

AMBER/serviline

signaling & lighting for heavy equipment

GENERAL CATALOGUE



SIRENA

**MORE THAN
BRIGHT IDEAS**



AMBER/serviline

signaling & lighting for heavy equipment

INTRODUCTION

Sirena's mission is to provide road workers with an extensive choice of signaling and lighting products, ensuring an intensive warning effectiveness and suitable lights for the working environment.

AMBER/serviline offers a complete range of devices:

- Light bars, optimized for the specific professional requirements
- Beacons (available with LED, halogen or Xenon technology) in conformity with UNECE Regulation No. 65 and Norms concerning electromagnetic compatibility
- Search and Work Beams specifically engineered for the requirements of heavy equipment
- Linear Warning Lights with built-in LED technology
- Temporary Emergency Signaling Devices complete our portfolio.

AMBER/serviline
by Sirena

**Outstanding
performance under
the most critical
operating conditions.**

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signaling & lighting for heavy equipment

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LIGHT BARS

Four different concepts have been developed specifically to meet the end-user requirements:

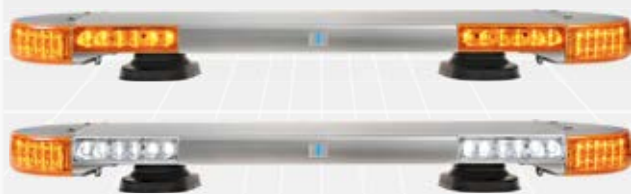
LOW BAR with exclusive low profile design, developed with the latest generation LED. Available in various lengths

NEW COMPACT: multi-function signaling light bars available in various configurations. Xenon or LED luminous source. Can be complemented with motorized search beam, camera, spotlights or rear LED display

E-TUBE: modular concept developed to deliver users with a customized product. LED or halogen light modules, opaline luminous elements available in different lengths

TRAFFIC CONTROLLER: very bright multifunctional LED bar for traffic control operations. Available in two different configurations (7 or 9 elements)



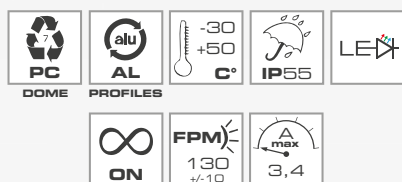


LOW BAR 1000



12 KEY REMOTE CONTROL

- > ECE R65 APPROVED <
- > LOW PROFILE DESIGN <
- > EXCELLENT OPTICAL PERFORMANCE <



ALSO AVAILABLE

Configuration examples:



LOW BAR 1225

Versions with sequential light for traffic control according to different signal directions



LOW BAR 585 M

Extremely strong-hold magnetic versions with helix cable and cigarette lighter plug



Part nos. available on request

LOW BAR

Completely innovative light bar with exclusive low profile design.

Highest LED technology producing a flashing light effect.

Provided with frontal and lateral LED spotlights as well as rear amber parking lights. It is possible to place any type of logo or inscription.

Structure made up of anodized aluminium profiles and polycarbonate domes

Supplied with remote control.

KEY CHARACTERISTICS

VOLTAGE
12V DC

LIGHT EFFECT
FLASHING EFFECT

LIGHT INTENSITY
According to ECE R65

PROTECTION GRADE
IP55

OPERATING TEMPERATURE
-30/+50 °C

MECHANICAL FEATURES

Anodized aluminium profiles and polycarbonate domes

OPTICAL FEATURES

Powerful LED technology allows a high intensity flashing effect

DRAWINGS AND DIMENSIONS

*see LOW BAR configurations on page 10

CERTIFICATIONS



HOMOLOGATION NUMBERS

LOW BAR
(LED LIGHT BAR)

ECE R65 TA1 E3 007127
EMC 2006/28/CE e3 03 1205 (12V)

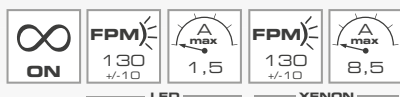
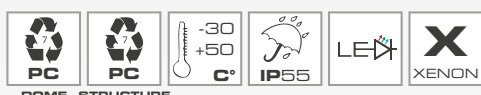


NEW COMPACT



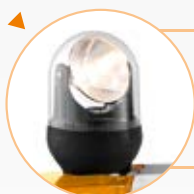
CONTROL UNIT

- > ECE R65 APPROVED <
- > MULTIFUNCTIONAL <
- > EXCELLENT OPTICAL PERFORMANCE <

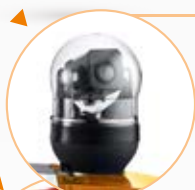


ALSO AVAILABLE

Light bars are available in different configurations with following options:



Radio controlled motorized search beam
Depth or flood light 55W - 120.000 Cd(p) or 100W - 150.000 Cd(p)



Radio controlled motorized camera
Fitted with mechanical zoom 22X + 10X digital
High sensitivity lens allowing visibility even in dim lit environments



Amber parking lights
Frontal, side, rear LED spotlights



Steady depth light
H3 55W halogen spotlights (frontal - side - amber flashing rear)

Part nos. available on request

NEW COMPACT

Multifunctional light bar available with Xenon (4 linear spotlights) or LED technology.

Permanent rear LED display (variable messages). 6 selectable languages (max. 20 pre-recorded messages for each language - max. 10 personalized messages - 10 characters).

NEW COMPACT offers different options suitable for all types of applications: radio controlled motorized search beam or camera, amber LED parking lights, H3 halogen spotlights.

Polycarbonate structure and domes.

Supplied with remote control console with backlit keys and display (version with message panel).

*see NEW COMPACT mount types on page 11

KEY CHARACTERISTICS

VOLTAGE
12V DC

LIGHT EFFECT
LED FLASHING EFFECT
STROBE: 10 Joules

LIGHT INTENSITY
According to ECE R65

PROTECTION GRADE
IP55

OPERATING TEMPERATURE
-30/+50 °C

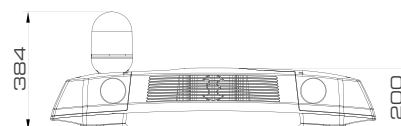
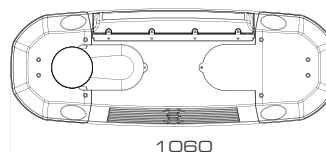
MECHANICAL FEATURES

Polycarbonate structure and domes

OPTICAL FEATURES

Powerful LED or 10 Joules Xenon technology allowing a high intensity flashing effect

DRAWINGS AND DIMENSIONS



CERTIFICATIONS



HOMOLOGATION NUMBERS

NEW COMPACT
(LED LIGHT BAR)

NEW COMPACT
(XENON LIGHT BAR)

ECE R65 TA1 E3 00 7128 A
ECE R65 A1 E3 -
EMC 2006/28/CE e24 03 1622 (12V)

00 7007 A
03 1482 (12V)

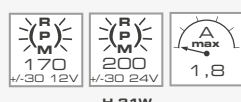
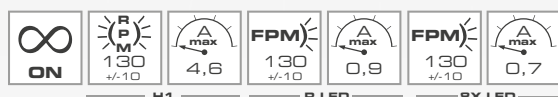


E-TUBE



E-TUBE R21
ROTATING GROUPS
WITH ULTRA SILENT
BELT TRANSMISSION
AND HALOGEN BULB
(H 21W)

> ECE R65 APPROVED <
> MODULAR <
> VERSATILE SOLUTIONS <



E-TUBE

Light bars are available in different configurations and various lengths with following options:



RAH

H1 halogen light source (12V 55W, 24V 70W). Available with one or two rotating groups (synchronized). Gearing with tooth wheel torque



R LED

Optical group made up of 8 LED allowing a high intensity rotating effect



8X LED

Optical group made up of 8 LED allowing a high intensity flashing effect



OPALINE

LED opaline module. It is possible to place any type of logo or inscription.



RLS

LED optical groups with chrome reflecting mirrors, creating the effect of 4 blinking lights

Part nos. available on request

E-TUBE

Modular light bar available with halogen or LED source.

E-TUBE offers various lengths configurations as well as different module technologies (see aside) for all types of applications. Please contact us for further information.

Polycarbonate domes and aluminium profile.

*see E-TUBE mount types on page 11

KEY CHARACTERISTICS

VOLTAGE

RAH: 12V DC - 24V DC
R LED: 12/24V DC
8X LED: 12/24V DC
R21: 12/24V DC

LIGHT EFFECT

RAH: ROTATING
R LED: ROTATING EFFECT
8X LED: FLASHING EFFECT
R21: ROTATING

LIGHT INTENSITY

According to ECE R65

PROTECTION GRADE

IP55

OPERATING TEMPERATURE

-30/+50 °C

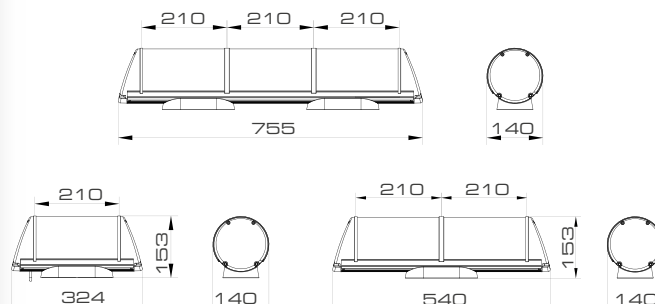
MECHANICAL FEATURES

Polycarbonate domes and aluminium profile

OPTICAL FEATURES

See aside

DRAWINGS AND DIMENSIONS



*further configurations available

CERTIFICATIONS

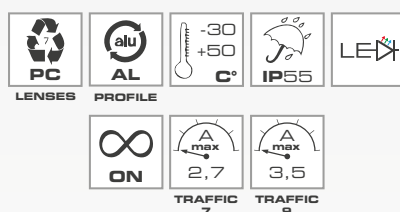


HOMOLOGATION NUMBERS

RAH (H1 55W-70W HALOGEN)
ECE R65 TA1 E4 00 6557
EMC 2006/28/CE e3 03 1198 (12V)
EMC 2006/28/CE e3 03 1199 (24V)
R LED (LED - ROTATING EFFECT)
ECE R65 TA1 E3 00 7101
EMC 2006/28/CE e3 03 1184 (12/24V)
8X LED (LED - FLASHING EFFECT)
ECE R65 TA1 E3 **PENDING**
EMC 2006/28/CE e3 03 1201 (12/24V)
R21 (BA Y9s 21W HALOGEN)
ECE R65 TA1 E3 00 7167
EMC UNECE 10R E3 03 1207 (12/24V)



- > COMPACT SIZE <
- > DIFFERENT FLASHING PATTERNS <
- > EXCELLENT OPTICAL PERFORMANCE <



TRAFFIC CONTROLLER | PART NO

TRAFFIC CONTROLLER 7 (MULTIFUNCTIONAL BAR 7 MODULES)	TRAFFIC CONTROLLER 9 (MULTIFUNCTIONAL BAR 9 MODULES)
12/24V	12/24V
74088	74087

TRAFFIC CONTROLLER new

Compact size multifunctional bar for traffic control operations.

Available with seven or nine LED modules, TRAFFIC CONTROLLER offers excellent optical performance as well as installation versatility.

Structure made up of aluminium profiles and polycarbonate lenses.

Flashing patterns are selected and simulated via control unit.

KEY CHARACTERISTICS

VOLTAGE
12/24V DC

LIGHT EFFECT
SELECTABLE FLASHING PATTERNS

LIGHT INTENSITY
TRAFFIC CONTROLLER 7: 1700 Cd(p)
TRAFFIC CONTROLLER 9: 2000 Cd(p)

PROTECTION GRADE
IP55

OPERATING TEMPERATURE
-30/+50 °C

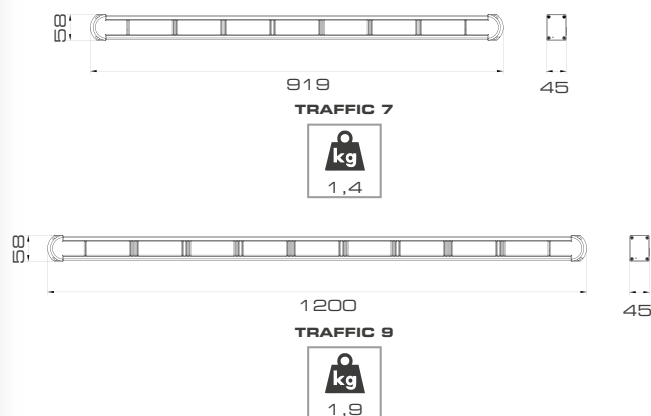
MECHANICAL FEATURES

Aluminium profiles and polycarbonate lenses

OPTICAL FEATURES

Powerful 3-LED modules allowing six different flashing patterns: Single Flash (1F), Double Flash (2F), Alternating Central/Lateral, Centre/Extremity, Left/Right, Right/Left

DRAWINGS AND DIMENSIONS



CERTIFICATIONS



HOMOLOGATION NUMBERS

TRAFFIC CONTROLLER
(MULTIFUNCTIONAL BAR)

EMC UNECE 10R E3 PENDING (12/24V)

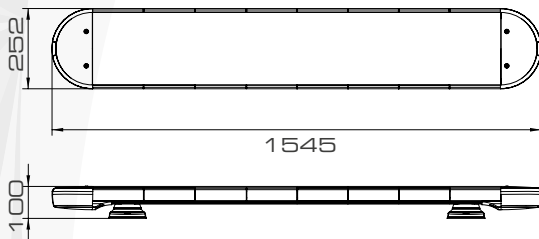
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LOW BAR CONFIGURATIONS

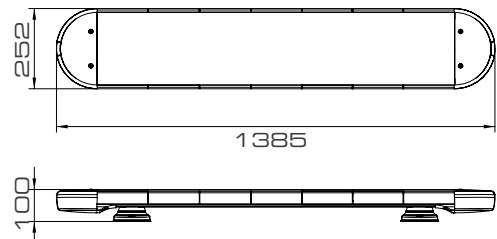
LOW BAR 1545

Length 1545 mm (max. 8+8 modules front/rear + 2+2 corner modules front/rear + 2 alley modules left/right)



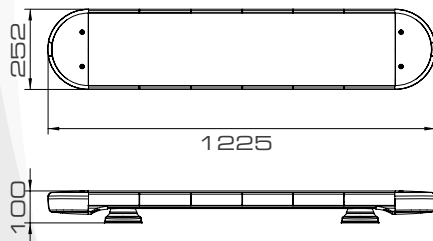
LOW BAR 1385

Length 1385 mm (max. 7+7 modules front/rear + 2+2 corner modules front/rear + 2 alley modules left/right)



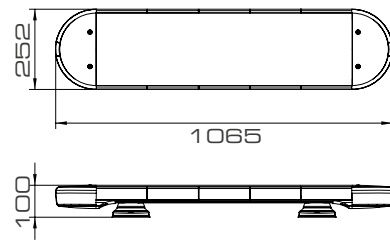
LOW BAR 1225

Length 1225 mm (max. 6+6 modules front/rear + 2+2 corner modules front/rear + 2 alley modules left/right)



