or traditional LEDs. Sold with anti-tampering block.

Technical features



Compliance

Directive CEE 2014/35 Low voltage - Directive CEE 2014/30
Electromagnetic compatibility - Directive CEE 2006/42 Machinery

Conformity to standards

EN 60947.5.1 - EN 60204.1 - EN 60073 - EN 60529 -
EN 60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Material

Polycarbonate (PC)

Operating voltage

max 240 V

Protection degree

IP 65

Protection against electric shock

class II, safety insulation

Resistance to vibrations

2 day min (10-150 Hz)

Operating temperature

- 20° C + 50° C

Lens color



Connections

with 300 mm output cable

Dimensions

(Ø x ledge) Type CA, 62 mm x 75 mm - Type CF, 62 mm x 60 mm

Sound Frequency

from 2900 Hz to 4000 Hz (depending on the model)

A-weighted sound power detected at one meter

Pulse sound 80 dB - Continuous sound 77 dB

STEADY BEACON WITH INTEGRATED SOUND SINGLE CONTROL

Technical features

Light output

LEDs or filament bulbs with BA 15D connection

Operating voltage

24-230 V

Current consumption

LEDs bulb: 24 V, 35 mA - 115 V, 20 mA - 230 V, 20 mA

Filament 5W bulb: 24 V, 210 mA - 115 V, 43 mA - 230 V, 22 mA







Sound frequency

3700 Hz







A-weighted sound power detected at 1 mt

Continuous sound 77 dB



COLOR	Codes and data for ordering		Sound	Sound power
	24 V DC-AC			
	CA12-B7	CA124B7	Continuous - 3700 Hz	77 dB
	CA13-B7	CA134B7		77 dB
	CA14-B7	CA144B7		77 dB
	CA15-B7	CA154B7		77 dB
	CA16-B7	CA164B7		77 dB
	CA19-B7	CA194B7		77 dB



COLOR	Codes and data for ordering		Sound	Sound power
	24 V DC-AC			
	CF12-B7	CF124B7	Continuous - 3700 Hz	77 dB
	CF13-B7	CF134B7		77 dB
	CF14-B7	CF144B7		77 dB
	CF15-B7	CF154B7		77 dB
	CF16-B7	CF164B7		77 dB
	CF19-B7	CF194B7		77 dB

FLASHING BEACON WITH INTEGRATED SOUND SINGLE CONTROL

Technical features

Light output

LEDs or filament bulbs with BA 15d connection

Flash frequency

Approx. 1,4 Hz (84 flashes per minute)

Operating voltage

24 V AC / DC; 115 V AC; 230 V AC

Current consumption

LEDs bulb: 24V < 50 mA - 115V <18 mA - 230V < 17 mA

Filament 5W bulb: 24 V, 145 mA - 115 V, 25 mA - 230 V, 15 mA

Sound frequency

3700 Hz

A-wighted sound power detected at 1 mt

Pulse sound 80 dB



COLOR	Codes and data for ordering		Sound	Sound power
	24 V DC-AC			
●	CA22-B7	CA224B7	Pulse - 3700 Hz	80 dB
●	CA23-B7	CA234B7		80 dB
●	CA24-B7	CA244B7		80 dB
●	CA25-B7	CA254B7		80 dB
●	CA26-B7	CA264B7		80 dB
○	CA29-B7	CA294B7		80 dB



COLOR	Codes and data for ordering		Sound	Sound power
	24 V DC-AC			
●	CF22-B7	CF224B7	Pulse - 3700 Hz	80 dB
●	CF23-B7	CF234B7		80 dB
●	CF24-B7	CF244B7		80 dB
●	CF25-B7	CF254B7		80 dB
●	CF26-B7	CF264B7		80 dB
○	CF29-B7	CF294B7		80 dB

PROGRAMMABLE LED BEACON WITH INTEGRATED SOUND SINGLE CONTROL

Technical features

Light output

by high brightness LEDs

Flash frequency

Approx. 1,4 Hz (84 flashes per minute)

Operating voltage

24 V AC / DC

Current consumption

24 V AC / DC - 55 mA

Sound

Pulse or continuous

Sound frequency

























about 4000 Hz

A-weighted sound power detected at 1 mt

Pulse sound 80 dB

Continuous sound 77 dB



Color	Codes and data for ordering 24 V DC-AC	Sound	Sound power	Color	Codes and data for ordering 24 V DC-AC	Sound	Sound power
	CA42ABF	Continuous - 3700 Hz	77 dB		CF42ABF	Continuous - 3700 Hz	77 dB
	CA43ABF		77 dB		CF43ABF		77 dB
	CA44ABF		77 dB		CF44ABF		77 dB
	CA45ABF		77 dB		CF45ABF		77 dB
	CA46ABF		77 dB		CF46ABF		77 dB
	CA49ABF		77 dB		CF49ABF		77 dB
Color	Codes and data for ordering 24 V DC-AC	Sound	Sound power	Color	Codes and data for ordering 24 V DC-AC	Sound	Sound power
	CA42ABL	Pulse - 3700 Hz	80 dB		CF42ABL	Pulse - 3700 Hz	80 dB
	CA43ABL		80 dB		CF43ABL		80 dB
	CA44ABL		80 dB		CF44ABL		80 dB
	CA45ABL		80 dB		CF45ABL		80 dB
	CA46ABL		80 dB		CF46ABL		80 dB
	CA49ABL		80 dB		CF49ABL		80 dB

189 Series

Low profile beacon



The 189 series beacons have **high brightness LEDs lighting**. Neutral **opal** shade and colored **light source**. Easy to install thanks to the direct fixing on Ø22 mm hole. **High resistance** to mechanical stress and to weather conditions. A particular configuration **protects it from tampering**.

