

# S 180

## OPTICAL AND AUDIBLE MODULAR DEVICES

### S180 "A CUSTOM MADE LAMP"

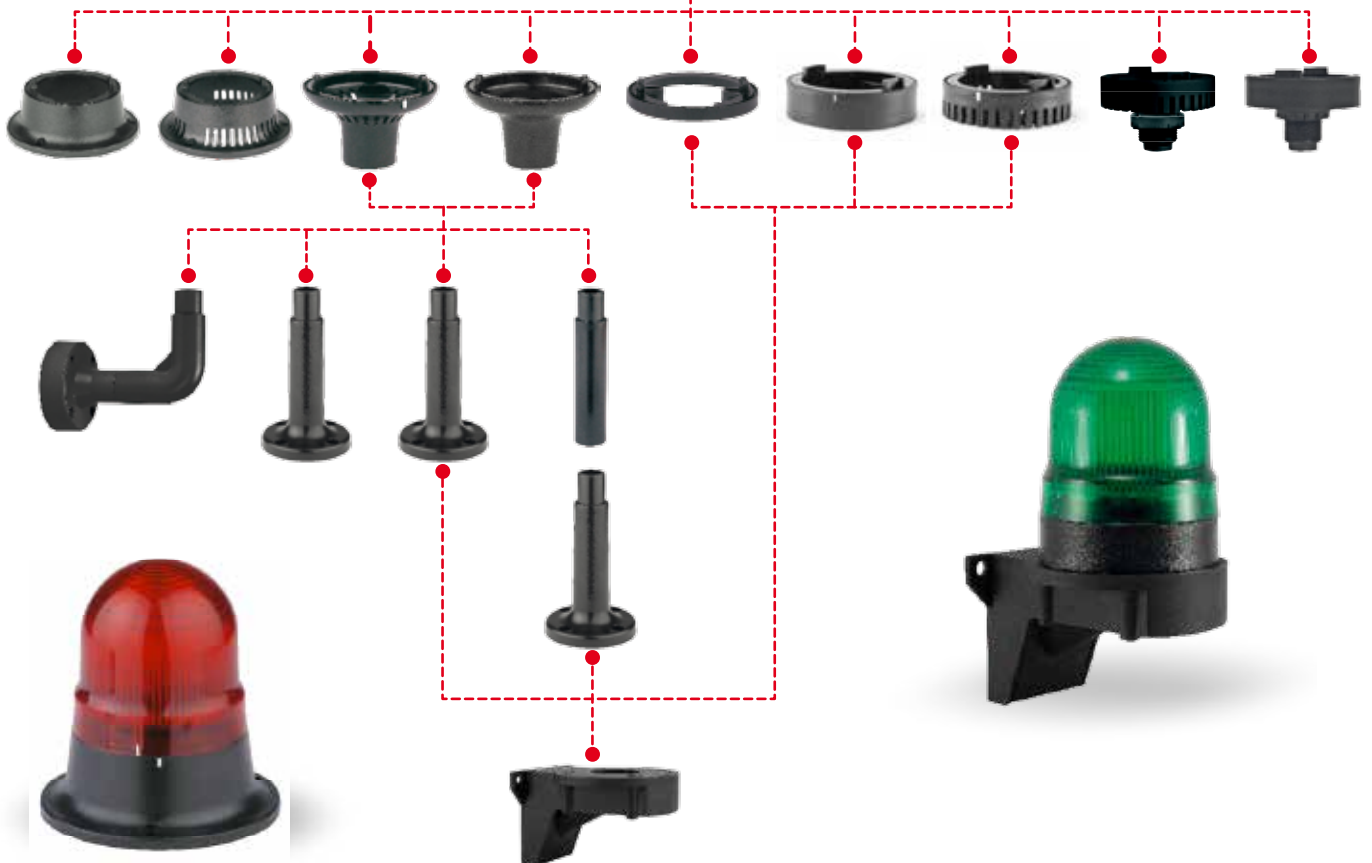
This is our idea that lead us to create and engineering this modular lamp.



- Custom solutions keeping minimized costs and stock
- 10 different type of configurations for each lamp
- 8 different mounting, 4 kind of lights, 2 different domes
- A bayonet insert simplify maintenance and work
- Screw clamp terminal accessible and easy to extract



#### MODULAR CONFIGURATION



## TECHNICAL FEATURES

**Compliance**  
 Directive 2006/95/EC Low Voltage  
 Directive 2004/108/EC Electromagnetic Compatibility  
 Directive 2011/65/EC RhOS  
 Directive 2006/42/EC Machinery  
**Conformity to standards**  
 EN 60947.5.1 - EN 60073 - EN 60529 - EN 60068.2.6 and 27 - EN 60204.1 - EN ISO 7731 - EN 981 - IEC 536  
**Material**  
 polycarbonate (PC)  
**Operating Voltage**  
 max 250 V  
**Protection degree**  
 IP 54 - clamps IP 20 (with bases 85-AS, CS, DS and ES, IP30) - According to EN 60529  
**Protection against electrical shock**  
 class II, double insulation. According to IEC 536  
**Operating temperature**  
 -20°C + 50°C  
**Resistance to vibrations**  
 2 g min. (10 - 150 Hz) according to EN 60068.2.6  
**Lens Color**  
 amber - blue - yellow - neutral - red - green according to EN 60073  
**Connections**  
 with screw cable clamps (max cable size 1,5 mm<sup>2</sup>)



## STEADY OR FLASHING LED LIGHT LAMP

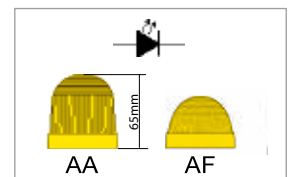
To change the function, shift the jumper inside.