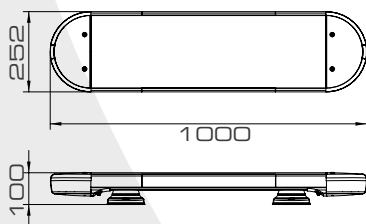
LOW BAR 1065

Length 1065 mm (max. 5+5 modules front/rear + 2+2 corner modules front/rear + 2 alley modules left/right)



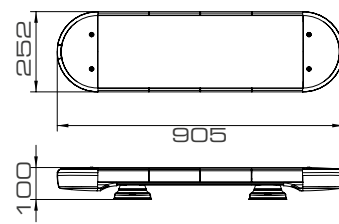
LOW BAR 1000

Length 1000 mm (max. 2+2 modules front/rear + 2+2 corner modules front/rear + aluminium profile + 2 alley modules left/right)



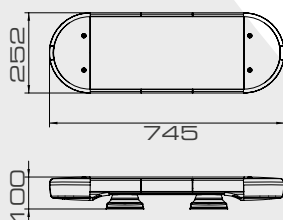
LOW BAR 905

Length 905 mm (max. 4+4 modules front/rear + 2+2 corner modules front/rear + 2 alley modules left/right)



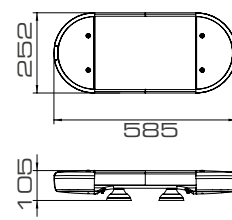
LOW BAR 745

Length 745 mm (max. 3+3 modules front/rear + 2+2 corner modules front/rear + 2 alley modules left/right)



LOW BAR 585

Length 585 mm (max. 2+2 modules front/rear + 2+2 corner modules front/rear + 2 alley modules left/right)

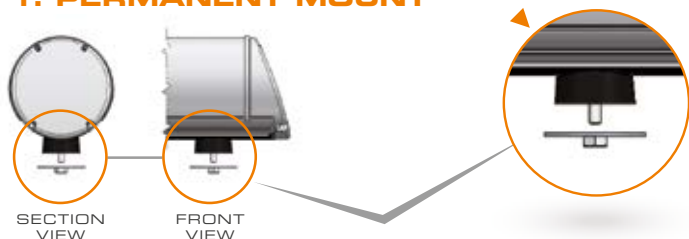


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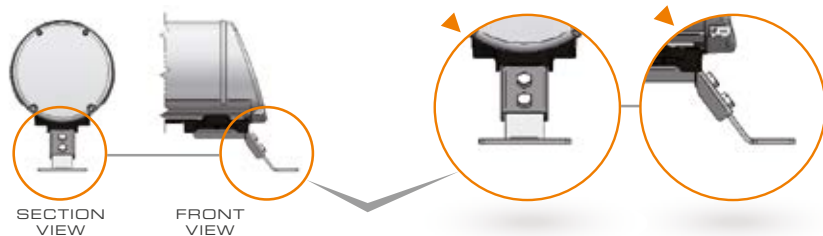
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E-TUBE/NEW COMPACT MOUNT TYPES

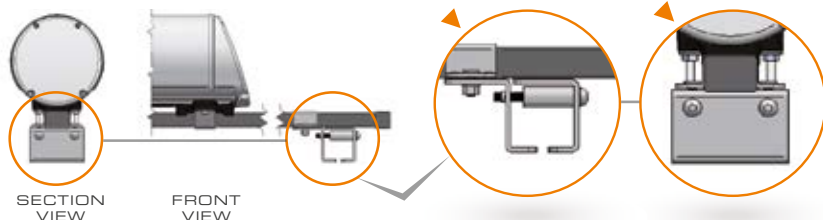
1. PERMANENT MOUNT



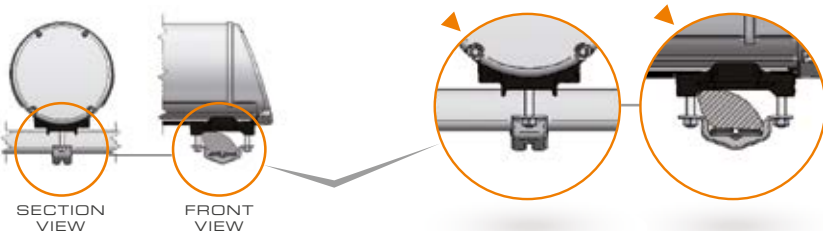
2. REMOVABLE MOUNT WITH BRACKET



3. REMOVABLE MOUNT ON ROOF-RACK



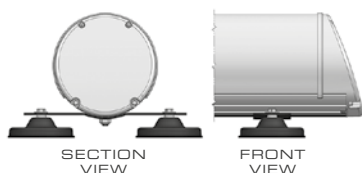
4. MOUNT ON RAILINGS



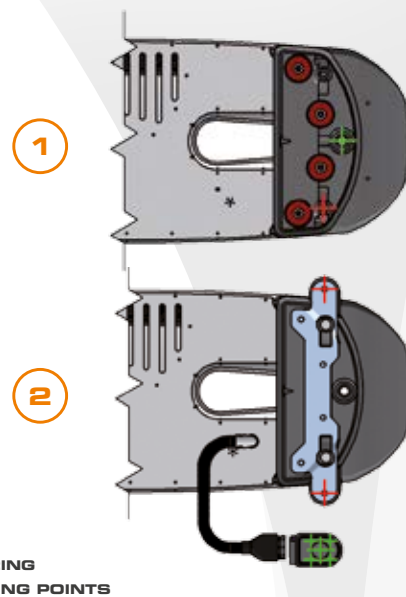
5. MAGNETIC MOUNT Available only for length mm 324



6. MAGNETIC MOUNT FOR 2 OR MORE MODULES



FIXING SOLUTIONS



DRILLING HOLES ON VEHICLE ROOF



1. System made up of 2 bases in EPDM rubber that lodge 8 extremely strong hold neodymium magnets, suitable for any type of vehicle that has an iron roof and two safety bolts for the crash test hold. Interior wiring.

2. System for exterior removable mount, made up of 2 bases in EPDM rubber and four safety bolts for the crash test hold. Interior wiring.

E-TUBE

NEW
COMPACT



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signaling & lighting for heavy equipment

APPROVED BEACONS

Sirena offers a complete range of beacons, engineered and manufactured in conformity with UNECE Regulations.

Available with LED, halogen and Xenon technology, Sirena's range of beacons delivers multiple installation possibilities on all types of surface.

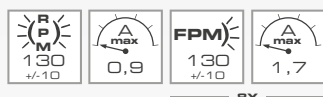
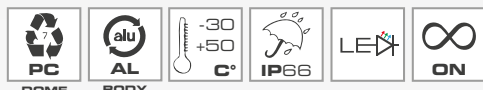
High optical performance, versatility as well as excellent resistance to vibrations of our beacons guarantee the maximum warning effectiveness even under the most critical operating conditions of heavy equipment.





CRYSTAL LED B
CRYSTAL 8X LED B
ISO B1 (FLAT BASE)

- > ECE R65 APPROVED <
> LOW CONSUMPTION <
> EXCELLENT OPTICAL PERFORMANCE <



8X

ALSO AVAILABLE



CRYSTAL LED A
CRYSTAL 8X LED A
ISO A (MOUNT ON
ADAPTER SOCKET)

CRYSTAL LED M
CRYSTAL 8X LED M
ISO D (MAGNETIC BASE)



CRYSTAL LED | PART NO

	CRYSTAL LED (ROTATING EFFECT)	CRYSTAL 8X LED (FLASHING EFFECT)
	12/24V	12/24V
	A	A R
ISO B1	36417	36439 36458
ISO A	36416	36440 36457
ISO D SAC	36401	36437 36396
ISO D JACK	36405	36448 -
ISO D LISC.SAC	36409	36446 -

CRYSTAL LED

Approved beacons with polycarbonate dome and aluminium base.

Developed with LED light source, the beacon is available with rotating (CRYSTAL LED) or flashing effect (CRYSTAL 8X LED).

Engineered to synchronize more devices (ISO B1 base versions) switched on simultaneously (max. 8 devices).

Available also with magnetic base (CRYSTAL LED M, CRYSTAL 8X LED M):

- with helix cable and cigarette lighter plug (SAC)
- with helix cable and 90° coaxial jack (JACK)
- with 4,5 m straight cable and cigarette lighter plug (LISC. SAC).

KEY CHARACTERISTICS

VOLTAGE
12/24V DC

LIGHT EFFECT
ROTATING EFFECT (CRYSTAL LED)
FLASHING EFFECT (CRYSTAL 8X LED): 2F/4F

LIGHT INTENSITY
According to ECE R65

PROTECTION GRADE
IP66

OPERATING TEMPERATURE
-30/+50 °C

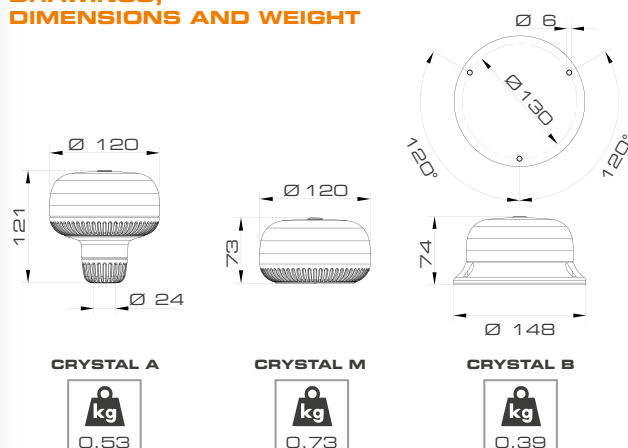
MECHANICAL FEATURES

Unbreakable polycarbonate dome and aluminium base (according to ISO 4148, standard form B11 form A I form D)

OPTICAL FEATURES

Optical group made up of 8 LED allowing a high intensity rotating or flashing effect

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



HOMOLOGATION NUMBERS

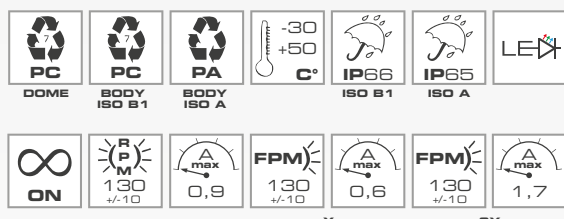
	CRYSTAL LED (ROTATING EFFECT)	CRYSTAL 8X LED (FLASHING EFFECT)
ECE R65 TA1 E3	00 7070 A	00 7105 A
ECE R65 TR1 E3		00 7105 R
EMC 2006/28/CE e3 03 1184 (12/24V)		03 1201 (12/24V)



FR5 R LED B
FX5 8X LED B
ISO B1 (FLAT BASE)
FLUTED DOME (R)

FX5 X LED B
ISO B1 (FLAT BASE)
FLUTED DOME (R)

- > ECE R65 APPROVED <
> LOW CONSUMPTION <
> EXCELLENT OPTICAL PERFORMANCE <



ALSO AVAILABLE



FR5 R LED A
FX5 8X LED A
FX5 X LED A
ISO A (MOUNT ON
ADAPTER SOCKET)
FLUTED DOME (R)



FR5 R LED
FX5 X LED
SMOOTH DOME (L)*
* Part nos. available on request

FR5 LED - FX5 LED | PART NO

	FR5 R LED (ROTATING EFFECT) FLUTED DOME (R)	FX5 X LED (FLASHING EFFECT) FLUTED DOME (R)	FX5 8X LED (FLASHING EFFECT) FLUTED DOME (R)
	12/24V	12/24V	12/24V
	A	A	A
ISO B1	74041	74045	74048
ISO A	74043	74047	74049

FR5 LED - FX5 LED

Approved beacons with polycarbonate dome and base. Versions with fibreglass reinforced nylon ISO A base also available.

Developed with LED light source, the beacon is available with rotating (FR5 R LED) or flashing effect (FX5 8X LED - FX5 X LED).

Engineered to synchronize more devices (ISO B1 base versions) switched on simultaneously (max. 8 devices).

KEY CHARACTERISTICS

VOLTAGE
12/24V DC

LIGHT EFFECT
ROTATING EFFECT (FR5 R LED)
FLASHING EFFECT (FR5 8X LED): selectable 2F/4F
FLASHING EFFECT (FR5 X LED): selectable 1F/2F

LIGHT INTENSITY
According to ECE R65

PROTECTION GRADE
IP66 (ISO B1)
IP65 (ISO A)

OPERATING TEMPERATURE
-30/+50 °C

MECHANICAL FEATURES

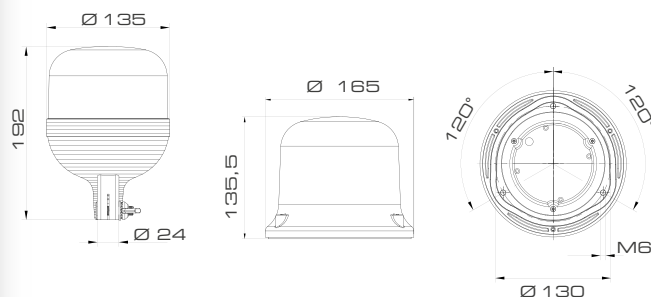
Unbreakable polycarbonate dome and base (according to ISO 4148, standard form B1). Fibreglass reinforced nylon base (according to ISO 4148, standard form A)

OPTICAL FEATURES

FR5 R LED - FX5 8X LED: optical group made up of 8 LED allowing a high intensity rotating or flashing effect

FX5 X LED: one LED optical group producing a rich light output for flashing effect

DRAWINGS, DIMENSIONS AND WEIGHT



FR5 A	FX5 A	FR5 B	FX5 B
kg 0,60	kg 0,80	kg 0,68	kg 0,80

CERTIFICATIONS



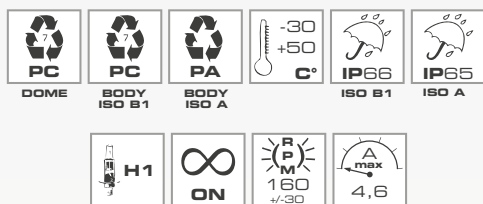
HOMOLOGATION NUMBERS

	FR5 R LED (ROTATING EFFECT)	FX5 8X LED (FLASHING EFFECT)	FX5 X LED (FLASHING EFFECT)
ECE R65 TA1 E3 A	00 7069	00 7104	00 7062
EMC 2006/28/CE e3	03 1184	03 1201	03 1182



FR5 H1 B
ISO B1 (FLAT BASE)

> ECE R65 APPROVED <
> EXCELLENT OPTICAL PERFORMANCE <



ALSO AVAILABLE



FR5 H1 A
ISO A (MOUNT ON
ADAPTER SOCKET)

FR5 H1 | PART NO

FR5 H1 (ROTATING BEACON)					
12V (WITH BULB)		24V (WITH BULB)		12/24V (WITHOUT BULB)	
A	R	A	R	A	R
ISO B1 74033	73967	74034	73968	74035	73969
ISO A 74030	73998	74031	73983	74032	73984

FR5 H1

Approved rotating beacons with polycarbonate dome and base. Versions with fibreglass reinforced nylon ISO A base also available.