Technical features

Compliance

Directive CEE 2014/35 low voltage - Directive CEE 2014/30 electromagnetic compatibility - Directive CEE 2006/42 Machinery

Conformity to standards

EN 60947.5.1 - EN 60204.1 - EN 60073 - EN 60529 - EN 60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Material

Polycarbonate (PC)

Operating voltage

24VDC; 24VAC; 48VAC

Protection degree

IP 65 (If properly mounted)

Protection against electric shocks

class II, safety insulation

Resistance to vibrations

2 days min (10 –150 Hz) according to EN 60068-2-6 e 27

Operating temperature

- 20° c + 50° c

Colors (light source)



Connection

removal terminal block with 3 poles

Dimensions

Ø x ledge) 62mm x 30 mm

INTEGRATED LEDS BEACON WITH **STEADY** OR **FLASHING** LIGHT

Neutral opal shade and colored light source.



Technical features

Light output

by integrated LEDs system

Operating voltage






24 V DC; 24 V AC; 48 V AC






Current consumption

24V, 40mA - 48V, 35mA

Flashing frequency (flashing light only)

approx. 1,4 Hz (+/- 84 flashes per minute)

COLORS	Codes and data for ordering		
FLASHING light	24 V DC	24 V AC	48 V AC
	ENP42-BL	ENP42-BXL	ENP42-DL
	ENP44-BL	ENP44-BXL	ENP44-DL
	ENP45-BL	ENP45-BXL	ENP45-DL
	ENP46-BL	ENP46-BXL	ENP46-DL
	ENP49-BL	ENP49-BXL	ENP49-DL

COLORS	Codes and data for ordering		
STEADY light	24 V DC	24 V AC	48 V AC
	ENP42-BF	ENP42-BXF	ENP42-DF
	ENP44-BF	ENP44-BXF	ENP44-DF
	ENP45-BF	ENP45-BXF	ENP45-DF
	ENP46-BF	ENP46-BXF	ENP46-DF
	ENP49-BF	ENP49-BXF	ENP49-DF

220 Series

Panel **indicator** beacons

Ø 30



Small size, great brightness, elegant line.

The possibility of perpendicular wiring allows particularly compact installations and quick and easy assembly.

Lighting with **high efficiency LEDs**, steady or flashing light.

Technical features



Compliance

Directive CEE 2014/35 Low voltage - Directive CEE 2014/30
Electromagnetic compatibility - Directive CEE 2006/42 Machinery

Conformity to standards

EN 60947.5.1 - EN 60204.1 - EN 60073 - EN 60529 -
EN 60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Material

Polycarbonate (PC)

Protections degree

IP 20 (wired IP 65)

Voltage

24 V DC/AC

Light output

High efficiency LEDs - life > 25.000 working hours

Color lens



Dimensions

(Ø x ledge) 30 x 30 mm

Operating temperature

- 20° C + 50° C

Resistance to vibrations

Min 2 days (10-150 Hz)

Connections

With screw terminals and wire clamp

PANEL INDICATOR BEACON

Quick and easy assembly, also possible on panels with a thickness of 15 mm. It allows compact installations. A wide range of accessories for a customized application.



Quick **mounting**



different colors...



