

180 SERIES

Modular visual and audio indicators



A simple bayonet system simplifies the mounting and maintenance, which can be performed in complete safety



The wiring unit can be easily reached and extracted, thus simplifying the wiring operation

The modular structure makes it possible to build at least 5 configurations for each visual unit



8 different ways of fixing

4 kinds of illumination

2 types of domes



TECHNICAL FEATURES

Compliance

EEC Low Voltage directive nr. 2006/95
EEC Electromagnetic Compatibility directive nr. 89/336

Conformity to standards

EN 60947.5.1. - EN 60073 - EN 60529 - EN 60068.2.6 - EN 457 -
EN 981 - IEC 536

Material

Polycarbonate

Voltage

250 V

Protection degree

IP 54 - clamps IP 20 - According to EN 60529

Protection against electrical shock

Class II, double insulation. According to IEC 536

Operating temperature

-20°C +40°C

Resistance to vibrations

2 g min. (10 - 150 Hz) according to EN 60068.2.6

Colors of domes

amber - blue - yellow - neutral - red - green according to EN 60073

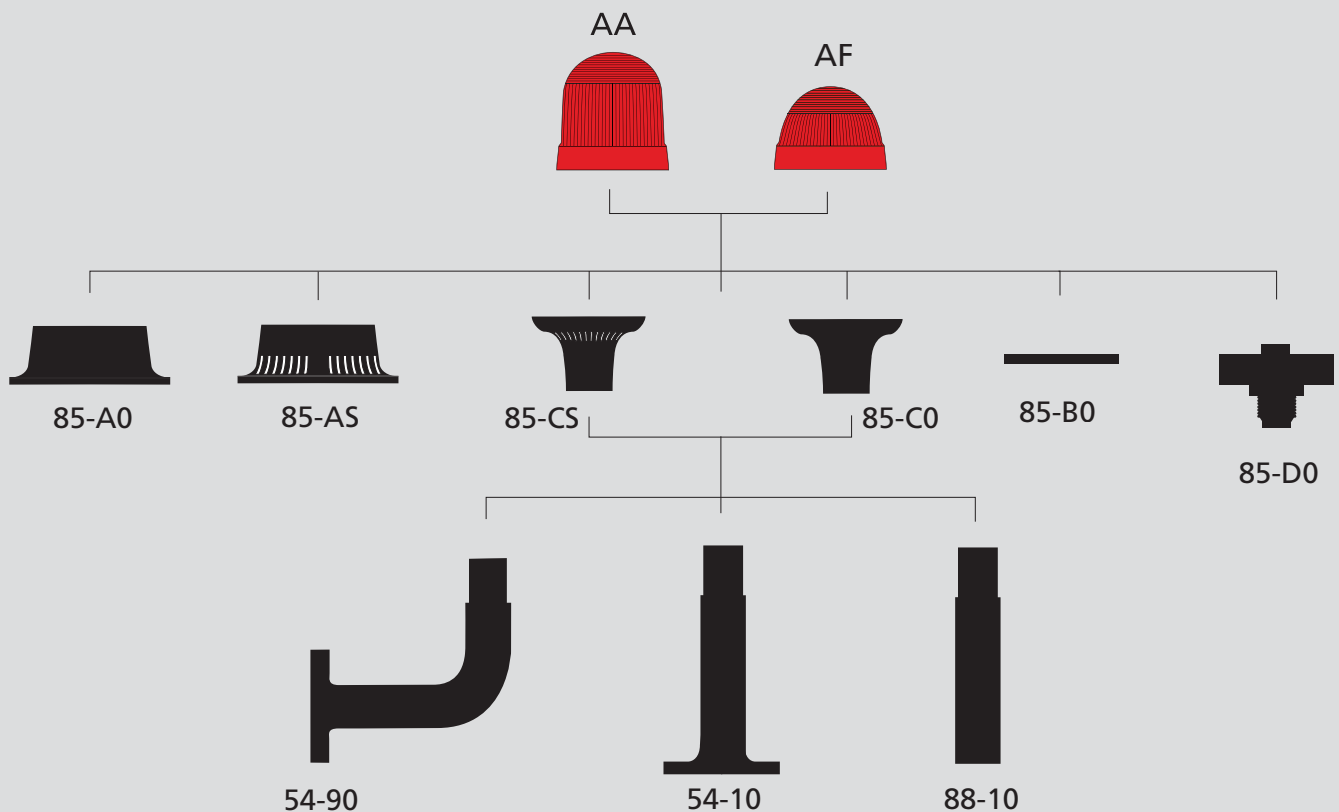
Bulb

Bayonet mounting, type BA 15d - 5 W max.
with flash circuit: Xenon lamp

Connections

By means of screw clamps with binding post
(gauge: max 1,5 mm²)
The wiring unit is under the light element