Developed with halogen light source 55W and 70W.

KEY CHARACTERISTICS

VOLTAGE

12V DC (with bulb)
24V DC (with bulb)
12/24V DC (without bulb)

MOTOR

Worm gear drive
Sintered bush bearing
Voltage stabilizer circuit
Radio interference filter integrated in the motor

LIGHT INTENSITY

According to ECE R65

PROTECTION GRADE

IP66 (ISO B1)
IP65 (ISO A)

OPERATING TEMPERATURE

-30/+50 °C

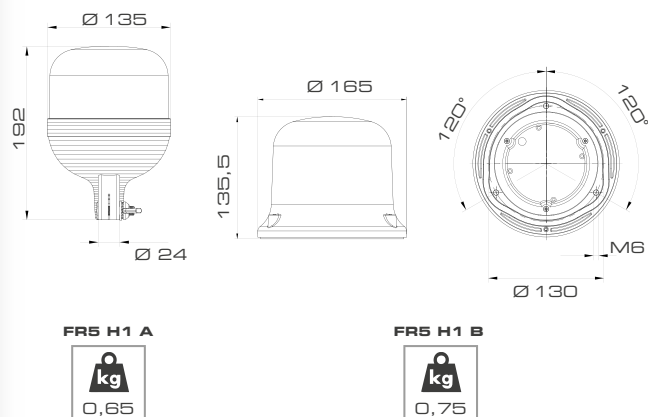
MECHANICAL FEATURES

Unbreakable polycarbonate dome and base (according to ISO 4148, standard form B1). Fibreglass reinforced nylon base (according to ISO 4148, standard form A)

OPTICAL FEATURES

Metalized steel reflector with stepped device for manual rotation. Halogen light source H1 55W (12V) and 70W (24V)

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



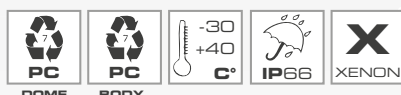
HOMOLOGATION NUMBERS

FR5 H1 (ROTATING BEACON)		
ECE R65 TA1 E3	00 7066	A
ECE R65 TR1 E3	00 7067	R
EMC 2006/28/CE e3	03 1155 (12V)	
EMC 2006/28/CE e3	03 1152 (24V)	
EMC 2006/28/CE e3	03 1153 (12/24V)	



FX5 FLASH
ISO B1 - FLAT BASE

- > ECE R65 APPROVED <
- > XENON DISCHARGE LAMP <
- > HIGH LIGHT INTENSITY <
- > ISO DIN B1 BASE <



FX5 FLASH | PART NO

FX5 FLASH
(XENON FLASHING BEACON)



12/24V

ISO B1

73982

FX5 FLASH

Approved Xenon flashing beacon with polycarbonate dome and base.

Developed with powerful Xenon discharge tube 14 Joules.

Selectable light effects (1F-2F-3F).

Engineered to synchronize more devices switched on simultaneously (max. 8 devices).

KEY CHARACTERISTICS

VOLTAGE
12/24V DC

LIGHT EFFECT
STROBE: 14 Joules - Selectable light effects (1F-2F-3F)

LIGHT INTENSITY
According to ECE R65

PROTECTION GRADE
IP66

OPERATING TEMPERATURE
-30/+40 °C

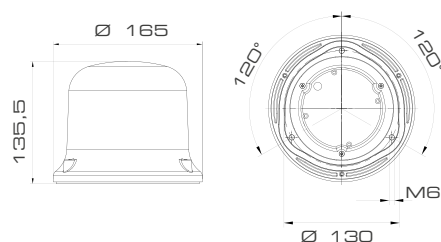
MECHANICAL FEATURES

Unbreakable polycarbonate dome and base (according to ISO 4148, standard form B1).

OPTICAL FEATURES

Powerful 14 Joules Xenon technology allows a high intensity flash (selectable 1F-2F-3F)

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



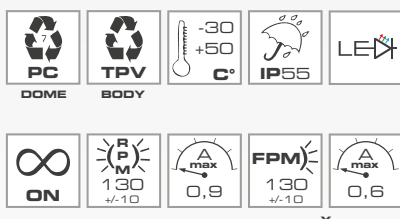
HOMOLOGATION NUMBERS

FX5 FLASH
(XENON FLASHING BEACON)

ECE R65 TA1 E3 00 7039 A
EMC 2006/28/CE e24 03 1481 (12/24V)



> ECE R65 APPROVED <
> LOW CONSUMPTION <
> EXCELLENT OPTICAL PERFORMANCE <



GDO LED | PART NO

	GDO R LED (ROTATING EFFECT)	GDO X LED (FLASHING EFFECT)
	12/24V	12/24V
	A	A
SAC	74508	74534
JACK	74509	74532

GDO LED

Approved LED beacons. The aerodynamic shape with strong hold magnetic base, allows adhesion at a speed of 200 Km/h and over.

Developed with LED light source, the beacon is available with rotating (GDO R LED) or flashing effect GDO X LED).

Available:

- with helix cable and cigarette lighter plug (SAC) or
- with helix cable and 90° coaxial jack

KEY CHARACTERISTICS

VOLTAGE
12/24V DC

LIGHT EFFECT
ROTATING EFFECT (GDO R LED)
FLASHING EFFECT (GDO X LED): selectable 1F/2F

LIGHT INTENSITY
According to ECE R65

PROTECTION GRADE
IP55

OPERATING TEMPERATURE
-30/+50 °C

MECHANICAL FEATURES

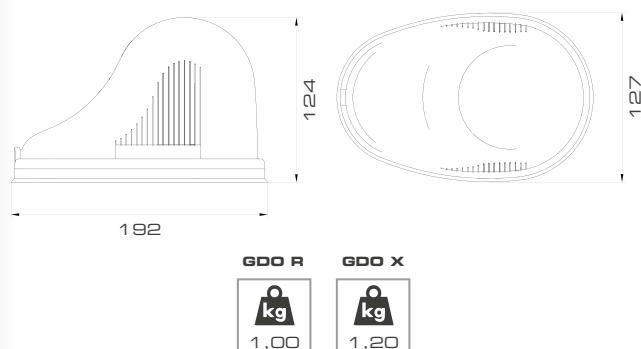
Unbreakable polycarbonate dome and strong hold magnetic rubber base

OPTICAL FEATURES

GDO R LED: optical group made up of 8 LED allowing a high intensity rotating effect

GDO X LED: one LED optical group producing a rich light output for flashing effect

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



HOMOLOGATION NUMBERS

	GDO R LED (ROTATING EFFECT)	GDO X LED (FLASHING EFFECT)
ECE R65	TA1 E3	00 7072 A
EMC 2006/28/CE	e3	03 1183

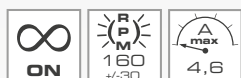
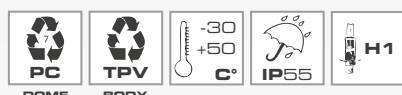


GDO
GDO ND



GDO JACK
GDO ND JACK

> **ECE R65 APPROVED** <
> **EXCELLENT OPTICAL PERFORMANCE** <



ALSO AVAILABLE



GDO BF
PERMANENT MOUNT
ISO B1 STANDARD
ADAPTER

GDO | PART NO

	GDO (MAGNETIC BASE)		GDO ND (NEODYMIUM MAGNETIC BASE)		GDO BF (PERMANENT MOUNT)	
	12V — 24V (WITH BULB)		12V — 24V (WITH BULB)		12V — 24V (WITH BULB)	
	A	A	A	A	A	A
SAC	74401	74405	74171	74173	-	-
JACK	74447	74464	74191	74193	-	-
BF	-	-	-	-	74429	74440

GDO

Approved rotating beacons. The aerodynamic shape with strong hold magnetic base allows adhesion at a speed of 200 Km/h and over.

Neodymium magnetic base (GDO ND) or permanent mount version (GDO BF) with ISO B1 standard adapter also available.

Magnetic versions available with:

- helix cable and cigarette lighter plug (SAC) or
- helix cable and 90° coaxial jack (JACK)

Developed with halogen light source 55W and 70W.

KEY CHARACTERISTICS

VOLTAGE

12V DC (with bulb)
24V DC (with bulb)

MOTOR

Worm gear drive
Sintered bush bearing
Radio interference filter integrated in the motor

LIGHT INTENSITY

According to ECE R65

PROTECTION GRADE

IP55

OPERATING TEMPERATURE

-30/+50 °C

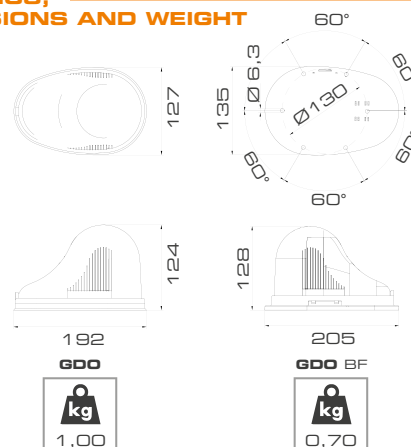
MECHANICAL FEATURES

GDO - GDO ND: unbreakable polycarbonate dome.
Strong hold magnetic rubber base
GDO BF: ISO B1 standard adapter

OPTICAL FEATURES

Metallized steel reflector. Halogen light source H1 55W (12V) and 70W (24V). Complete also with spare bulb

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS

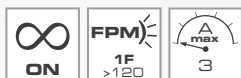
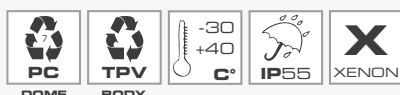


HOMOLOGATION NUMBERS

	GDO (ROTATING BEACON)	
ECE R65	A	E2
EMC 2006/28/CE	e3	03 1155 (12V)
EMC 2006/28/CE	e3	03 1152 (24V)



> ECE R65 APPROVED <
> XENON DISCHARGE LAMP <
> EXCELLENT OPTICAL PERFORMANCE <



ALSO AVAILABLE



SUPERGDO FLASH BAF
PERMANENT MOUNT
ISO B1 STANDARD
ADAPTER

GDO FLASH | PART NO

	GDO FLASH (MAGNETIC BASE)	GDO FLASH ND (NEODYMIUM MAGNETIC BASE)	SUPERGDO BAF (PERMANENT MOUNT)
	12V	12V	12V
	A	A	A
SAC	74521	74184	-
JACK	74536	74775	-
BAF	-	-	74378

GDO FLASH

Approved Xenon flashing beacons. The aerodynamic shape with strong hold magnetic base allows adhesion at a speed of 200 Km/h and over.

Neodymium magnetic base (GDO FLASH ND) or permanent mount version (SUPERGDO FLASH BAF) with ISO B1 anodized aluminium support also available.

Magnetic versions with:

- helix cable and cigarette lighter plug (SAC) or
- helix cable and 90° coaxial jack (JACK)

Powerful 10 Joules Xenon technology allows a high intensity single flash (1F).

KEY CHARACTERISTICS

VOLTAGE
12V DC

LIGHT EFFECT
STROBE: 10 Joules - Single flash (1F)

LIGHT INTENSITY
According to ECE R65

PROTECTION GRADE
IP55

OPERATING TEMPERATURE
-30/+40 °C

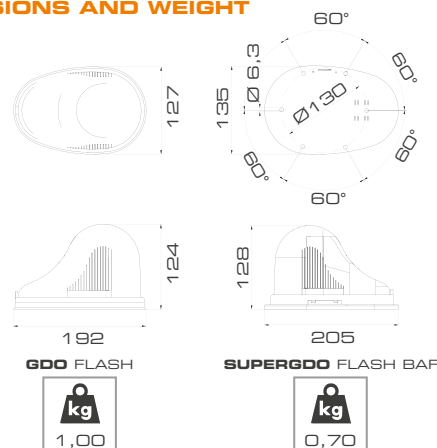
MECHANICAL FEATURES

GDO FLASH - GDO FLASH ND: unbreakable polycarbonate dome. Strong hold magnetic rubber base
SUPERGDO FLASH BAF: ISO B1 standard adapter

OPTICAL FEATURES

Powerful 10 Joules Xenon technology allows a high intensity single flash (1F)

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



HOMOLOGATION NUMBERS

GDO FLASH
(XENON FLASHING BEACON)

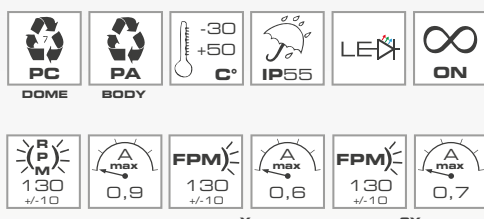
ECE R65 TA1 E9 00 4026 A
EMC UNECE 10R E3 PENDING (12V)



RTB/5 R LED
RTB/5 8X LED
ISO B1 (FLAT BASE)

RTB/5 X LED
ISO B1 (FLAT BASE)

> ECE R65 APPROVED <
> LOW CONSUMPTION <
> EXCELLENT OPTICAL PERFORMANCE <



RTB/5 LED

Approved LED beacons with polycarbonate dome and fibreglass reinforced nylon base.

Developed with LED light source, the beacon is available with rotating (RTB/5 R LED) or flashing effect (RTB/5 8X LED - RTB/5 X LED).

Engineered to synchronize more devices switched on simultaneously (max. 8 devices).