Steady light



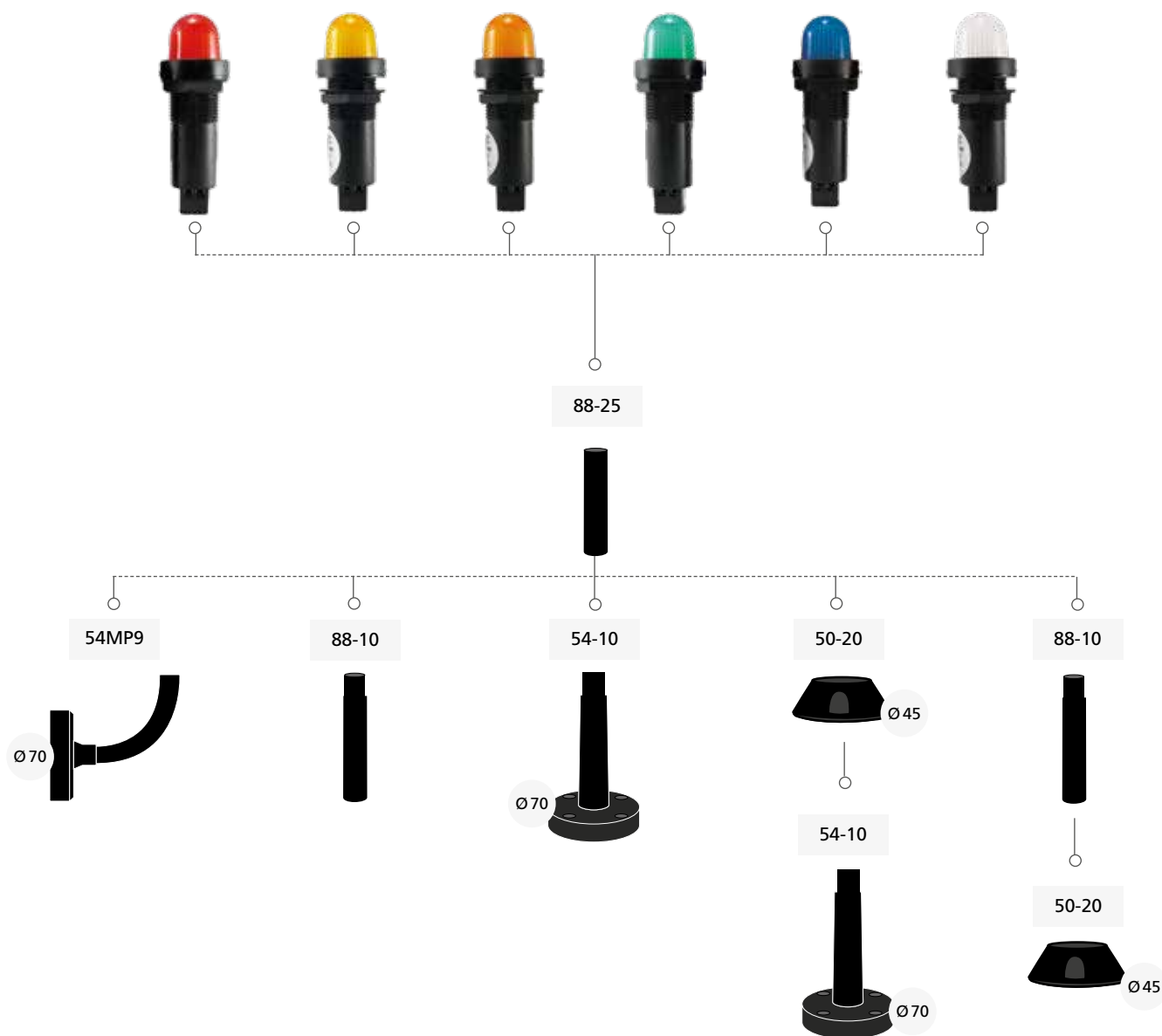
COLOR	Codes and data for ordering	COLOR	Codes and data for ordering
	CD S124B		CD S6124B
	CD S134B		CD S6134B
	CD S144B		CD S6144B
	CD S154B		CD S6154B
	CD S164B		CD S6164B
	CD S194B		

Flashing light



COLOR	Codes and data for ordering	COLOR	Codes and data for ordering
	CD S224B		CD S6224B
	CD S234B		CD S6234B
	CD S244B		CD S6244B
	CD S254B		CD S6254B
	CD S264B		CD S6264B
	CD S294B		

Structure



Accessories

	Ø 45 mm polycarbonate base		Extension pole h 90 mm		Polycarbonate base and pole
50-20		88-25		54-90	
	Metal base with extension pole for 90° fixing		Bases with polycarbona- te extension poles		Polycarbonate extension poles
54MP9		54-10		88-10	

600 serie



600 Series

Optical Signal devices



The 600 series beacons are characterized by their ability to communicate remotely. Fresnel lens or reflector to optimize light output. LED lighting ensures high brightness and efficiency. These beacons have an extraordinary behavior even in the presence of shocks and vibrations.

Technical features



Compliance

Directive CEE 2014/35 Low voltage - Directive CEE 2014/30
Electromagnetic compatibility - Directive CEE 2006/42 Machinery

Conformity to standards

EN 60204.1 - EN 60947.5.1 - EN 60073 - EN 60529 -
EN 60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Material

dome polycarbonate (UV); ABS base (UV)

Operating voltage

24 V DC; 115 V AC; 230 V AC

Current consumption

24 V, 35 mA - 115 V, 20 mA - 230 V, 20 mA
24 V, 0.70A - 115 V, 0.10A - 230 V, 0.06A (Xenon)

Protection degree

IP 65 - EN 60529

Protection against electric shock

class II, safety insulation

Resistance to vibrations

2 day min (10-150 Hz)

Operating temperature

- 25° C + 55° C

Lens color



Connections

With screw cable clamp (max cable 1,5 mm²).

Dimensions

(Ø x height)

For steady light 115 mm x 205 mm

For flashing or rotating light 150 mm x 205 mm

STEADY LIGHT BEACONS

A signaling device that allows for high efficiency LED lighting optimized by the Fresnel lens.
High brightness, low consumption, controlled by remote source (PLC, control panel etc.)

Technical features

Light output

high brightness LEDs, type BA 15d

Operating voltage

24 V DC - 115 V AC - 115 / 230 V AC

Current consumption






24 V, <110 mA

115 V, <30 mA

230 V, <25 mA



Fresnel Lens

COLOR	Codes and data for ordering		
	24 V DC	115 V AC	115 / 230 V AC
	LF12-4B	LF12-4F	LF12-4G
	LF13-4B	LF13-4F	LF13-4G
	LF15-4B	LF15-4F	LF15-4G
	LF16-4B	LF16-4F	LF16-4G
	LF19-4B	LF19-4F	LF19-4G

FLASHING LIGHT BEACONS

A signaling device with high efficiency XENON lighting also optimized by the Fresnel lens.