STRUCTURE



LED LAMPS - STEADY LIGHT

Illumination

by means of 6 ultra bright LEDs

Duration

> 50.000 working hours

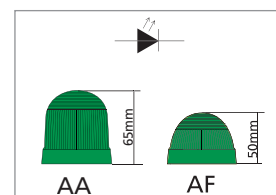
Voltage

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

Current consumption

4 V AC/DC - 40 mA / 115 V - 25 mA

240 V - 18 mA



AA	ORDER CODE AND DATA		AF	ORDER CODE AND DATA	
	Color dome	Neutral dome		Color dome	Neutral dome
color	24 V DC-AC	24 V DC-AC	color	24 V DC-AC	24 V DC-AC
●	AA42-BF	AA642-BF	●	AF42-BF	AF642-BF
●	AA43-BF	AA643-BF	●	AF43-BF	AF643-BF
●	AA44-BF	AA644-BF	●	AF44-BF	AF644-BF
●	AA45-BF	AA645-BF	●	AF45-BF	AF645-BF
●	AA46-BF	AA646-BF	●	AF46-BF	AF646-BF
●	AA49-BF	AA649-BF	●	AF49-BF	AF649-BF



Complete the lamp by using one or more fittings from page 28
To receive a complete lamp, please write first the cap code and then the base code

LED LAMPS - FLASHING OR STEADY LIGHT

To change the function, just move the jumper which is inside

Illumination

by means of 6 ultra bright LEDs

Duration

> 50.000 working hours

Voltage

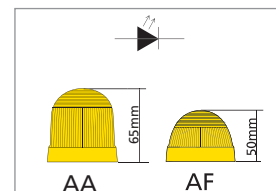
24 V AC/DC

Current consumption

24 V AC/DC - 40 mA

Flash frequency

approx. 1,4 Hz (84 flashes per minute) according to EN 60073



AA	ORDER CODE AND DATA		AF	ORDER CODE AND DATA	
	Color dome	Neutral dome		Color dome	Neutral dome
color	24 V DC-AC	24 V DC-AC	color	24 V DC-AC	24 V DC-AC
●	AA42-BL	AA642-BL	●	AF42-BL	AF642-BL
●	AA43-BL	AA643-BL	●	AF43-BL	AF643-BL
●	AA44-BL	AA644-BL	●	AF44-BL	AF644-BL
●	AA45-BL	AA645-BL	●	AF45-BL	AF645-BL
●	AA46-BL	AA646-BL	●	AF46-BL	AF646-BL
●	AA49-BL	AA649-BL	●	AF49-BL	AF649-BL



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VISUAL AND AUDIO INDICATORS (steady light)

Combined sounder and beacon (flashing) with intermittent audio signal, **common power**.

Voltage

24 V dc (ac)

Current consumption

with incandescent 5 W bulbs: 24 V - 210 mA

Bulb

with bayonet connection type BA 15d, 7W max

Sound

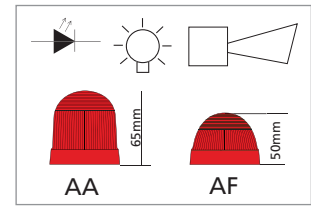
Continuous

Sound frequency

+/- 4000 Hz

Weighed sound level A at one meter

80 dB



AA	ORDER CODE AND DATA		AF	ORDER CODE AND DATA	
color	24 V DC (ac)		color	24 V DC (ac)	
	Filament	LED		Filament	LED
●	AA12-B7	AA124B7	●	A12-B7	AF124B7
●	AA13-B7	AA134B7	●	A13-B7	AF134B7
●	AA14-B7	AA144B7	●	A14-B7	AF144B7
●	AA15-B7	AA154B7	●	A15-B7	AF154B7
●	AA16-B7	AA164B7	●	A16-B7	AF164B7
●	AA19-B7	AA194B7	●	A19-B7	AF194B7



AA



AF

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VISUAL AND AUDIO INDICATORS (flashing)

Combined sounder and beacon (steady) with continuous audio signal, **common power**.