**Light output**  
 by means of ultra bright LEDs

**Lasting**  
 > 50.000 working hours

**Operating Voltage**  
 24 V AC/DC -40 mA

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



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

Flashing light

Steady light

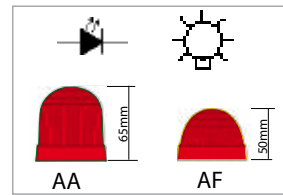
Flashing light

Steady light

Accessories, see page 43/44

**STEADY LIGHT UNIT**

Bulb with bayonet connection type BA 15d 5W max.  
 Operating Voltage 24 V - 115 V- 240 V AC/DC  
 Current consumption with 5W  
 Filament 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, < 17 mA  
 Light output by means of 6 ultra bright LEDs  
 Lasting > 50.000 working hours  
 Operating Voltage 24 V AC/DC – 115 V – 240 V AC/DC  
 Current consumption with LED bulbs 24 V - 50 mA ,115 V - 18 mA, 240 V - 17 mA  
 with filament bulb 5W: 24 V - 210 mA ,115 V - 43 mA, 240 V - 22 mA



AA		ORDER CODES					
COLOR	without bulb	24V DC-AC filament bulb included	115V AC filament bulb included	240V AC filament bulb included	24V DC-AC LED bulb included	115V AC LED bulb included	240V AC LED bulb included
●	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



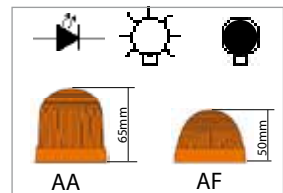
AF		ORDER CODES					
COLOR	without bulb	24V DC-AC filament bulb included	115V AC filament bulb included	240V AC filament bulb included	24V DC-AC LED bulb included	115V AC LED bulb included	240V AC LED bulb included
●	AF12-00	AF12-24	AF12-15	AF12-30	AF12424	AF12415	AF12430
●	AF13-00	AF13-24	AF13-15	AF13-30	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



Accessories, see page 43/44

**STEADY OR FLASHING LIGHT UNIT**

To change the function, shift the jumper is inside.  
 Bulb with bayonet connection type BA 15d - 5W max.  
 Operating 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 aM - 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 CODES						
COLOR	12-48 V AC/DC without bulb	24-230 V AC without bulb	24V DC-AC filament bulb included	115V AC filament bulb included	240V AC filament bulb included	24V DC-AC LED bulb included	115V AC LED bulb included	240V AC LED bulb included
●	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



AA		ORDER CODES						
COLOR	24-230 V AC without bulb	12-48 V AC/DC without bulb	240V AC filament bulb included	24V DC-AC filament bulb included	115V AC filament bulb included	240V AC LED bulb included	24V DC-AC LED bulb included	115V AC LED bulb included
●	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



Accessories, see page 43/44

**STEADY OR FLASHING LIGHT UNIT WITH INTEGRATED SOUND**

Flashing light unit with integrated pulse sound, common power supply.

Operating Voltage

24 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

Light output

by means of LED or filament bulbs

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

Sound

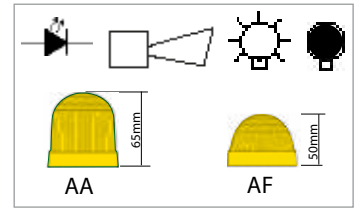
pulse or continuous

Sound frequency

4000Hz

Effective dB determined at a distance of 1 meter from sound module

pulse signal 80 dB



AA	ORDER CODES		AF	ORDER CODES	
	24 V DC (ac)			24 V DC (ac)	
COLOR	filament bulb	LED bulb	COLOR	filament bulb	LED bulb
●	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



Accessories, see page 43/44

**LED LIGHT UNIT WITH INTEGRATED SOUND**

Flashing light unit with pulse sound, steady light unit with continuous sound, common power supply.

To change the function, shift the jumper inside.