High brightness, low consumption and high vibration resistance are the characteristics that guarantee a long life.

Technical features

Light output

Xenon bulb -10J

Operating voltage

24 V DC with Diode Polarised

115 V AC; 230 V AC

Current consumption






24 V, 0,70A

115 V, 0,10A

230 V, 0,06A



Fresnel Lens

COLOR	Codes and data for ordering		
	24 V DC	115 V AC	115 / 230 V AC
	LX32-24	LX32-15	LX32-30
	LX33-24	LX33-15	LX33-30
	LX35-24	LX35-15	LX35-30
	LX36-24	LX36-15	LX36-30
	LX39-24	LX39-15	LX39-30

ROTATING LIGHT BEACONS

The **new range of LED rotating light beacons, without moving parts** replace the traditional with reflective parabolic. For this function are used **18 super bright LEDs separated by reflective mirrors** that amplify the light beam. These new rotating beacons provide remote visible signals and are ideal for industrial alarm signalling. Continuous operation, low power consumption, long life. Extraordinary behaviour even in the presence of shocks and vibrations



Technical features

Light output

18 high brightness LEDs, type BA 15d

Operating voltage

24 V DC

115 V - 230 V AC






Current consumption






24V, 330 mA; 115V - 230V, 60 mA

Rotation frequency

max 120 RPM (revolutions per minute)



COLOR	Codes and data for ordering
	24 V DC - Colored dome
	LA52-4B
	LA53-4B
	LA55-4B
	LA56-4B
	LA59-4B

COLOR	Codes and data for ordering
	115 V AC - 230 V AC
	LR52-W0
	LR53-W0
	LR55-W0
	LR56-W0
	LR59-W0



The background image shows an industrial refinery at night. Several tall distillation columns are visible, illuminated by bright lights. Plumes of orange smoke or steam rise from the facility against a dark blue sky. In the foreground, a wet, reflective surface shows the lights and structures of the refinery. Two red ATEX Beacons are overlaid on the right side of the image. The text 'ATEX Beacons' is centered in the lower half of the image.

ATEX
Beacons



ATEX series

Bicolor hazardous areas beacon

II 2G EX D T6 GB/ II 2D EX TB IIIC T85°C DB IP65



TEX 30 enclosure

TEX 10 enclosure

BICOLOR beacon, 1 **device**, and 2 **signalling**. **High brightness LEDs**, **flashing** or **steady light**. Hardy housing composed of a low copper **aluminium base** and on one side **borosilicate glass high mechanical strength**. Suitable for use in all environments with both gas and dust. Only mines are excluded. **High protection class**,
Categories: 2G (zone 1 and 2); 2D (zone 21 and 22)

Technical Features



Compliance

Directive 2014/34/UE ATEX | Directive 2014/35/UE Low Voltage
 Directive 2014/30/UE electromagnetic compatibility | Directive
 2006/42/ Machinery

Conformity to standards

EN 60079-0 - EN 60079-1 - EN 60079-31 - EN 60947.5.1 -
 EN 61241-0 - EN 61241-1 - EN 60204.1 - EN 60073 - EN 60529 -
 EN 60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Certifications

INERIS 01 ATEX0072X

Enclosure

Alluminium alloy, copper-free (high corrosion resistance), sturdy
 borosilicate glass dome and stainless steel cage guard AISI 304.

Cable entries

¾" NPT or M25 x 1.5mm (if required)

Operating voltage

24V AC/DC (+/- 10%)

Current consumption

50 mA

Lighting

High brightness LEDs

Light output

Steady or flashing light

Protection degree

IP65

Operating temperature

-20° C + 60° C

Working cycle

100%

Connections

with screw clamps max 1,5 mmq.

Size

Tex10 135x190; Tex30 135x195

Weight

1,5 Kg

ATEX BICOLOR



Part codes	Description
TEX10AA4B32B	BICOLOR beacon, orange and red, flashing light, direct mounting in every position, enclosure type 10 without cage guard. Cable entries 3/4" NPT
TEX10AA4B52B	BICOLOR beacon, red and green, flashing light, direct mounting in every position, enclosure type 10 without cage guard. Cable entries 3/4" NPT
TEX10AA4F32B	BICOLOR beacon, orange and red, steady light, direct mounting in every position, enclosure type 10 without cage guard, cable entries 3/4" NPT
TEX10AA4F52B	BICOLOR beacon, red and green, steady light, direct mounting in every position, enclosure type 10 without cage guard, cable entries 3/4" NPT
TEX30AA4B32B	BICOLOR beacon, orange and red, flashing light, cable entries 3/4" NPT, enclosure type 30 without cage guard
TEX30AA4B52B	BICOLOR beacon, red and green, flashing light, cable entries 3/4" NPT, enclosure type 30 without cage guard
TEX30AA4F32B	BICOLOR beacon, orange and red, steady light, cable entries 3/4" NPT, enclosure type 30 without cage guard
TEX30AA4F52B	BICOLOR beacon, red and green, steady light cable entries 3/4" NPT, enclosure type 30 without cage guard