KEY CHARACTERISTICS

VOLTAGE
12/24V DC

LIGHT EFFECT
ROTATING EFFECT (RTB/5 R LED)
FLASHING EFFECT (RTB/5 8X LED): selectable 1F/2F
FLASHING EFFECT (RTB/5 X LED): selectable 1F/2F

LIGHT INTENSITY
According to ECE R65

PROTECTION GRADE
IP55

OPERATING TEMPERATURE
-30/+50 °C

MECHANICAL FEATURES

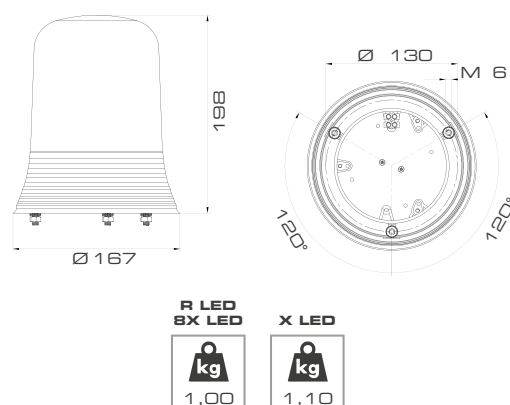
Unbreakable polycarbonate dome and fibreglass reinforced nylon base (according to ISO 4148, standard form B1)

OPTICAL FEATURES

RTB/5 R LED - RTB/5 8X LED: optical group made up of 8 LED allowing a high intensity rotating or flashing effect

RTB/5 X LED: one LED optical group producing a rich light output for flashing effect

DRAWINGS, DIMENSIONS AND WEIGHT



RTB/5 LED | PART NO

	RTB/5 R LED (ROTATING EFFECT)	RTB/5 X LED (FLASHING EFFECT)	RTB/5 8X LED (FLASHING EFFECT)
	12/24V	12/24V	
ISO B1	73031	73021	73037

CERTIFICATIONS



HOMOLOGATION NUMBERS

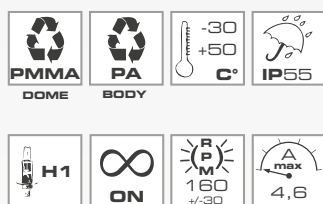
	RTB/5 R LED (ROTATING EFFECT)	RTB/5 X LED (FLASHING EFFECT)	RTB/5 8X LED (FLASHING EFFECT)
ECE R65 TA1 E3	00 7071	00 7061	00 7104
EMC 2006/28/CE e3	03 1184	03 1182	03 1201



RTB/5 B
ISO B1 (FLAT BASE)

RTB/5 A
ISO A (MOUNT ON
ADAPTER SOCKET)

> ECE R65 APPROVED <
> EXCELLENT OPTICAL PERFORMANCE <



ALSO AVAILABLE



P BASE*
(M12 SINGLE BOLT
FIXING BASE)



B3M BASE*
(BASE WITH 3 MAGNETS,
HELIX CABLE AND
CIGARETTE
LIGHTER PLUG)

*see base section on page 35

RTB/5 | PART NO

	RTB/5 (ROTATING BEACON)	
	A	
	12/24V (WITHOUT BULB)	
ISO B1	73200	
ISO A	73001	
SINGLE BOLT FIXING BASE (P BASE)		83014
MAGNETIC BASE WITH CABLE (B3M BASE)		83152

RTB/5

Approved rotating beacons with methacrylate dome and fibreglass reinforced nylon base. PVC coating for ISO B1 base version.

Developed with halogen light source 55W and 70W.

KEY CHARACTERISTICS

VOLTAGE

12/24V DC (without bulb)

MOTOR

Parallel axis gear drive
Steel supporting plate with rubber dampers
Sintered bush bearing
Radio interference filter integrated in the motor

LIGHT INTENSITY

According to ECE R65

PROTECTION GRADE

IP55

OPERATING TEMPERATURE

-30/+50 °C

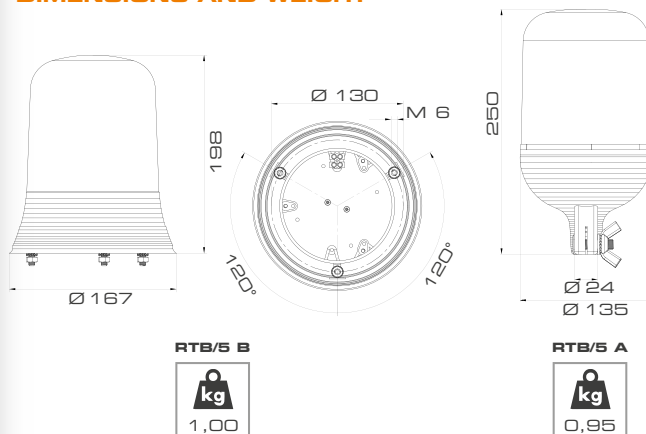
MECHANICAL FEATURES

Methacrylate dome (bayonet mount) and fibreglass reinforced nylon base (according to ISO 4148, standard form B1 and A). PVC coating for ISO B1 base version

OPTICAL FEATURES

Anodized aluminium reflector. Halogen light source H1 55W (12V) and 70W (24V)

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



HOMOLOGATION NUMBERS

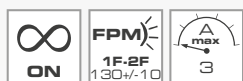
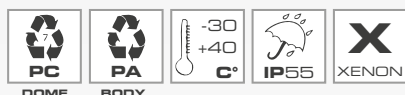
	RTB/5 (ROTATING BEACON)	
ECE R65 A E2	0090017	A
EMC 2006/28/CE e3	03 1154 (12/24V)	



RTB/5 FLASH B
ISO B1 (FLAT BASE)

RTB/5 FLASH A
ISO A (MOUNT ON
ADAPTER SOCKET)

- > ECE R65 APPROVED <
- > XENON DISCHARGE LAMP <
- > HIGH LIGHT INTENSITY <



ALSO AVAILABLE



P BASE*
(M12 SINGLE BOLT
FIXING BASE)



B3M BASE*
(BASE WITH 3 MAGNETS,
HELIX CABLE AND
CIGARETTE
LIGHTER PLUG)

*see base section on page 35

RTB/5 FLASH | PART NO

		RTB/5 FLASH (XENON FLASHING BEACON)			
		12V		24V	
		1F	2F	1F	2F
		A	A	A	A
ISO B1	73061	73263	73063	73266	
ISO A	73071	73246	73073	73245	
SINGLE BOLT FIXING BASE (P BASE)				83014	
MAGNETIC BASE WITH CABLE (B3M BASE)				83152	

RTB/5 FLASH

Approved Xenon flashing beacons with polycarbonate dome and fibreglass reinforced nylon base. PVC coating for ISO B1 base version.

Developed with powerful Xenon discharge tube 10 Joules.

KEY CHARACTERISTICS

VOLTAGE

12V DC
24V DC

LIGHT EFFECT

STROBE: 10 Joules - single (1F) or double flash (2F)

LIGHT INTENSITY

According to ECE R65

PROTECTION GRADE

IP55

OPERATING TEMPERATURE

-30/+40 °C

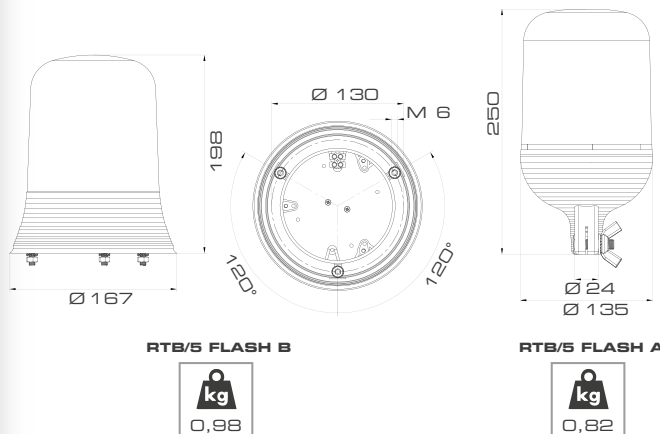
MECHANICAL FEATURES

Polycarbonate dome (bayonet mount) and fibreglass reinforced nylon base (according to ISO 4148, standard form B1 and A). PVC coating for ISO B1 base version

OPTICAL FEATURES

Powerful 10 Joules Xenon technology allows a high intensity flash (1F or 2F)

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



HOMOLOGATION NUMBERS

		RTB/5 FLASH (XENON FLASHING BEACON)	
ECE R65 A E2	0092010 A	03 1149 (12V)	
EMC 2006/28/CE e3		03 1148 (24V)	
EMC 2006/28/CE e3			



AGRIROT
ISO B1 + ISO A
(FLAT BASE + MOUNT ON
ADAPTER SOCKET)

> ECE R65 APPROVED <
> DUAL MOUNTING SYSTEM <
> EXCELLENT OPTICAL PERFORMANCE <



ALSO AVAILABLE



AGRIROT FLX
FLEXIBLE ISO A
(MOUNT ON
ADAPTER SOCKET)



KIT BM AGRIROT*
KIT FOR
MAGNETIC VERSION



*see base section on page 35

AGRIROT | PART NO

	AGRIROT (ROTATING BEACON)		
	12V (WITH BULB)	24V (WITH BULB)	12/24V (WITHOUT BULB)
	A	A	A
ISO B1+A	-	-	74000
FLX	74008	74013	74006
KIT FOR MAGNETIC VERSION (KIT BM AGRIROT)			83060

AGRIROT

Approved rotating beacon with methacrylate dome. Fibreglass reinforced nylon base with dual mounting system (ISO B1 and ISO A).

FLX: flexible rubber base and unbreakable polycarbonate dome

Developed with halogen light source 55W and 70W.

KEY CHARACTERISTICS

VOLTAGE

12/24V DC (without bulb)
FLX: 12V DC (with bulb) - 24V DC (with bulb)
12/24V DC (without bulb)

MOTOR

Parallel axis gear drive
Rotation through ball bearing
FLX: Worm gear drive I Sintered bush bearing
Voltage stabilizer circuit
Radio interference filter integrated in the motor

LIGHT INTENSITY

According to ECE R65

PROTECTION GRADE

IP55 (AGRIROT)
IP54 (AGRIROT FLX)

OPERATING TEMPERATURE

-30/+50 °C

MECHANICAL FEATURES

AGRIROT: methacrylate dome (screw mount) and fibreglass reinforced nylon base with dual mounting system (according to ISO 4148, standard form B1 and A)

AGRIROT FLX: flexible rubber base (according to ISO 4148, standard form A) and unbreakable polycarbonate dome

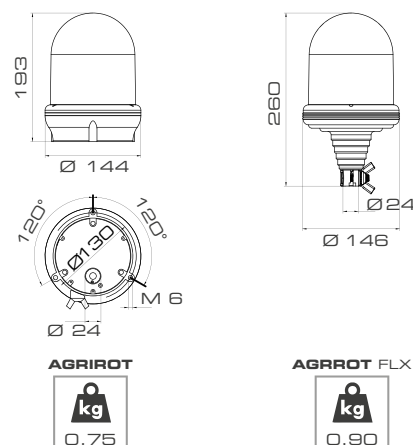
OPTICAL FEATURES

AGRIROT: anodized aluminium reflector

AGRIROT FLX: anodized aluminium reflector with stepped device for manual rotation

Halogen light source H1 55W (12V) and 70W (24V)

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



HOMOLOGATION NUMBERS

	AGRIROT (ROTATING BEACON)	AGRIROT (ROTATING BEACON)
ECE R65 A E2	0091017 A	0091017 A
EMC 2006/28/CE e3	-	03 1155 (12V)
EMC 2006/28/CE e3	-	03 1152 (24V)
EMC 2006/28/CE e3	03 1156 (12/24V)	03 1153 (12/24V)



B2 L
ISO B2
(FLAT BASE)
SMOOTH DOME (L)

B2 R
ISO B2
(FLAT BASE)
FLUTED DOME (R)

> ECE R65 APPROVED <
> EXCELLENT OPTICAL PERFORMANCE <
> ISO B2 STANDARD MOUNT <



ALSO AVAILABLE



GI B2
TILTED GASKET BASE

B2 | PART NO

B2 L SMOOTH DOME (L)		B2 R FLUTED DOME (R)	
12V — 24V (WITH BULB)		12V — 24V (WITH BULB)	
ISO B2	69006 69038	69001	69010
TILTED GASKET BASE (GI B2)		71972	

B2

Large size rotating beacons with polycarbonate dome and PVC coated polypropylene ISO B2 base.

Available with internally smooth (L) or fluted dome (R).

Developed with halogen light source 55W and 70W.

KEY CHARACTERISTICS

VOLTAGE

12V DC (with bulb)
24V DC (with bulb)

MOTOR

Parallel axis gear drive
Die-cast alloy supporting plate with rubber dampers
Sintered bush bearing
Voltage stabilizer circuit
Radio interference filter integrated in the motor

LIGHT INTENSITY

According to ECE R65

PROTECTION GRADE

IP65

OPERATING TEMPERATURE

-30/+50 °C

MECHANICAL FEATURES

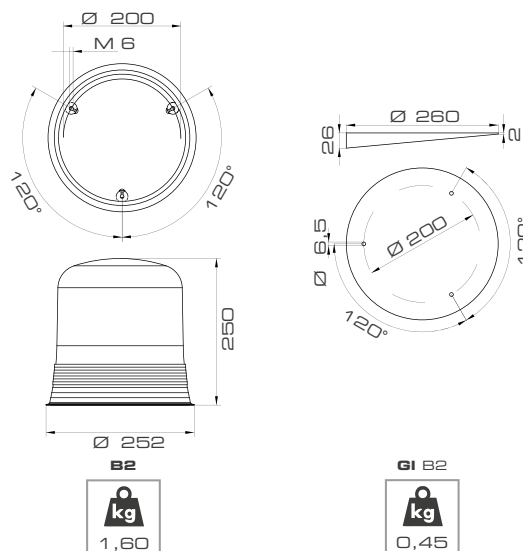
Unbreakable polycarbonate dome and PVC coated polypropylene base (according to ISO 4148, standard form B2).

Dome internally smooth (L) or fluted (R)

OPTICAL FEATURES

Large size aluminium reflector. Halogen light source H1 55W (12V) and 70W (24V)

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



HOMOLOGATION NUMBERS

B2 (ROTATING BEACON)	
ECE R65 A E2	0088037
EMC 2006/28/CE	00 1158 (12V)
EMC 2006/28/CE	00 1158 (24V)



BOULE
FLEXIBLE ISO A
(MOUNT ON
ADAPTER SOCKET)

- > ECE R65 APPROVED <
- > VIBRATION-PROOF <
- > WATERTIGHT <
- > EXCELLENT OPTICAL PERFORMANCE <



BOULE | PART NO

BOULE (ROTATING BEACON)

12V (WITH BULB)	24V (WITH BULB)	12/24V (WITHOUT BULB)
A	A	A
FLX 74600	74601	74610

BOULE

Approved rotating beacon with unbreakable polycarbonate dome and flexible rubber base.

Excellent resistance to vibrations and high IP rating (IP66)

Developed with halogen light source 55W and 70W.

KEY CHARACTERISTICS

VOLTAGE

12V DC (with bulb)
24V DC (with bulb)
12/24V DC (without bulb)

MOTOR

Worm gear drive
Sintered bush bearing
Radio interference filter integrated in the motor

LIGHT INTENSITY

According to ECE R65

PROTECTION GRADE

IP66

OPERATING TEMPERATURE

-30/+50 °C

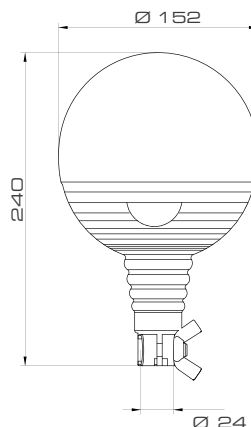
MECHANICAL FEATURES

Polycarbonate dome (clamp mount) and flexible rubber base (according to ISO 4148, standard form A)

OPTICAL FEATURES

Anodized aluminium reflector with stepped device for manual rotation. Halogen light source H1 55W (12V) and 70W (24V)

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



HOMOLOGATION NUMBERS

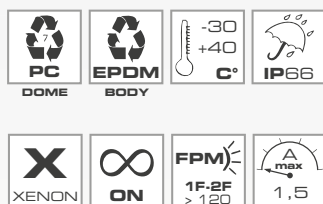
BOULE (ROTATING BEACON)

ECE R65 A E2	0088120 A
EMC 2006/28/CE e3	03 1 155 (12V)
EMC 2006/28/CE e3	03 1 152 (24V)
EMC 2006/28/CE e3	03 1 153 (12/24V)



BOULE FLASH
FLEXIBLE ISO A
(MOUNT ON
ADAPTER SOCKET)

- > VIBRATION-PROOF <
- > WATERTIGHT <
- > XENON DISCHARGE LAMP <
- > HIGH LIGHT INTENSITY <



BOULE FLASH

Xenon flashing beacon with unbreakable polycarbonate dome and flexible rubber base.