Voltage

24 V dc (ac)

Current consumption

with incandescent 5 W bulbs: 24 V - 220 mA

Bulb

with bayonet connection type BA 15d, 7W max

Flash frequency

approx. 1,4 Hz (84 flashes per minute) according to EN 60073

Sound

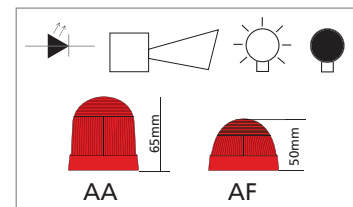
Intermittent

Sound frequency

+/- 4000 Hz

Weighed sound level A at one meter

80 dB



AA	ORDER CODE AND DATA		AF	ORDER CODE AND DATA	
color	24 V DC (ac)		color	24 V DC (ac)	
	Filament	LED		Filament	LED
●	AA22-B7	AA224B7	●	AF22-B7	AF224B7
●	AA23-B7	AA234B7	●	AF23-B7	AF234B7
●	AA24-B7	AA244B7	●	AF24-B7	AF244B7
●	AA25-B7	AA254B7	●	AF25-B7	AF254B7
●	AA26-B7	AA264B7	●	AF26-B7	AF264B7
●	AA29-B7	AA294B7	●	AF29-B7	AF294B7



AA



AF

Complete the lamp by using one or more fittings from page 28.

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LED LAMPS WITH AUDIO SIGNAL DEVICE

Flashing light-intermittent sound; steady light-continuous sound
To change the function just shift the jumper which is inside

Illumination

by means of 6 ultra bright LEDs

Duration > 50.000 working hours

Voltage 24 V AC/DC

Current consumption

24 V AC/DC, 55 mA both with steady light - continuous sound and with flashing light - intermittent sound

Flash frequency

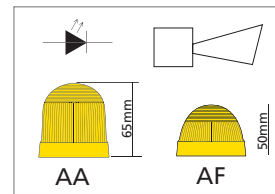
approx. 1,4 Hz (84 flashes per minute) according to EN 60073

Sound frequency

3500 Hz

Weighed sound level A at one meter

intermittent signal 75 dB - continual signal 72 dB



AA COLOR	ORDER CODE AND DATA	
	24V DC-AC flashing light intermittent sound	24V DC-AC steady light continuous sound
●	AA42ABL	AA42ABF
●	AA43ABL	AA43ABF
●	AA44ABL	AA44ABF
●	AA45ABL	AA45ABF
●	AA46ABL	AA46ABF
●	AA49ABL	AA49ABF

AA COLOR	ORDER CODE AND DATA	
	24V DC-AC flashing light intermittent sound	24V DC-AC steady light continuous sound
●	AF42ABL	AF42ABF
●	AF43ABL	AF43ABF
●	AF44ABL	AF44ABF
●	AF45ABL	AF45ABF
●	AF46ABL	AF46ABF
●	AF49ABL	AF49ABF



AA

AF

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STEADY LIGHT LAMPS

Bulb with bayonet connection type BA 15d 5W max

Voltage

24 V - 115 V- 240 V AC/DC

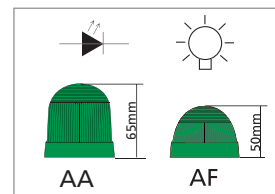
Current consumption

with incandescent 5 W bulbs

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

With LED bulbs

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



AA COLOR	ORDER CODE AND DATA						
	without bulb	24V DC-AC with filament bulbs	115V AC	240V AC	24V DC-AC with LED bulbs	115V AC	240V AC
●	AA12-00	AA12-24	AA12-15	AA12-30	AA12424	AA12415	AA12430
●	AA13-00	AA13-24	AA13-15	AA13-30	AA13424	AA13415	AA13430
●	AA14-00	AA14-24	AA14-15	AA14-30	AA14424	AA14415	AA14430
●	AA15-00	AA15-24	AA15-15	AA15-30	AA15424	AA15415	AA15430
●	AA16-00	AA16-24	AA16-15	AA16-30	AA16424	AA16415	AA16430
●	AA19-00	AA19-24	AA19-15	AA19-30	AA19424	AA19415	AA19430

AF COLOR	ORDER CODE AND DATA						
	without bulb	24V DC-AC with filament bulbs	115V AC	240V AC	24V DC-AC with LED bulbs	115V AC	240V AC
●	AF12-00	AF12-24	AF12-15	AF12-30	AF12424	AF12415	AF12430
●	AF13-00	AF13-24	AF13-15	AF13-30	AF13424	AF13415	AF13430
●	AF14-00	AF14-24	AF14-15	AF14-30	AF14424	AF14415	AF14430
●	AF15-00	AF15-24	AF15-15	AF15-30	AF15424	AF15415	AF15430
●	AF16-00	AF16-24	AF16-15	AF16-30	AF16424	AF16415	AF16430
●	AF19-00	AF19-24	AF19-15	AF19-30	AF19424	AF19415	AF19430



AA

AF

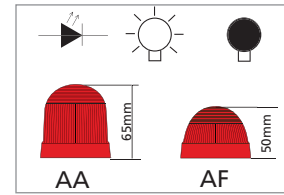
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STEADY OR FLASHING LIGHT LAMPS

To change the function just move the jumper which is inside.
Bulb with bayonet connection type BA 15d - 5W max.