For particular executions, please sign:

0M

Cable entries
M25x1,5 mm

V7

Grey epoxy enclosure
RAL 7000

GB

Cage guard
AISI 304

Example part code BICOLOR beacon, green and red, steady light with grey enclosure type 30, M25 mm cable entries and cage guard: **TEX30AAF52B/0M/V7/GB**

ATEX Series

Multicolor hazardous areas beacons

II 2G EX D T6 GB / II 2D EX TB IIIC T85°C DB IP65



TEX 50 enclosure

QUADRICOLOR and **TRICOLOR** beacons, when two or more alarms are present, the color lights up alternatively according to the event occurred. **MULTICOLOR beacon replaces totally any kind of stacklights**. Possibility to select function **steady** or **flashing light**. **Hardy housing** composed of a low copper **aluminium base** and on one side **borosilicate glass high mechanical strength**. Suitable for use in all environments with both gas and dust. Only mines are excluded. **High protection class**. **Categories: 2G (zone 1 and 2); 2D (zone 21 and 22)**.

Technical features



Compliance

Directive 2014/34/UE ATEX | Directive 2014/35/UE Low Voltage | Directive 2014/30/UE Elettromagnetic | Directive 2006/42/ Machinery

Conformity to standards

EN 60079-0 - EN 60079-1 - EN 60079-31 - EN 60947.5.1 - EN 61241-0 - EN 61241-1 - EN 60204.1 - EN 60073 - EN 60529 - EN 60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Certifications

INERIS 01 ATEX0072X

Enclosure

Alluminium alloy, copper-free (high corrosion resistance), sturdy borosilicate glass dome and stainless steel, cage guard AISI 304.

Cable entries

¾" NPT or M25 x 1.5 mm (if requested)

Operating voltage

24V AC/DC (+/- 10%)

Current consumption

90 mA

Lighting

High brightness LEDs

Light output

Steady or flashing light

Protection degree

IP65

Operating temperature

-20° C- + 60° C

Working cycle

100%

Connections

with screw clamps max 1,5 mmq.

Size

152x245

Weight

1,5 Kg

MULTICOLOR BEACONS



Part codes	Description
TEX5004QIB	QUADRICOLOR beacon, green, blue, amber and red; cable entries ¾" NPT, enclosure type 50 without cage guard
TEX50MZ4T5B 532	TRICOLOR beacon, green, amber and red; cable entries ¾" NPT, enclosure type 50 without cage guard
TEX50MZ4T5B 632	TRICOLOR beacon, blue, amber and red; cable entries ¾" NPT, enclosure type 50 without cage guard

For order with particular execution, please add:

0M

M25x1,5 mm
cable entries

V7

Gray epoxy enclosure
RAL 7000

GB

Cage guard
AISI 304

Example part code: TRICOLOR beacon, green, amber and red, with gray enclosure type 50, cable entries M25 and cage guard: **TEX50MZ4T5B532/0M/V7/GB**

ATEX Series

Flashing or Steady hazardous areas beacons

II 2G EX D T6 GB / II 2D EX TB IIIC T85°C DB IP65



TEX 30 enclosure



TEX 10 enclosure

Flashing or Steady beacon, high brightness LEDs, visible even at a great distance. Compact and easy to install. Hardy housing composed of a low copper aluminium base and on one side borosilicate glass high mechanical strength. Suitable for use in all environments with both gas and dust. Only mines are excluded. High protection class. Categories: 2G (zone 1 and 2); 2D (zone 21 and 22)

Technical features



Compliance

Directive 2014/34/UE ATEX | Directive 2014/35/UE Low Voltage
Directive 2014/30/UE electromagnetic compatibility | Directive
2006/42/ Machinery

Conformity to standards

EN 60079-0 - EN 60079-1 - EN 60079-31 - EN 60947.5.1 -
EN 61241-0 - EN 61241-1 - EN 60204.1 - EN 60073 - EN 60529 -
EN 60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Certifications

INERIS 01 ATEX0072X

Enclosure

Alluminium alloy, copper-free (high corrosion resistance), sturdy
borosilicate glass dome and stainless steel cage guard AISI 304.

Cable entries

¾" NPT or M25 x 1.5mm (if required)

Operating voltage

24V AC/DC - 115 V AC - 230 V AC

Current consumption

24 V < 110 mA – 115 V < 25 mA – 230 V < 15 mA

Lighting

High brightness 45 LEDs

Light output

Steady or flashing light

Protection degree

IP65

Operating temperature

-20° C + 60° C

Working cycle

100%

Connections

with screw clamps max 1,5 mmq.