Excellent resistance to vibrations and high IP rating (IP66).

Developed with Xenon discharge tube 8 Joules.

KEY CHARACTERISTICS

VOLTAGE

12V DC
24V DC

LIGHT EFFECT

STROBE: 8 Joules - single (1F) or double flash (2F)

LIGHT INTENSITY

According to T.P.F.S.L. 91053

PROTECTION GRADE

IP66

OPERATING TEMPERATURE

-30/+40 °C

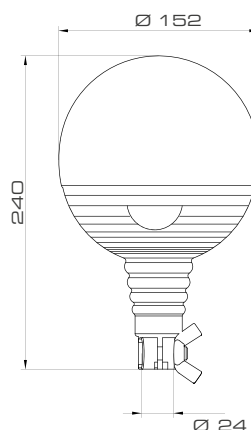
MECHANICAL FEATURES

Polycarbonate dome (clamp mount) and flexible rubber base (according to ISO 4148, standard form A)

OPTICAL FEATURES

Powerful 8 Joules Xenon technology allows a high intensity flash (1F or 2F)

DRAWINGS, DIMENSIONS AND WEIGHT



BOULE FLASH | PART NO

BOULE FLASH
(XENON FLASHING BEACON)

	12V		24V	
	1F	2F	1F	2F
	A	A	A	A
FLX	74680	74710	74681	74711

CERTIFICATIONS



HOMOLOGATION NUMBERS

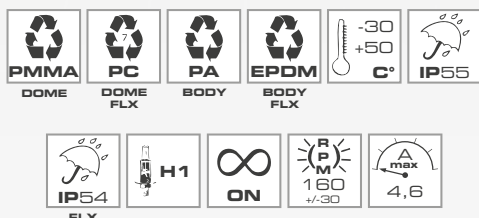
BOULE FLASH
(XENON FLASHING BEACON)

T.P.F.S.L. 91053
EMC 2006/28/CE e3 03 1146 (12V)
EMC 2006/28/CE e3 03 1145 (24V)



FT6
ISO B1 (FLAT BASE)

> ECE R65 APPROVED <
> EXCELLENT OPTICAL PERFORMANCE <



ALSO AVAILABLE



FT6 FLX
FLEXIBLE ISO A BASE
(MOUNT ON
ADAPTER SOCKET)



A BASE*
(MOUNT ON
ADAPTER SOCKET)



P BASE*
(M12 SINGLE BOLT
FIXING BASE)



B1M BASE*
(BASE WITH 1 MAGNET,
HELIX CABLE AND
CIGARETTE
LIGHTER PLUG)



B3M BASE*
(BASE WITH 3 MAGNETS,
HELIX CABLE AND
CIGARETTE
LIGHTER PLUG)

*see base section on page 35

FT6 | PART NO

	FT6 (ROTATING BEACON)		
	12V (WITH BULB)	24V (WITH BULB)	12/24V (WITHOUT BULB)
ISO B1	A 73600	A 73610	A 73702
FLX	73869	73875	73703

BASE FOR ADAPTER SOCKET (A BASE)	73546
SINGLE BOLT FIXING BASE (P BASE)	73547
MAGNETIC BASE WITH CABLE (B1M BASE)	73545
MAGNETIC BASE WITH CABLE (B3M BASE)	73804

FT6

Approved rotating beacon with methacrylate dome. Fibreglass reinforced nylon base.

FLX: flexible rubber base and unbreakable polycarbonate dome.

Developed with halogen light source 55W and 70W.

KEY CHARACTERISTICS

VOLTAGE

12V DC (with bulb)
24V DC (with bulb)
12/24V DC (without bulb)

MOTOR

Parallel axis gear drive
Rotation through ball bearing
FLX: Worm gear drive I Sintered bush bearing
Voltage stabilizer circuit
Radio interference filter integrated in the motor

LIGHT INTENSITY

According to ECE R65

PROTECTION GRADE

IP55 (FT6)
IP54 (FT6 FLX)

OPERATING TEMPERATURE

-30/+50 °C

MECHANICAL FEATURES

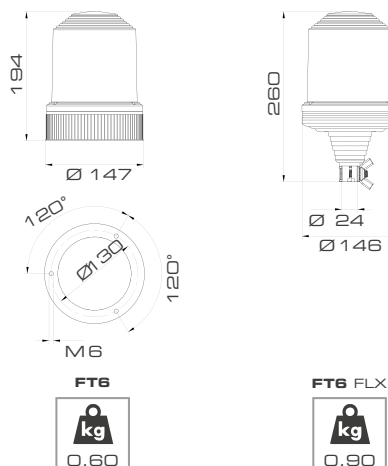
FT6: methacrylate dome (screw mount) and fibreglass reinforced nylon base (according to ISO 4148, standard form B1)

FT6 FLX: flexible rubber base (according to ISO 4148, standard form A) and unbreakable polycarbonate dome

OPTICAL FEATURES

FT6: anodized aluminium reflector
FT6 FLX: anodized aluminium reflector with stepped device for manual rotation
Halogen light source H1 55W (12V) and 70W (24V)

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



HOMOLOGATION NUMBERS

	FT6 (ROTATING BEACON)	FT6 FLX (ROTATING BEACON)
ECE R65 A E2	0090136 A	0090136 A
EMC 2006/28/CE e3	-	03 1155 (12V)
EMC 2006/28/CE e3	-	03 1152 (24V)
EMC 2006/28/CE e3	03 03 1156 (12/24V)	03 1153 (12/24V)



TORNADO A
BLISTER

TORNADO FLX
FLEXIBLE ISO A
(MOUNT ON
ADAPTER SOCKET)

TORNADO FLX
BLISTER

- > ECE R65 APPROVED <
- > EXCELLENT OPTICAL PERFORMANCE <
- > VERSATILE SOLUTIONS <



ALSO AVAILABLE



TORNADO B
ISO B1
(FLAT BASE)



TORNADO A
ISO A BASE
(MOUNT ON
ADAPTER SOCKET)



TORNADO P
ISO C BASE
(M12 SINGLE BOLT
FIXING BASE)



TORNADO 1M
(MAGNETIC BASE,
HELIX CABLE AND
CIGARETTE LIGHTER PLUG)



TORNADO 1MV
(MAGNETIC BASE,
SUCTION PAD,
HELIX CABLE AND
CIGARETTE LIGHTER PLUG)

TORNADO | PART NO

	TORNADO (ROTATING BEACON)		
	12V (WITH BULB)	24V (WITH BULB)	12/24V (WITHOUT BULB)
	A	A	A
ISO B1	79071	79072	79073
ISO A	79074	79075	79076
ISO C	79077	79078	79079
ISO D	79080	79081	79082
MV	79086	79087	79088
FLX	79090	79091	79092
ISO A BL.	79093	-	-
FLX BL.	79094	-	-

TORNADO

Approved rotating beacons with polycarbonate dome. Fibreglass reinforced polyamide bases.

FLX: vibration-proof flexible rubber base and unbreakable polycarbonate dome.

Developed with halogen light source 55W and 70W.

KEY CHARACTERISTICS

VOLTAGE

12V DC (with bulb)
24V DC (with bulb)
12/24V DC (without bulb)

MOTOR

Worm gear drive
Sintered bush bearing
Radio interference filter integrated in the motor

LIGHT INTENSITY

According to ECE R65

PROTECTION GRADE

IP55

OPERATING TEMPERATURE

-30/+50 °C

MECHANICAL FEATURES

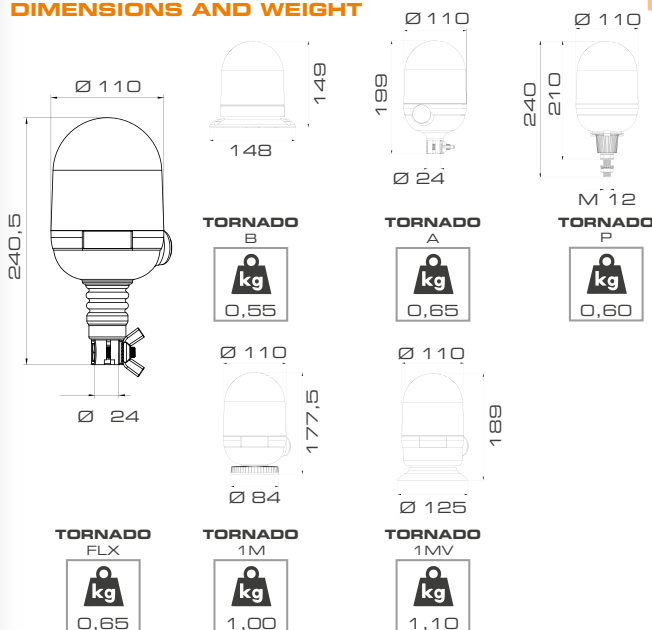
TORNADO: polycarbonate dome (bayonet mount) and fibreglass reinforced polyamide base.

TORNADO FLX: flexible rubber base (according to ISO 4148, standard form A) and unbreakable polycarbonate dome

OPTICAL FEATURES

Anodized aluminium reflector. Halogen light source H1 55W (12V) and 70W (24V)

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



HOMOLOGATION NUMBERS

TORNADO
(ROTATING BEACON)

ECE R65 TA1 E3	007012 A
EMC 2006/28/CE e3	03 1155 (12V)
EMC 2006/28/CE e3	03 1152 (24V)
EMC 2006/28/CE e3	03 1153 (12/24V)



GF 8.8 B
ISO B1 (FLAT BASE)

> ECE R65 APPROVED <
> EXCELLENT OPTICAL PERFORMANCE <
> VERSATILE SOLUTIONS <



ALSO AVAILABLE



GF 8.8 A
ISO A BASE
(MOUNT ON
ADAPTER SOCKET)



GF 8.8 P
ISO C BASE
(M12 SINGLE BOLT
FIXING BASE)



GF 8.8 M
ISO D BASE
(MAGNETIC BASE,
HELIX CABLE AND
CIGARETTE LIGHTER PLUG)



GF 8.8 MV
(MAGNETIC BASE,
SUCTION PAD,
HELIX CABLE AND
CIGARETTE LIGHTER PLUG)



GF 8.8 FLX
FLEXIBLE ISO A BASE
(MOUNT ON
ADAPTER SOCKET)

GF 8.8 | PART NO

	GF 8.8 (ROTATING BEACON)		
	12V (WITH BULB)	24V (WITH BULB)	12/24V (WITHOUT BULB)
ISO B1	A	A	A
ISO A	24115	24140	24149
ISO C	24133	24141	24154
ISO D	24137	24144	24237
MV	24135	24142	24157
FLX	24303	24304	24159
	24127	24128	24165

GF 8.8

Approved rotating beacons with methacrylate dome. Fibreglass reinforced polypropylene base.

FLX: flexible rubber base and unbreakable polycarbonate dome.

Developed with halogen light source 55W and 70W.

KEY CHARACTERISTICS

VOLTAGE

12V DC (with bulb)
24V DC (with bulb)
12/24V DC (without bulb)

MOTOR

Worm gear drive
Sintered bush bearing
Radio interference filter integrated in the motor

LIGHT INTENSITY

According to ECE R65

PROTECTION GRADE

IP44
IP54 (GF 8.8 FLX)

OPERATING TEMPERATURE

-30/+50 °C

MECHANICAL FEATURES

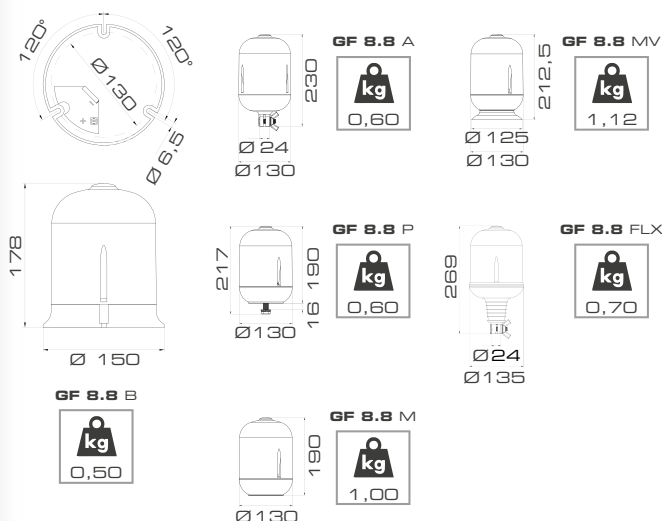
GF 8.8: methacrylate dome (screw mount) and fibreglass reinforced polypropylene base

GF 8.8 FLX: flexible rubber base (according to ISO 4148, standard form A) and unbreakable polycarbonate dome

OPTICAL FEATURES

Anodized aluminium reflector. Halogen light source H1 55W (12V) and 70W (24V)

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



HOMOLOGATION NUMBERS

GF 8.8 (ROTATING BEACON)		
ECE R65 A E2	0088059	A
EMC 2006/28/CE e3	03 1155 (12V)	
EMC 2006/28/CE e3	03 1152 (24V)	
EMC 2006/28/CE e3	03 1153 (12/24V)	



GF 8.8 FLX FLASH
FLEXIBLE ISO A
(MOUNT ON
ADAPTER SOCKET)

- > ECE R65 APPROVED <
- > XENON DISCHARGE LAMP <
- > HIGH LIGHT INTENSITY <
- > VERSATILE SOLUTIONS <



ALSO AVAILABLE



GF 8.8 FLASH B
ISO B1
(FLAT BASE)



GF 8.8 FLASH A
ISO A BASE
(MOUNT ON
ADAPTER SOCKET)



GF 8.8 FLASH P
ISO C BASE
(M12 SINGLE BOLT
FIXING BASE)



GF 8.8 FLASH M
ISO D BASE
(MAGNETIC BASE,
HELIX CABLE AND
CIGARETTE LIGHTER PLUG)

GF 8.8 FLASH | PART NO

	GF 8.8 FLASH (XENON FLASHING BEACON)			
	12V		24V	
	1F	2F	1F	2F
ISO B1	24312	24370	24316	24371
ISO A	24319	24326	24328	24327
ISO C	24339	24373	24340	24341
ISO D	24320	24322	24346	24325
FLX	24202	24204	24203	24205

GF 8.8 FLASH

Approved Xenon flashing beacons with polycarbonate dome and fibreglass reinforced polypropylene bases.

FLX: flexible rubber base and unbreakable polycarbonate dome.

Developed with powerful Xenon discharge tube 10 Joules.