- Voltage** 24 V - 115 V - 240 V AC/ DC
- Current consumption Flashing light** with incandescent 5W bulbs
24 V, 145 mA - 115 V, 25 mA - 230 V, 15 mA
With LED bulbs
24 V, <a 50 mA - 115 V, <a 18 mA - 230 V, <a 17 mA
- Steady light** with incandescent 5W bulbs
24 V, 210 mA - 115 V, 43 mA - 240 V, 22 mA
With LED bulbs
24 V, <a 50 mA - 115 V, <a 18 mA - 240 V, <a 17 mA
- Flash frequency**
approx. 1,4 Hz (84 flashes per minute) according to EN 60073



AA	ORDER CODE AND DATA							
	12-48 V AC/DC without bulb	24-230 V AC without bulb	24V DC-AC 115V AC 240V AC with filament bulbs			24V DC-AC 115V AC 240V AC with LED bulbs		
●	AA22-K0	AA22-W0	AA22-24	AA22-15	AA22-30	AA22424	AA22415	AA22430
●	AA23-K0	AA23-W0	AA23-24	AA23-15	AA23-30	AA23424	AA23415	AA23430
●	AA24-K0	AA24-W0	AA24-24	AA24-15	AA24-30	AA24424	AA24415	AA24430
●	AA25-K0	AA25-W0	AA25-24	AA25-15	AA25-30	AA25424	AA25415	AA25430
●	AA26-K0	AA26-W0	AA26-24	AA26-15	AA26-30	AA26424	AA26415	AA26430
●	AA29-K0	AA29-W0	AA29-24	AA29-15	AA29-30	AA29424	AA29415	AA29430

AF	ORDER CODE AND DATA							
	12-48 V AC/DC without bulb	24-230 V AC without bulb	24V DC-AC 115V AC 240V AC with filament bulbs			24V DC-AC 115V AC 240V AC with LED bulbs		
●	AF22-K0	AF22-W0	AF22-24	AF22-15	AF22-30	AF22424	AF22415	AF22430
●	AF23-K0	AF23-W0	AF23-24	AF23-15	AF23-30	AF23424	AF23415	AF23430
●	AF24-K0	AF24-W0	AF24-24	AF24-15	AF24-30	AF24424	AF24415	AF24430
●	AF25-K0	AF25-W0	AF25-24	AF25-15	AF25-30	AF25424	AF25415	AF25430
●	AF26-K0	AF26-W0	AF26-24	AF26-15	AF26-30	AF26424	AF26415	AF26430
●	AF29-K0	AF29-W0	AF29-24	AF29-15	AF29-30	AF29424	AF29415	AF29430



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LED AND FILAMENT BULBS

LED Bulbs

- Bulb BA 15d**
- Duration > than 25.000 working hours
- No maintenance or service costs
- Perfect operation even in case of strong vibrations and hits
- Low current consumption 24 V DC/AC, < 50 mA - 115 V AC, < 18 mA - 240 V, <17 mA

To be used with alarm devices whose domes have the same colors as the LEDs

COLOR	ORDER CODE AND DATA			ORDER CODE AND DATA		
	24V DC-AC	115V AC	240V AC	24V DC-AC	115V AC	240V AC
●	11TB2	11TF2	11TG2	11VB2	11VF2	11VG2
●				11VB3	11VF3	11VG3
●	11TB4	11TF4	11TG4	11VB4	11VF4	11VG4
●	11TB5	11TF5	11TG5	11VB5	11VF5	11VG5
●	11TB6	11TF6	11TG6	11VB6	11VF6	11VG6
●	11TB9	11TF9	11TG9	11VB9	11VF9	11VG9



FILAMENT LAMPS

- Bulb BA 15d**
- Filament shock-proof
- Duration 2000 hours

ORDER CODE AND DATA				
12V/5W	24V/5W	30V/5W	130V/5W	260V/5W
11-12	11S24	1130V	11E15	11E30

Technical diagrams → see page 40

FITTINGS



85-A0
base: diameter 85 mm



85-AS
base: diameter 85 mm for audio applications



85-B0
thin base: diameter 60 mm



85-D0
base: diameter 60 mm, for 22-mm diameter holes



85-DS
base: diameter 60 mm, for 22-mm diameter holes, for audio applications



85-C0
adapter element



54-10
base: diameter 70 and with integrated tube H 100 mm



88-10
extension tube: height 100 mm



85-CS
adapter element for audio applications



54-90
polycarbonate base: diameter 70mm and with extension tube for 90° fixing



54MP9
metal base with polycarbonate tube for 90° fixing



54MM9
metal base and tube for 90° fixing