Size

Tex10 135x190; Tex30 135x195

Weight

1,5 Kg

FLASHING OR STEADY EXPLOSION-PROOF SIGNALS



Codes and data for ordering

24 V AC/DC

115 V AC

230 V AC

Flashing light

TEX10AA2LH4B

TEX10AA2LH4F

TEX10AA2LH4G

TEX30AA2LH4B

TEX30AA2LH4F

TEX30AA2LH4G

Steady light

TEX10AA2FH4B

TEX10AA2FH4F

TEX10AA2FH4G

TEX30AA2FH4B

TEX30AA2FH4F

TEX30AA2FH4G

For order with particular executions please add:

2

Red beacon

3

Orange beacon

4

Yellow beacon

5

Green beacon

6

Blue beacon

9

White beacon

0M

M25x1,5 mm
cable entries

V7

RAL 7000 grey enclosure,
other colours on request

GB

Cage guard AISI 304

Example part code: standard beacon with encluse type 10, flashing red, operating voltage
24 V with cage guard, type: **TEX10AA2LH4B/2/GB**

ATEX Series

Hazardous areas beacons

II 2G EX D T6 GB / II 2D EX TB IIIC T85°C DB IP65



TEX 50 enclosure

Flashing or **Steady** beacon, high brightness LEDs, visible even at distance. **Compact and easy to install.**

Hardy housing composed of a low copper **aluminium base** and on one side **borosilicate glass high mechanical strength**. Suitable for use in all environments with both gas and dust. Only mines are excluded.

High protection class. Categories: 2G (zone 1 and 2); 2D (zone 21 and 22).

Technical features



Compliance

Directive 2014/34/UE ATEX | Directive 2014/35/UE Low Voltage
Directive 2014/30/UE electromagnetic compatibility | Directive
2006/42/ Machinery

Conformity to standards

EN 60079-0 - EN 60079-1 - EN 60079-31 - EN 60947.5.1 - EN
61241-0 - EN 61241-1 - EN 60204.1 - EN 60073 - EN 60529 - EN
60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Certifications

INERIS 01 ATEX0072X

Enclosure

Alluminium alloy, copper-free (high corrosion resistance), sturdy
borosilicate glass dome and stainless steel cage guard AISI 304.

Cable entries

¾" NPT or M25 x 1.5mm (if required)

Operating voltage

24V AC/DC - 115 V AC - 230 V AC

Current consumption

24 V < 110 mA – 115 V < 25 mA – 230 V < 15 mA

Lighting

High brightness 45 LEDs

Light output

Steady or flashing light

Protection degree

IP65

Operating temperature

-20° C + 60° C

Working cycle

100%

Connections

with screw clamps max 1,5 mmq.

Size

152x245

Weight

1,5 Kg

FLASHING OR STEADY EXPLOSION-PROOF SIGNALS



Codes and data for ordering

24 V AC/DC

115 V AC

230 V AC

Multifunctional (flashing, steady or rotating light)

TEX50M4HB

-

-

Flashing light

TEX502H4B

TEX502H4F

TEX502H4G

Steady light

TEX501H4B

TEX501H4F

TEX501H4G

For order with particular executions, please complete with:

2

Red

3

Orange

4

Yellow

5

Green

6

Blue

9

White

0M

M25x1,5 mm
cable entries

V7

RAL 7000 grey enclosure
other colours on request

GB

Cage guard
AISI 304

Example part code: standard beacon with enclosure type 50, flashing Red, operating voltage 24V
with cage guard type: **TEX502H4B/2/GB**

Led and filament
bulbs





LED and filament bulbs

LED bulbs use a **monochromatic light source**, the light is so defined when it consists of electromagnetic waves that have the same wavelength (except white LEDs which are normally bichromatic).

Always use LED bulbs with lens having the same color.

The use of white light LED bulbs coupled with caps of other colors, they restore the filter function of the caps with the sole purpose of reducing the light output.

Life over 25.000 hours. No maintenance or assistance costs.

Low current consumption and **perfect performance** even in the presence of strong vibrations or shocks.

Bulbs colors



Sold in packs of **10 bulbs**

BULBS with 10 SMD LEDs

Bulbs with 10 SMD LEDs **360 ° diffused light** and frontally.

BA 15d connection. Particularly suitable for use in stack lights and beacons.



Technical features

Operating voltage

12V - 24V - 48V - 115V - 230V (other on request)

Colors









Dimensions

Ø 19x H41

Current consumption

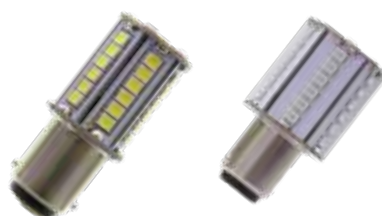
24 V DC/AC, < 50 mA - 115 V AC, < 18 mA 230 V AC, < 17 mA

COLORS	Codes for ordering			
	12V DC-AC	24 V DC-AC	48V AC	115V - 230V AC
	11EA2	11EB2	-	11EG2
 	-	11EB4	-	11EG4
	-	11EB5	-	11EG5
	-	11EB6	-	11EG6
	11EA9	11EB9	11ED9	11EG9

BULBS with 45 SMD LEDs

Bulbs with 10 SMD LEDs **360 ° diffused light** and frontally.

BA 15d connection. Particularly suitable for use in stack lights and beacons.



KB e KG Type

HE Type

Technical features

Operating voltage

24V - 115V- 230V (other on request)

Colors



Dimensions






Ø 20x H44 type KB - KG

Ø 25x H47 type HE only

Current consumption

24 V DC/AC, < 110 mA - 115 V AC, < 30 mA 230 V AC, < 25 mA

BULBS with 45 SMD LEDs

COLORS	Codes for ordering		
	24 V DC-AC	115V AC	115V - 230V AC
	11KB2	11HE2	11KG2
	11KB4	11HE4	11KG4
	11KB5	11HE5	11KG5
	11KB6	11HE6	11KG6
	11KB9	11HE9	11KG9

Bulbs with LED BA 9s

LED bulbs with front light. **BA 9s connection.**

Particularly suitable for use in indicator lights and bright buttons.