KEY CHARACTERISTICS

VOLTAGE

12V DC
24V DC

LIGHT EFFECT

STROBE: 10 Joules - single (1F) or double flash (2F)

LIGHT INTENSITY

According to ECE R65

PROTECTION GRADE

IP44
IP54 (GF 8.8 FLX FLASH)

OPERATING TEMPERATURE

-30/+40 °C

MECHANICAL FEATURES

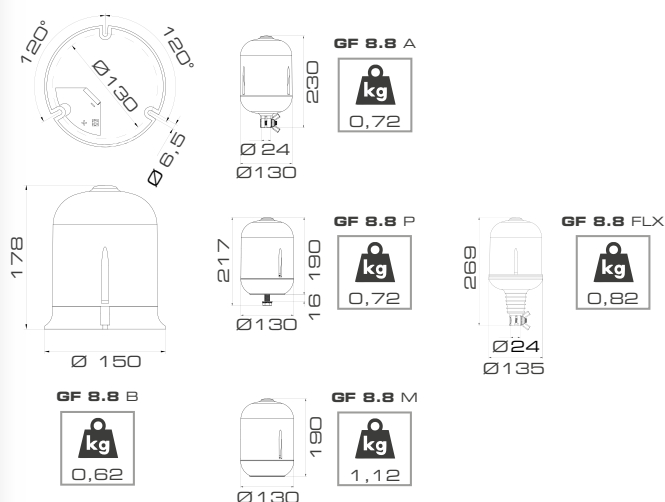
GF 8.8 FLASH: polycarbonate dome (screw mount) and fibreglass reinforced polypropylene base

GF 8.8 FLX FLASH: flexible rubber base (according to ISO 4148, standard form A) and unbreakable polycarbonate dome

OPTICAL FEATURES

Powerful 10 Joules Xenon technology allows a high intensity flash (1F or 2F)

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



HOMOLOGATION NUMBERS

GF 8.8 FLASH
(XENON FLASHING BEACON)

ECE R65 A E2 0092010 A
EMC 2006/28/CE e3 03 1149 (12V)
EMC 2006/28/CE e3 03 1148 (24V)



ROT CAR B L
ISO B1 (FLAT BASE)
SMOOTH DOME (L)

ROT CAR B R
ISO B1 (FLAT BASE)
FLUTED DOME (R)

- > ECE R65 APPROVED <
- > VIBRATION-PROOF <
- > WATERTIGHT <
- > EXCELLENT OPTICAL PERFORMANCE <



ALSO AVAILABLE



A BASE*
(MOUNT ON
ADAPTER SOCKET)



P BASE*
(M12 SINGLE BOLT
FIXING BASE)



B3M BASE*
(BASE WITH 3 MAGNETS,
HELIX CABLE AND
CIGARETTE
LIGHTER PLUG)

*see base section on page 35

ROT CAR | PART NO

ROT CAR L (ROTATING BEACON) SMOOTH DOME (L)			ROT CAR R (ROTATING BEACON) FLUTED DOME (R)		
12V — 24V (WITH BULB)	12/24V (NO BULB)		12V — 24V (WITH BULB)	12/24V (NO BULB)	
A	A	A	A	A	A
ISO B1 88001	88006	88605	88150	88156	88600
BASE FOR ADAPTER SOCKET (A BASE)			88400		
SINGLE BOLT FIXING BASE (P BASE)			88402		
MAGNETIC BASE WITH CABLE (B3M BASE)			88401		

ROT CAR

Approved rotating beacons with methacrylate dome - internally smooth (L) or fluted (R) - and rubber base.

Excellent resistance to vibrations and high IP rating (IP66)

Developed with halogen light source 55W and 70W.

KEY CHARACTERISTICS

VOLTAGE

12V DC (with bulb)
24V DC (with bulb)
12/24V DC (without bulb)

MOTOR

Parallel axis gear drive
Rotation through sintered bush
Voltage stabilizer circuit (12/24V)
Radio interference filter integrated in the motor

LIGHT INTENSITY

According to ECE R65

PROTECTION GRADE

IP66

OPERATING TEMPERATURE

-30/+50 °C

MECHANICAL FEATURES

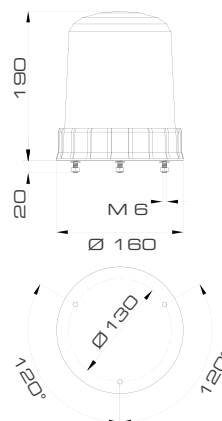
Methacrylate dome (clamp mount) and rubber base (according to ISO 4148, standard form B1)

OPTICAL FEATURES

Anodized aluminium reflector

Halogen light source H1 55W (12V) and 70W (24V)

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



HOMOLOGATION NUMBERS

ROT CAR (ROTATING BEACON)	
ECE R65 A E2	0091016 A
EMC 2006/28/CE e3	03 1150 (12V)
EMC 2006/28/CE e3	03 1151 (24V)
EMC 2006/28/CE e3	03 1154 (12/24V)



ROTCAR FLASH B L
(ISO B1 (FLAT BASE))

- > ECE R65 APPROVED <
- > VIBRATION-PROOF <
- > WATERTIGHT <
- > XENON DISCHARGE LAMP <
- > HIGH LIGHT INTENSITY <



ALSO AVAILABLE



A BASE*
(MOUNT ON
ADAPTER SOCKET)



P BASE*
(M12 SINGLE BOLT
FIXING BASE)



B3M BASE*
(BASE WITH 3 MAGNETS,
HELIX CABLE AND
CIGARETTE
LIGHTER PLUG)

ROTCAR FLASH | PART NO

		ROTCAR FLASH (XENON FLASHING BEACON)	
		12V	24V
		1F	2F
ISO B1		88350	88363
		88352	88366
BASE FOR ADAPTER SOCKET (A BASE)		88400	
SINGLE BOLT FIXING BASE (P BASE)		88402	
MAGNETIC BASE WITH CABLE (B3M BASE)		88401	

ROTCAR FLASH

Approved Xenon flashing beacon with polycarbonate dome and rubber base.

Excellent resistance to vibrations and high IP rating (IP66)

Developed with powerful Xenon discharge tube 10 Joules.

KEY CHARACTERISTICS

VOLTAGE

12V DC
24V DC

LIGHT EFFECT

STROBE: 10 Joules - single (1F) or double flash (2F)

LIGHT INTENSITY

According to ECE R65

PROTECTION GRADE

IP66

OPERATING TEMPERATURE

-30/+40 °C

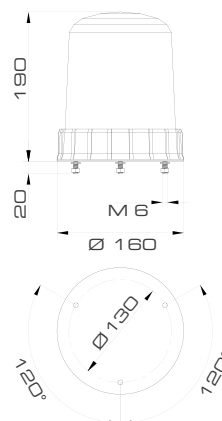
MECHANICAL FEATURES

Polycarbonate dome (clamp mount) and rubber base (according to ISO 4148, standard form B1)

OPTICAL FEATURES

Powerful 10 Joules Xenon technology allows a high intensity flash (1F or 2F)

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



HOMOLOGATION NUMBERS

ROTCAR FLASH
(XENON FLASHING BEACON)

ECE R65 A E2	0092010
EMC 2006/28/CE e3	03 1149 (12V)
EMC 2006/28/CE e3	03 1148 (24V)



FLASH E FLX
FLEXIBLE ISO A
(MOUNT ON
ADAPTER SOCKET)

- > ECE R65 APPROVED <
- > XENON DISCHARGE LAMP <
- > HIGH LIGHT INTENSITY <
- > VERSATILE SOLUTIONS <



ALSO AVAILABLE



FLASH E B
ISO B1
(FLAT BASE)



FLASH E A
ISO A BASE
(MOUNT ON
ADAPTER SOCKET)



FLASH E P
ISO C BASE
(M12 SINGLE BOLT
FIXING BASE)



FLASH E M
(MAGNETIC BASE,
HELIX CABLE AND
CIGARETTE LIGHTER PLUG)



FLASH E MV
(MAGNETIC BASE,
SUCTION PAD,
HELIX CABLE AND
CIGARETTE LIGHTER PLUG)

FLASH E | PART NO

FLASH E
(XENON FLASHING BEACON)
1F 12/24V



ISO B1
ISO A
ISO C
ISO D
MV
FLX

73958
73959
73960
73962
73963
73961

FLASH E

Approved Xenon flashing beacons with polycarbonate dome and fibreglass reinforced polyamide bases.

FLX: flexible rubber base and unbreakable polycarbonate dome.

Developed with powerful Xenon discharge tube 10 Joules.

KEY CHARACTERISTICS

VOLTAGE
12/24V DC

LIGHT EFFECT
STROBE: 10 Joules - single flash (1F)

LIGHT INTENSITY
According to ECE R65

PROTECTION GRADE
IP55

OPERATING TEMPERATURE
-30/+40 °C

MECHANICAL FEATURES

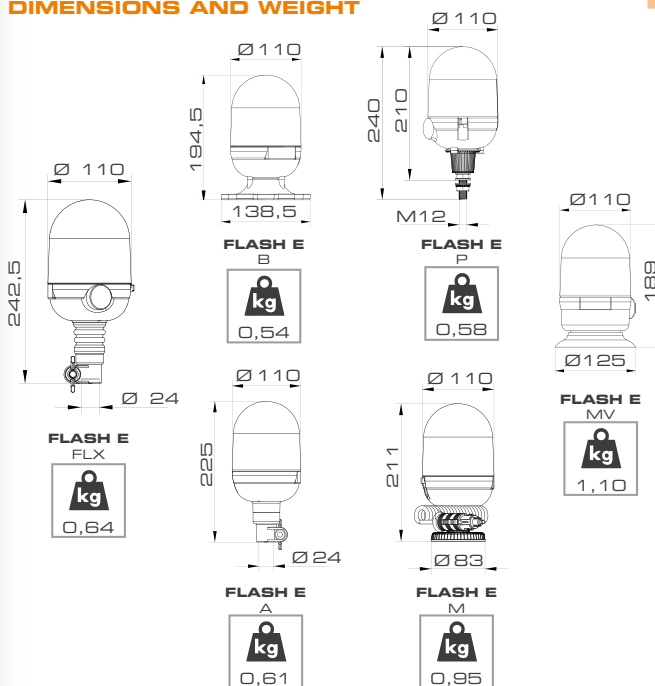
Polycarbonate dome (bayonet mount) and fibreglass reinforced polyamide base

FLX: flexible rubber base (according to ISO 4148, standard form A) and unbreakable polycarbonate dome

OPTICAL FEATURES

Powerful 10 Joules Xenon technology allows a high intensity single flash (1F)

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



HOMOLOGATION NUMBERS

FLASH E
(XENON FLASHING BEACON)

ECE R65 TA1 E3 007027 A
EMC 2006/28/CE e24 03 1483 (12/24V)



**A BASE
FT6** 73546



**A BASE
ROTCAR
ROTCAR FLASH** 88400



**P BASE
RTB/5
RTB/5 FLASH** 83014



**P BASE
FT6** 73547



**P BASE
ROTCAR
ROTCAR FLASH** 88402



**B3M BASE
RTB/5
RTB/5 FLASH** 83152



**B3M BASE
FT6** 73804



**B3M BASE
ROTCAR
ROTCAR FLASH** 88401



**B1M BASE
FT6** 73545



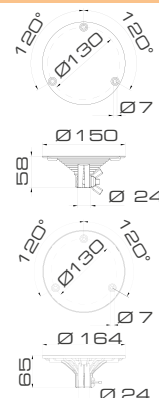
**KIT BM
AGRIROT** 83060

BASES

Bases supplied separately.

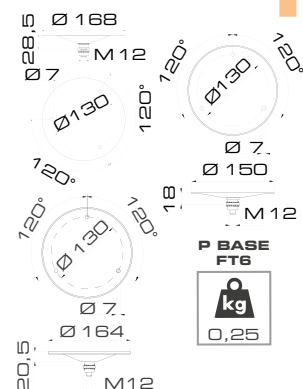
A BASE

Mounting base on adapter socket (according to ISO 4148 standard form A).
Designed for ISO B1 flat base beacons.
Suitable for installation on adapter sockets or telescopic extensions.
Materials:
FT6 version:
Fiberglass reinforced polyamide
ROTCAR version:ABS



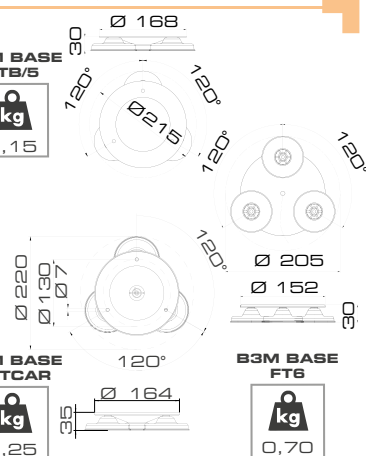
P BASE

M12 single bolt fixing base (according to ISO 4148 standard form C).
Designed for ISO B1 flat base beacons.
Ideal for bracket mounting solutions or for reduced installation surfaces.
Material: metal plate



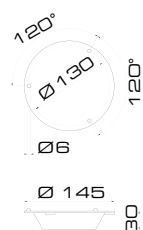
B3M BASE

Base with 3 magnets, helix cable and cigarette lighter plug.
Designed for ISO B1 flat base beacons.
Ideal for removable mount, or when installation must be carried out without drilling holes in vehicle roof.
Materials:
FT6 version: fiberglass reinforced polypropylene and ABS
RTB/5 and ROTCAR versions: fiberglass reinforced polypropylene and metal plate



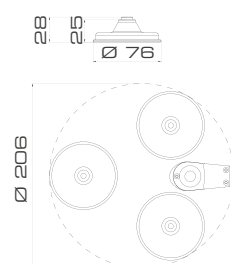
B1M BASE

Base with 1 magnet, helix cable and cigarette lighter plug.
Designed for ISO B1 flat base beacons.
Ideal for removable mount, or when installation must be carried out without drilling holes in vehicle roof.
Materials: ABS



KIT BM AGRIROT

Kit for magnetic installation, 3 magnets, helix cable and cigarette lighter plug.
Designed for the beacon AGRIROT.
Ideal for removable mount, or when installation must be carried out without drilling holes in vehicle roof.
Materials: fiberglass reinforced polypropylene







AMBER/serviline

signaling & lighting for heavy equipment

SEARCH AND WORK BEAMS



Proven quality and high reliability are common features of Sirena's search and work beams.

Radio or cable remote controlled search beams are available with LED or halogen luminous source and offer different installation possibilities: surface mount, on adapter socket or magnetic mount.

Sirena's work beams are available with halogen or Xenon luminous source (Floodlight or Spotlight) for permanent or removable mount.