Light output

by means of 6 ultra bright LED

Lasting

> 50000 hours

Operating voltage

24v ac/dc

Current consumption

24V AC/DC,55 mA

Flash frequency

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

Sound frequency

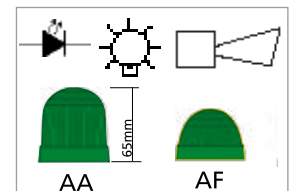
3500 Hz

Repetition signal frequency

1Hz according to EN 457

Effective dB determined at a distance of 1 meter from sound module

pulse signal 80 dB - continuous signal 77 dB (24VDC)



AA	ORDER CODES		AA	ORDER CODES	
	24V DC-AC			24V DC-AC	
COLOR	flashing light with pulse sound	steady light with continuous sound	COLOR	flashing light with pulse sound	steady light with continuous sound
●	AA42ABL	AA42ABF	●	AF42ABL	AF42ABF
●	AA43ABL	AA43ABF	●	AF43ABL	AF43ABF
●	AA44ABL	AA44ABF	●	AF44ABL	AF44ABF
●	AA45ABL	AA45ABF	●	AF45ABL	AF45ABF
●	AA46ABL	AA46ABF	●	AF46ABL	AF46ABF
●	AA49ABL	AA49ABF	●	AF49ABL	AF49ABF



Accessories, see page 43/44

## LED LIGHT LAMP WITH INTEGRATED SOUND, SEPARATED CONTROL

Separated control  
pre-set with flashing light and pulse sound (to change the function shift the jumper inside)

Light output  
by means of ultra bright LEDs

Lasting  
> 50.000 working hours

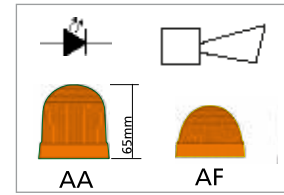
Operating Voltage  
12 or 24 V AC/DC

Current consumption  
24 V, 60 mA

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

Sound frequency  
2900 Hz

Effective dB determined at a distance of 1 meter from sound module  
pulse signal 85 dB - continuous signal 82 dB (24VDC)



AA	ORDER CODES		AF	ORDER CODES	
	12 V DC-AC	24 V DC-AC		12 V DC-AC	24 V DC-AC
COLOR			COLOR		
●	AA427AL	AA427BL	●	AF427AL	AF427BL
●	AA437AL	AA437BL	●	AF437AL	AF437BL
●	AA447AL	AA447BL	●	AF447AL	AF447BL
●	AA457AL	AA457BL	●	AF457AL	AF457BL
●	AA467AL	AA467BL	●	AF467AL	AF467BL
●	AA497AL	AA497BL	●	AF497AL	AF497BL

Accessories, see page 43/44



## BULBS

### LED bulbs BA 15d

COLOR	ORDER CODES					
	24V DC-AC	115V AC	240V AC	24V DC-AC	115V AC	240V AC
●	11EB2	11EF2	11EG2	11KB2	11KF2	11KG2
●	11EB4	11EF4	11EG4	11KB4	11KF4	11KG4
●	11EB5	11EF5	11EG5	11KB5	11KF5	11KG5
●	11EB6	11EF6	11EG6	11KB6	11KF6	11KG6
●	11EB9	11EF9	11EG9	11KB9	11KF9	11KG9

Bulb "K"  
only for AA



### Filament bulbs BA 15d

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



## ANTI-TAMPERING LOCK

- A screw block the wilful un-mount of light lamp
- Un-mount is possible only with tools
- This kind of lamp is sold assembled

TYPE	DESCRIPTION
-0Q	add this following partial code to the product when ordering



## ClickClack ACCESSORY

- An easy rotation allow a quick installation without tool
- Quick lamp un-mount after assembly
- Reduce machinery obstruction (important for shipment)
- Lesser packaging and cheaper delivery costs, flawless and quick installation matched with connector version



TYPE	DESCRIPTION
80-KK	80-kk click clack accessory for easy installation and removal of stack light

# BASES



**85-A0**  
Base diam. 85 mm



**85-AS**  
Base diam. 85 mm for acoustic



**85-B0**  
Shallow base diam. 60 mm



**85-E0**  
Base diam. 60 mm



**85-ES**  
Base diam. 60 mm for acoustic



**85-D0**  
Base for 22 mm hole mounting



**85-DS**  
Base for acoustic, 22 mm hole mounting



**85-C0**  
Adapter element



**85-CS**  
Adapter for acoustic element



**54-10**  
Base diam. 70 mm with 100 mm pole



**88-10**  
Extension pole, height 100 mm



**55P62**  
Bracket for 90° fixing



**54-90**  
Base with polycarbonate poles for 90° fixing



**54MP9**  
Metal base with 90° polycarbonate extension pole



**54MM9**  
Metal base and 90° extension pole

# PRE-ASSEMBLED JUNCTION BOXES

## WITH OPTICAL AND AUDIO DEVICES

- This system enable to create the most varied applications and configurations



- Arranged for mounting bases type 85-D0 and 85-D5



- The junction boxes have drills and cable glands included

### TECHNICAL FEATURES

#### Dimensions

For one indicator: 70x70x51

For two indicators: 70x140x51

#### Protection degree

IP65

#### Pre-set

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

#### Material

ABS (RAL 7035)

#### Operating temperature

-25° + 70° C

#### ORDER CODES

pre-assembled for 1 lamp	CS 1001
pre-assembled for 2 lamps	CS 1002
standard junction box for 1 lamp	CS 1101
standard junction box for 2 lamps	CS 1102