Technical features

Operating voltage

12 V – 24 V – 48 V – 115 V – 230 V (other on request)

Colors








Dimensions

Ø 10 x H27 - Ø 10 x H24 (only for 1Y1B...series)

Current consumption

24 V DC/AC, < 20 mA - 115 V AC, < 8 mA – 230 V AC, < 5 mA

COLORS	Codes for ordering				
	12V DC-AC	24 V DC-AC	48V AC	115 V AC	230 V AC
	1Y1A2	1Y1B2	1Y1D2	1Y1F2	1Y1G2
	1Y1A4	1Y1B4	1Y1D4	1Y1F4	1Y1G4
	1Y1A5	1Y1B5	1Y1D5	1Y1F5	1Y1G5
	1Y1A6	1Y1B6	1Y1D6	1Y1F6	1Y1G6
	1Y1A9	1Y1B9	1Y1D9	1Y1F9	1Y1G9

FILAMENT BULBS

Sturdy and shock-proof filament bulbs. **BA 15d connection.**

Life 2000 working hours.



Technical features

Operating voltage

12V - 24V - 30V - 115V - 230V

Dimensions

Ø 16x H35

Codes for ordering

12 V DC-AC		24V DC-AC		30 V		115 V AC		230 V AC	
11-12	5W	11S24	5W	1130V	5W	11E15	5W	11E30	5W
-		11B10	10W	-		11F60	60W	-	
-		11B21	21W	-		-		-	
-		11B45	45W	-		-		-	

Notes



Audio indicators

230 Series

Audio optical **indicators**
or audible **indicators**



The acoustic signalling, as the optical one, is used to communicate messages to operator.

Optical audio panel-mounted indicators are characterized by their **great performance**, their continuous operation and **low consumption**.

The 230 series includes a wide range of **piezoelectric** and **magnetic buzzer** for panel-mounting.

The connection is with screw terminals for easy installation.

Technical features

Compliance

Directive CEE 2014/35 Low voltage - Directive CEE 2014/30
Electromagnetic compatibility - Directive CEE 2006/42 Machinery

Conformity to standards

EN 60947.5.1 - EN 60204.1 - EN 60073 - EN 60529 -
EN 60068.2.6 - EN60068-2-27 - EN ISO 7731 - EN 981

Material

Polycarbonate (PC) / ABS

Sound frequency

from 600 to 3500 Hz

Sound power

from 78 to 100 dB

Operating temperature

- 20° C + 50° C

Resistance to vibrations

Min 2 days (10-150 Hz) accordance EN 60068-2-6.

Light



Connections

With screw terminals or wires

ECX2071

Combined indicator for panel mounting (\varnothing 22 mm). **Pulse light** and **audible** signal.



Technical features

Frequency sound

+/- 3.500 Hz

Signal repetition

+/- 1 Hz

A-weighted sound power detected at 1 m

78 dB

Protection degree

IP 20

Operating voltage

24 V AC/DC, 115 V AC, 230 V AC

Current consumption

24 V / 25 mA - 115 V / 15 mA - 230 V / 10mA

Dimensions

(\varnothing x ledge) 30 mm x 15 mm

Connections

with screw cable clamp. Max 1.5 mm

Codes for ordering

24 V DC/AC	115V AC	115V - 230V AC
ECX2071-24R (Red)	ECX2071-127R (Red)	ECX2071-230R
ECX2071-24Y (amber)	ECX2071-127Y (amber)	-

ECX70

Buzzer for panel mounting (ø 22 mm). **Pulse** sound.



Technical features

Frequency sound / Signal repetition

+/- 3.500 Hz +/- 1 Hz

A-weighted sound power detected at 1 mt

78 dB

Protection degree

IP 20

Operating voltage

24 V AC/DC, 48 V AC, 115 V AC, 230 V AC

Current consumption

24 V / 20 mA - 48 V /25 mA - 115 V / 15 mA

230 V / 10mA

Connections

with screw cable clamp. Max 1,5 mm

Dimensions

(Ø x ledge) 30 mm x 15 mm

Codes for ordering

24 V DC/AC	48V AC	115V AC	115V - 230V AC
ECX2070-24	ECX2070-48	ECX2070-127	ECX2070-230

ECX28100

Buzzer for panel mounting (ø 28 mm). **Pulse** or **continuous** sound.



Technical features

Frequency sound / Signal repetition

+/- 2.900 Hz +/- 1 Hz

A-weighted sound power detected at 1 mt

95 dB

Protection degree

IP 20

Operating voltage

12 V AC/DC, 24 V AC/DC, 48 V AC/DC

Current consumption

12 V / 15 mA - 24 V / 20 mA - 48 V / 25 mA

Connections

with screw cable clamp. Max 1,5 mm

Material

ABS

Dimensions

(Ø x ledge) 43mm x 34 mm

Codes for ordering

12 V DC/AC	24 V DC/AC	48V AC
ECX28100A	ECX28100B	ECX28100D

ECX32100

Buzzer for panel mounting (\varnothing 32 mm). **Pulse** or **continuous** sound.