FORC S B LED
FOTC S B LED
ISO B1 (FLAT BASE)



FORC S A LED
FOTC S A LED
ISO A (MOUNT ON ADAPTER SOCKET)

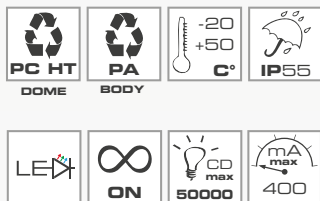


Radio
remote control
for FORC versions



Cable
remote control
for FOTC versions

- > **PATENTED** <
- > **REMOTE CONTROLLED** <
- > **HIGH LIGHT INTENSITY** <



ALSO AVAILABLE



FORC S M LED
FOTC S M LED
(BASE WITH 3 MAGNETS,
HELIX CABLE AND
CIGARETTE
LIGHTER PLUG)



BD FORC S M LED
(BASE WITH 3 MAGNETS,
HELIX CABLE, CIGARETTE
LIGHTER PLUG AND GRID)

FORC LED - FOTC LED | PART NO

	FORC S LED (RADIOCONTROLLED LED SEARCH BEAM)		FOTC S LED (CABLE CONTROLLED LED SEARCH BEAM)	
	12V	24V	12V	24V
ISO B1	45200	45202	45240	45242
ISO A	45208	45210	45244	45246
M	45216	45218	45248	45250
BD	45224	45226	-	-

FORC LED - FOTC LED

Latest generation remote controlled search beams with LED luminous source, extremely bright light output. Radiocontrolled with automatic resetting (FORC S LED versions) or cable operated (FOTC S LED versions*).

High heat resistant polycarbonate dome and fibreglass reinforced nylon base.

* Option with automatic resetting available on request (FOTC ZERO LED)

KEY CHARACTERISTICS

VOLTAGE

12V DC
24V DC

MOTOR

Two worm gear motors guarantee a complete horizontal rotation and a vertical rotation (upwards and downwards at 260° approx.)
Five sintered brushes allow electrical contacts between the fixed base and the moving part of the beam.

LIGHT INTENSITY

50.000 Cd(p)

PROTECTION GRADE

IP55

OPERATING TEMPERATURE

-20/+50 °C

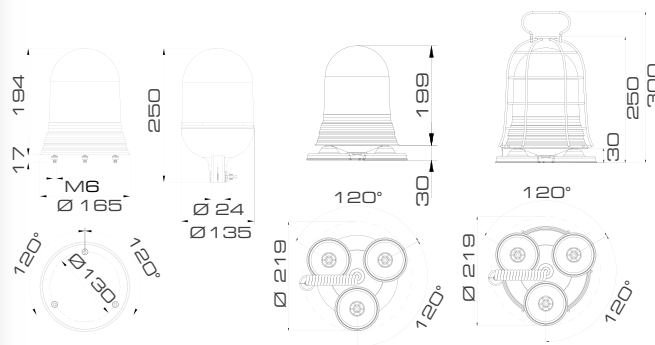
MECHANICAL FEATURES

High heat resistant polycarbonate dome and fibreglass reinforced nylon base (according to ISO 4148, standard form B1 and A). Magnetic versions also available (FORC S M LED - BD FORC S M LED)

OPTICAL FEATURES

Powerful LED source (1 High Power LED) projected on the reflector, producing a rich intense light beam

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



HOMOLOGATION NUMBERS

FORC S LED
(RADIOCONTROLLED
LED SEARCH BEAM)

FOTC S LED
(CABLE CONTROLLED
LED SEARCH BEAM)

EMC UNECE E3 10R 04 1222 (12-24V) 04 1223 (12-24V)



FORC S B
FOTC S B
ISO B1 (FLAT BASE)



FORC S A
FOTC S A
ISO A (MOUNT ON
ADAPTER SOCKET)



Radio
remote control
for FORC versions



Cable
remote control
for FOTC versions

> REMOTE CONTROLLED <
> HIGH LIGHT INTENSITY <



ALSO AVAILABLE



BD FORC S M
(BASE WITH 3 MAGNETS,
HELIX CABLE, CIGARETTE
LIGHTER PLUG AND GRID)

FORC - FOTC | PART NO

	FORC S (RADIOCONTROLLED SEARCH BEAM)		FOTC S (CABLE CONTROLLED SEARCH BEAM)	
	12V — 24V (WITH BULB)		12V — 24V (WITH BULB)	
	Diffused light (D)		Diffused light (D)	
ISO B1	45000	45002	45008	45010
ISO A	45012	45014	45020	45022
BD	45032	45034	-	-
	Depth light (P)		Depth light (P)	
ISO B1	45001	45003	45009	45011
ISO A	45013	45015	45021	45023
BD	45033	45035	-	-
	CABLE REMOTE CONTROL (FOTC 12V)		28059	
	RADIO REMOTE CONTROL (FORC 12/24V)		28058	
	CABLE REMOTE CONTROL (FOTC 24V)		28057	

FORC - FOTC

Remote controlled swivel light beams with halogen light source, extremely bright light output. Radiocontrolled with automatic resetting (FORC S versions) or cable operated (FOTC S versions*).

High heat resistant polycarbonate dome and fibreglass reinforced nylon base.

Developed with halogen light source 55W and 70W.

Available with Diffused light (D) or Depth light (P).

* Option with automatic resetting available on request (FOTC ZERO)

KEY CHARACTERISTICS

VOLTAGE

12V DC (with bulb)
24V DC (with bulb)

MOTOR

Two worm gear motors guarantee a complete horizontal rotation and a vertical rotation (upwards and downwards at 260° approx.).
Five sintered brushes allow electrical contacts between the fixed base and the moving part of the beam.

LIGHT INTENSITY

120.000 Cd(p)

PROTECTION GRADE

IP55

OPERATING TEMPERATURE

-30/+50 °C

MECHANICAL FEATURES

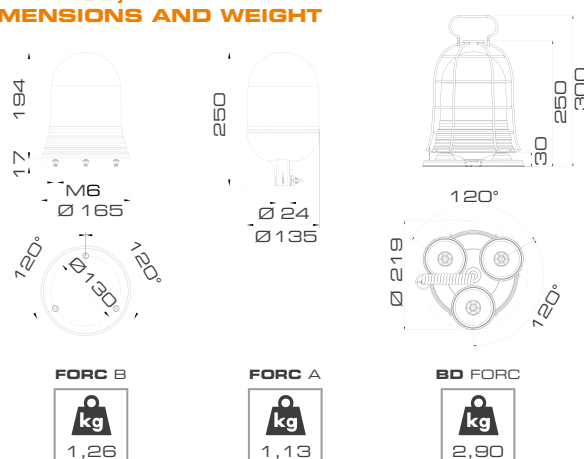
High heat resistant polycarbonate dome and fibreglass reinforced nylon base (according to ISO 4148, standard form B1 and A). Magnetic versions also available (BD FORC S M)

OPTICAL FEATURES

Powerful halogen light source, H1 55W (12V) and 70W (24V) projected on the reflector, producing a rich intense light beam (120.000 Cd(p)).

Illumination: Diffused light (D) or Depth light (P)

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



HOMOLOGATION NUMBERS

FORC S
(RADIOCONTROLLED
SEARCH BEAM)

FOTC S
(CABLE CONTROLLED
SEARCH BEAM)

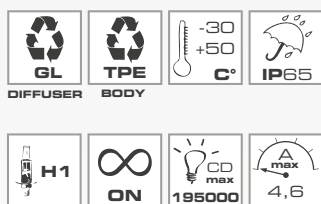
EMC UNECE E3 10R 04 1220 (12-24V) 04 1221 (12-24V)



FO 195 H1 B D
SCREW IN MOUNT
(DIFFUSED LIGHT)

FO 195 H1 B P
SCREW IN MOUNT
(DEPTH LIGHT)

- > **ALLOWS ORIENTATION** <
- > **HALOGEN LUMINOUS SOURCE** <
- > **HIGH LIGHT INTENSITY** <



ALSO AVAILABLE



FO 195 H1 MV D
MAGNETIC BASE,
SUCTION PAD,
HELIX CABLE AND
CIGARETTE LIGHTER PLUG
(DIFFUSED LIGHT)



FO 195 H1 MV P
MAGNETIC BASE,
SUCTION PAD,
HELIX CABLE AND
CIGARETTE LIGHTER PLUG
(DEPTH LIGHT)

FO 195 H1 | PART NO

	FO 195 H1 D (LIGHT BEAM) DIFFUSED LIGHT (D)		FO 195 H1 P (LIGHT BEAM) DEPTH LIGHT (P)	
	12V — 24V (WITH BULB)		12V — 24V (WITH BULB)	
B	29976	29978	29977	29989
MV	30003	29988	30004	30005

FO 195 H1

Halogen swivel light beams, extremely bright light output. TPE housing and tempered glass light diffuser.

Available with Diffused light (D) or Depth light (P).

Developed with halogen light source 55W and 70W.

KEY CHARACTERISTICS

VOLTAGE

12V DC (with bulb)
24V DC (with bulb)

LIGHT INTENSITY

195.000 Cd(p)

PROTECTION GRADE

IP65

OPERATING TEMPERATURE

-30/+50 °C

MECHANICAL FEATURES

TPE housing and tempered glass light diffuser
Allows orientation with retaining spring
Screw in mount (B versions) or Neodymium magnet mount (MV versions)

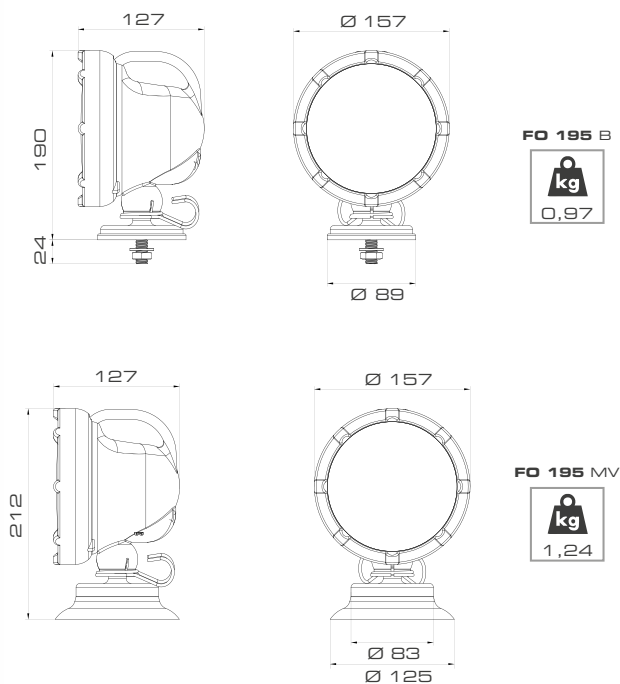
OPTICAL FEATURES

Powerful halogen light source, H1 55W (12V) and 70W (24V) projected on the reflector, producing a rich intense light beam (195.000 Cd(p))

Metal plate spotlight reflector

Illumination: Diffused light (D) or Depth light (P)

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS

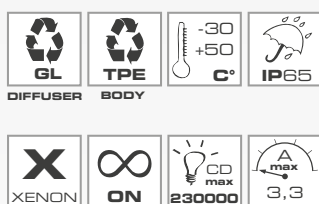




FO 230 HID B D
SCREW IN MOUNT
(DIFFUSED LIGHT)

FO 230 HID B P
SCREW IN MOUNT
(DEPTH LIGHT)

- > **ALLOWS ORIENTATION** <
- > **XENON LUMINOUS SOURCE** <
- > **HIGH LIGHT INTENSITY** <



ALSO AVAILABLE



FO 230 HID MV D
MAGNETIC BASE,
SUCTION PAD,
HELIX CABLE AND
CIGARETTE LIGHTER PLUG
(DIFFUSED LIGHT)



FO 230 HID MV P
MAGNETIC BASE,
SUCTION PAD,
HELIX CABLE AND
CIGARETTE LIGHTER PLUG
(DEPTH LIGHT)

FO 230 HID | PART NO

	FO 230 HID D (LIGHT BEAM) DIFFUSED LIGHT (D)	FO 230 HID P (LIGHT BEAM) DEPTH LIGHT (P)
	12/24V	12/24V
B	29970	29987
MV	29985	30006

FO 230 HID

Xenon swivel light beams, extremely bright light output. TPE housing and tempered glass light diffuser.

Available with Diffused light (D) or Depth light (P).

Developed with Xenon light source 35W.

KEY CHARACTERISTICS

VOLTAGE
12/24V DC

LIGHT INTENSITY
230.000 Cd(p)

PROTECTION GRADE
IP65

OPERATING TEMPERATURE
-30/+50 °C

MECHANICAL FEATURES

TPE housing and tempered glass light diffuser
Allows orientation with retaining spring.
Screw in mount (B versions) or Neodymium magnet mount (MV versions)

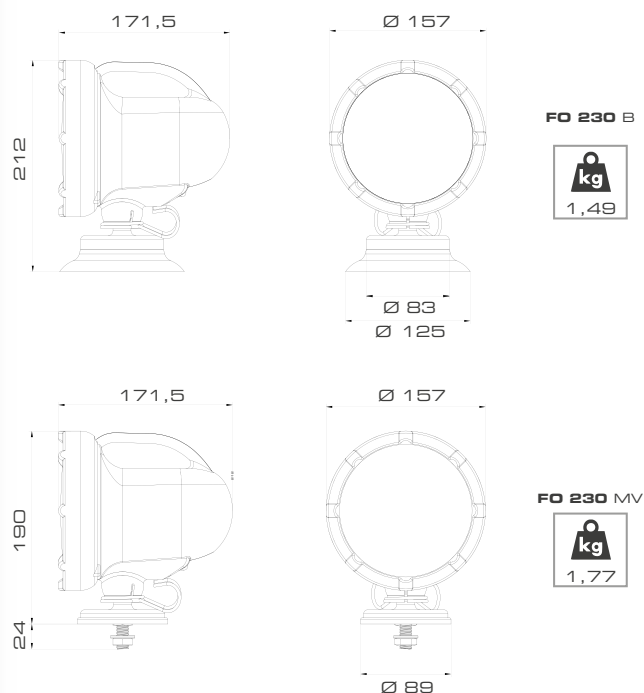
OPTICAL FEATURES

Powerful Xenon light source 35W projected on the reflector, producing a rich intense light beam (230.000 Cd(p)).

Metal plate spotlight reflector.

Illumination: Diffused light (D) or Depth light (P)

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS





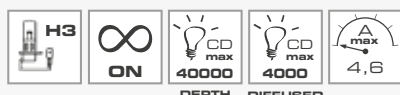
FDL A D
ISO A MOUNT
(DIFFUSED LIGHT)

FDL A P
ISO A MOUNT
(DEPTH LIGHT)

- > **ALLOWS ORIENTATION** <
- > **HALOGEN LUMINOUS SOURCE** <
- > **HIGH LIGHT INTENSITY** <



DIFFUSER BODY



DEPTH DIFFUSED

ALSO AVAILABLE



FDL M D
MAGNETIC BASE,
HELIX CABLE AND
CIGARETTE LIGHTER PLUG
(DIFFUSED LIGHT)



FDL M P
MAGNETIC BASE,
HELIX CABLE AND
CIGARETTE LIGHTER PLUG
(DEPTH LIGHT)



FDL P D
STUD MOUNT
(DIFFUSED LIGHT)



FDL P P
STUD MOUNT
(DEPTH LIGHT)

FDL I PART NO

	FDL D (WORK BEAM) DIFFUSED LIGHT (D)	FDL P (WORK BEAM) DEPTH LIGHT (P)
ISO A	28019 28031	28018 28030
M	28028 28029	28027 28026
P	29982 29983	28048 28044
	12V — 24V (WITH BULB)	12V — 24V (WITH BULB)

FDL

Halogen work beams, extremely bright light output. PA housing and tempered glass light diffuser.