Technical features

Frequency sound / Signal repetition

+/- 2.900 Hz +/- 1 Hz

A-weighted sound power detected at 1 mt

95 dB

Protection degree

IP 20

Operating voltage

12 (10-28) V DC (ac)

Current consumption

12 V / 15 mA - 24 V / 20 mA

Connections

with screw cable clamp. Max 1,5 mm

Material

ABS

Dimensions

(\varnothing x ledge) 32 mm x 26 mm)

Codes for ordering

12 V DC

ECX32100A

ECX55

Pulse or **continuous** sound.



Technical features

Frequency sound

+/- 600 Hz

A-weighted sound power detected at 1 mt

100 dB

Protection degree

IP 65

Operating voltage

24 (18-30) V DC

Current consumption

60 mA

Connections

with 250 mm long wires

Material

ABS

Dimensions

(\varnothing x ledge) 55x13 mm

Codes for ordering

Pulse

Continuous

ECX55P100B

ECX55C100B

187 Series

Audible **compact** units



The **audible units** of the 187 series report messages to the operator by **sounds**.

The characteristics that distinguish these products are the following:

Two-tone with the possibility of **remote selection** - Assembly possible in multiple ways

Great power and easy installation.

Technical features



Conformity

Directive CEE 2014/35 Low voltage - Directive CEE 2014/30 EMC -
Directive CEE 2006/42 Machinery

Conformity to standars

EN 60947.5.1 - EN 60204.1 - EN 60073 - EN 60529 - EN
60068.2.6 - EN 60068-2-27 - EN ISO 7731 - EN 981

Material

Polycarbonate

Sound frequency

+/- 3700 Hz

Operating temperature

- 20° C + 50° C

Resistance to vibrations

Min 2 days (10-150 Hz) about EN 60068-2-6.

Connections

with screw clamps, max cable size 1,5 mmq

Dimensions

(Ø x height) 85 mm x 78 mm (with base)

(Ø x height) 62 mm x 63 mm (panel mounting)

Audible unit for panel mounting

Audible unit for panel mounting (ø 22 mm). **Pulse** or **continuous** sound.

Technical features

Sound and Signal repetition frequency

+/- 3700 Hz _ +/- 1,2 Hz

Sound power detected at 1 mt distance

Pulse sound 85 dB - Continuous sound 82 dB

Protection degree

IP 54

Operating voltage

24 V DC (18-30 V)

Current consumption

20 mA

Housing

Polycarbonate

Dimensions

(Ø x height) 62 mm x 63 mm

Codes for ordering

AF700CB



Audible unit with base

Audible unit with base. **Pulse** or **continuous** sound.

Technical features

Sound and Signal repetition frequency

+/- 3700 Hz _ +/- 1,2 Hz

Sound power detected at 1 mt distance

Pulse sound 85 dB - Continuous sound 82 dB

Protection degree

IP 54

Operating voltage

24 V DC (18-30 V)

Current consumption

20 mA

Housing

Polycarbonate

Dimensions

(Ø x height) 85 mm x 78 mm

Codes for ordering

AF70FCB



710 Series

Compact **electronic sounders**



The 710 series electronic sounders transmit messages to the operator through multiple **sounds**.

The characteristics that distinguish these products are the following:

From **8 to 28 tones** with possibility of **remote control** of a second tone - **Simple assembly possible in many ways**.

Higher sound output (100 dB) with tone control - High protection

Technical features



Compliance

Directive CEE 2014/35 Low voltage - Directive CEE 2014/30 EMC -
Directive CEE 2006/42 Machinery

Conformity to standards

EN 60947.5.1 - EN 60204.1 - EN 60073 - EN 60529 - EN
60068.2.6 - EN 60068-2-27 - EN ISO 7731 - EN 981

Material

ABS

Sound frequency and power

from 500 to 2900 Hz - max 103 dB

Operating voltage

12/24 V DC - 100 / 260 V AC

Operating Temperature

- 20° C + 50° C

Resistance to vibrations

Min 2 day (10-150 Hz)

Connections

with screw clamps, max cable size 1,5 mmq

Dimensions

(Ø x height) 101 mm x 110 mm

Electronic sounders 100 dB - 28 tones

Technical features

Sound frequency

from 500 to 2900 Hz

Sound power detected at 1 mt distance

Max 103 dB

Protection degree

IP 65

Operating voltage

12 / 24 V DC

Operating temperature

- 20 °C + 50 °C

Housing

ABS

Dimensions

(Ø x height) 101 mm x 100 mm

Current consumption

max 32 mA

Codes for ordering

ECX101K



Electronic sounders 100 dB - 8 tones

Technical features

Sound frequency

from 500 to 2900 Hz

Sound power detected at 1 mt distance

Max 103 dB

Protection degree

IP 65

Operating voltage

100 / 260 V DC

Operating temperature

- 20 °C + 50 °C

Housing

ABS

Dimensions

(Ø x height) 101 mm x 100 mm

Current consumption

max 32 mA

Codes for ordering

ECX080K

12 / 24 V DC

ECX101W

100 / 260 V AC



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