Available with Diffused light (D) or Depth light (P).

Developed with halogen light source 55W and 70W.

KEY CHARACTERISTICS

VOLTAGE

12V DC
24V DC

LIGHT INTENSITY

DEPTH: 40.000 Cd(p)
DIFFUSED: 4.000 Cd(p)

PROTECTION GRADE

IP44

OPERATING TEMPERATURE

-30/+50 °C

MECHANICAL FEATURES

PA housing and tempered glass light diffuser. Allows orientation.

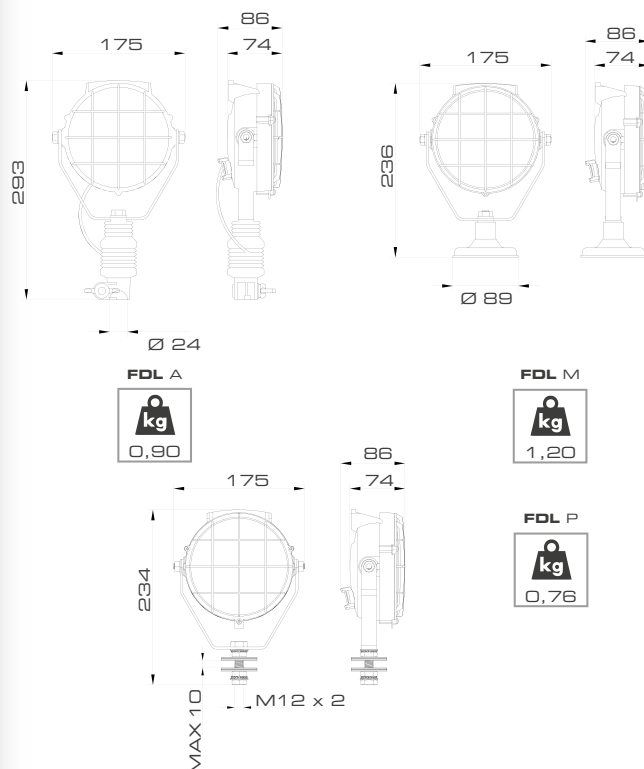
ISO A mount (A versions), magnetic base with helix cable (M versions) or stud mount (P versions)

OPTICAL FEATURES

Powerful halogen light source, H3 55W (12V) and 70W (24V) projected on the reflector, producing a rich intense light beam (40.000 Cd(p) - Depth light, 4000 Cd(p) - Diffused light.

Illumination: diffused light (D) or Depth light (P)

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



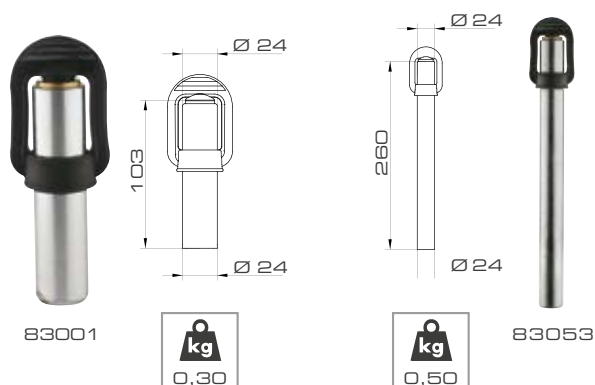
AMBER/serviline

signaling & lighting for heavy equipment

ACCESSORIES FOR LUMINOUS DEVICES

S - S MM 260

Adapter sockets to be welded



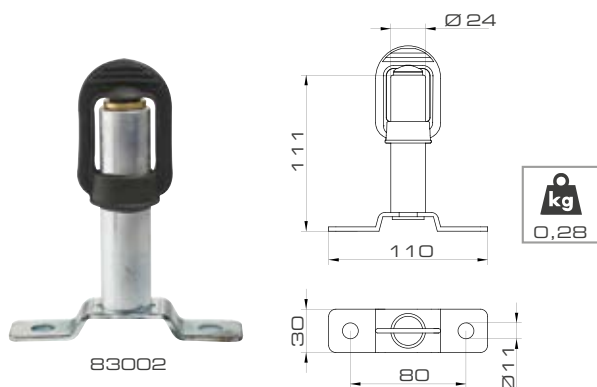
FZ

Threaded adapter socket, zamac nut



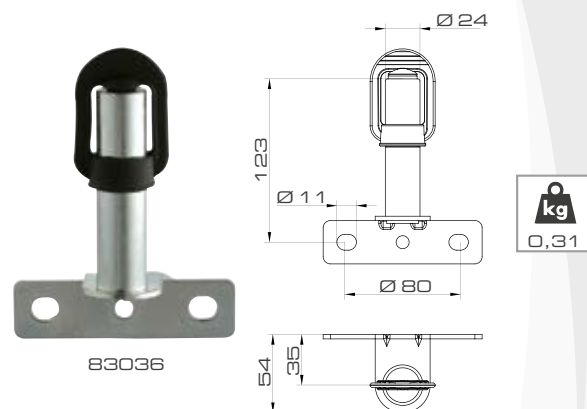
B

Adapter socket with base



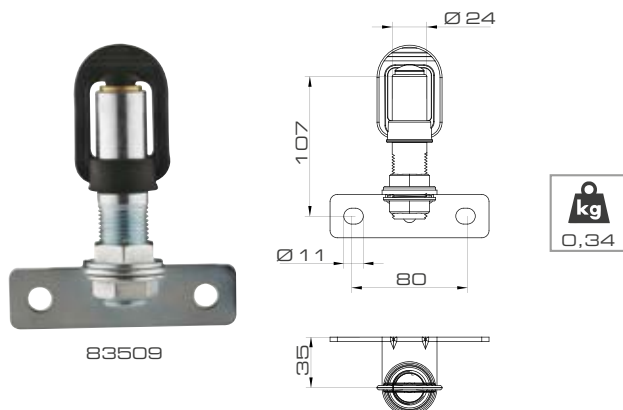
SP

Wall mount adapter socket



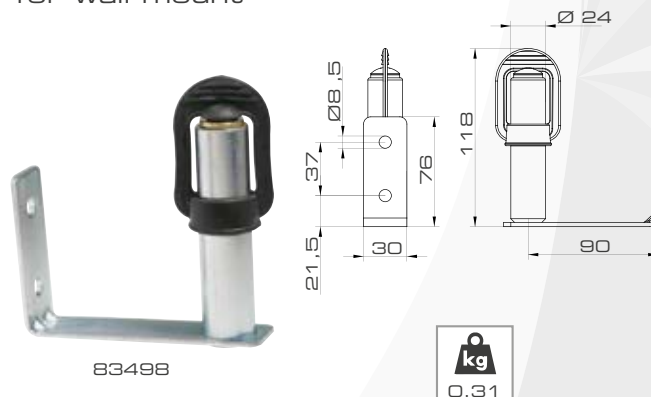
FZP

Wall mount threaded adapter socket, zamac nut



SL

Adapter socket with bracket for wall mount



All adapters have an internal brass socket.
Other accessories available on request.

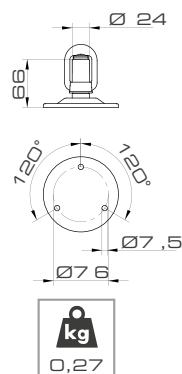
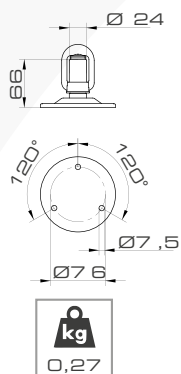
ADAPTER SOCKETS

R - R INOX

Round base adapter sockets



83035



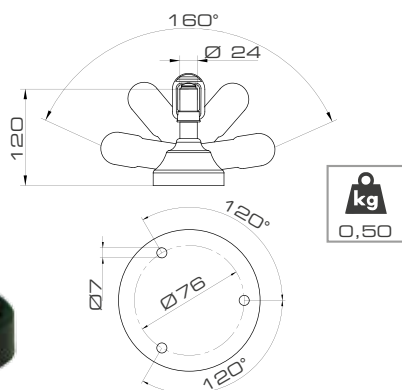
83052

OSC

Oscillating adapter socket

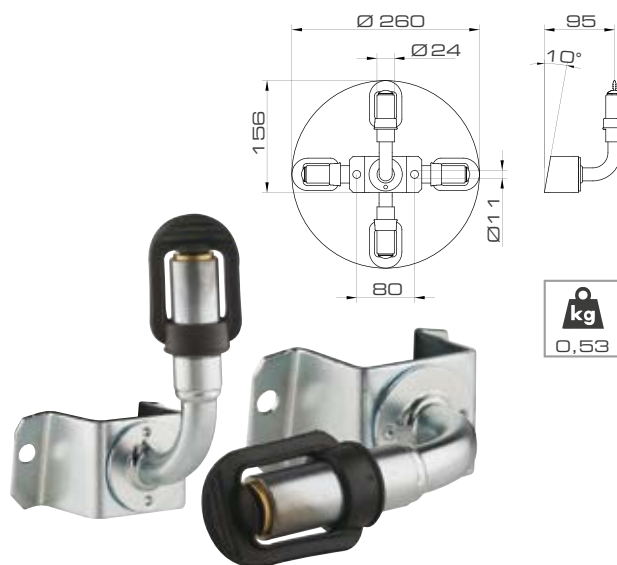


83038



SPL/I

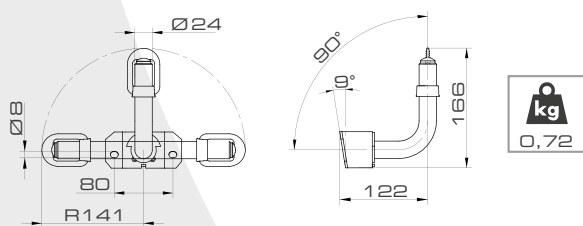
Tilted directional support for cabins



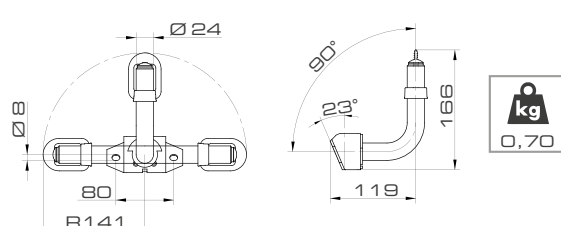
83510

SPL/9 - SPL/23

Tilted directional supports with a 90° hold for cabins



83516



83517

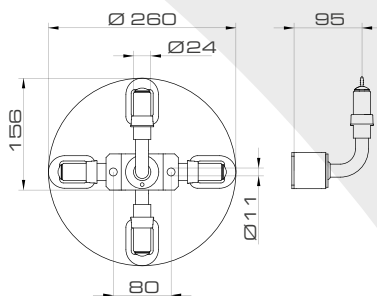
All adapters have an internal brass socket.
Other accessories available on request.

SPL/D - SPL/D NERO

Upright directional supports for cabins



83511



83519

SPRT - SPR

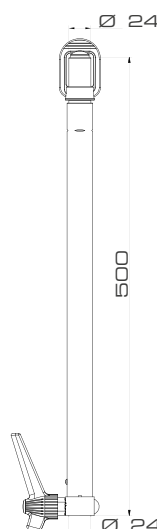
Aluminium telescopic extension pole - Aluminium extension pole



83040



83039



All adapters have an internal brass socket.
Other accessories available on request.

EXTENSION POLES



AMBER/serviline

signaling & lighting for heavy equipment

LINEAR WARNING LIGHTS

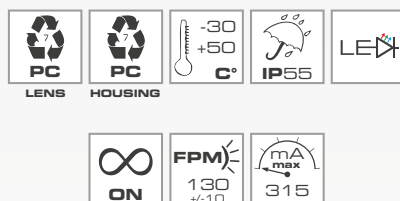
Special safety precautions are necessary in order to prevent accidents during utility services operations. Directional lighting allows increasing the warning of a danger to other approaching road users.

Thanks to their high intensity LED technology, low consumption, and compact design Sirena's Linear Warning Lights represent the ideal choice for directional lighting.





> LOW CONSUMPTION <
> EXCELLENT OPTICAL PERFORMANCE <



MICRO FLI | PART NO

MICRO FLI (LINEAR WARNING LIGHTS)			
12/24V			
	A	R	N
allCOLOR	90280	90282	90283
allCLEAR	90286	90285	-

MICRO FLI new

Superbright LED linear warning lights suitable where the signaling function is important but where compact size is required.

The device allows two lighting effects: flashing light (double flash) and cruise light

Polycarbonate dome and housing.

Available with allCOLOR and allCLEAR lens.

KEY CHARACTERISTICS

VOLTAGE
12/24V DC

LIGHT EFFECT
FLASHING EFFECT: double flash (2F)
CRUISE LIGHT

PROTECTION GRADE
IP55

OPERATING TEMPERATURE
-30/+50 °C

MECHANICAL FEATURES

Unbreakable polycarbonate lens and housing

OPTICAL FEATURES

Optical group made up of 3 superbright LED allowing a high intensity flashing effect (double flash) or cruise light.

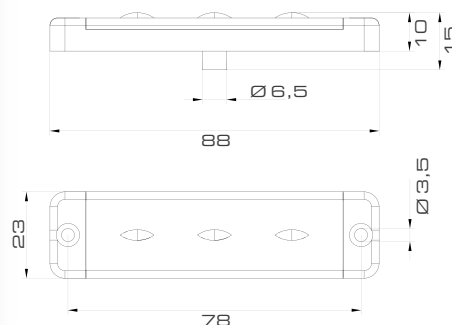
allCOLOR

Colored lens with colored light source.

allCLEAR

Clear lens with colored light source.

DRAWINGS, DIMENSIONS AND WEIGHT



MICRO FLI



CERTIFICATIONS



PENDING

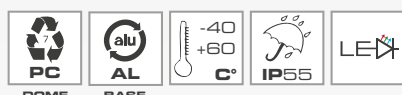
HOMOLOGATION NUMBERS

MICRO FLI
(LINEAR WARNING LIGHTS)

EMC UNECE 10R E3 PENDING (12/24V)



- > LOW CONSUMPTION <
- > EXCELLENT OPTICAL PERFORMANCE <
- > SYNCHRONIZABLE <



PRD | PART NO

PRD
(LINEAR WARNING LIGHTS)

12/24V



PRD

72953

PRD

Superbright LED linear warning lights suitable for external installation.

Polycarbonate dome and anodized aluminium base.

PRD can be synchronized with more items (max. 4 devices) switched on simultaneously

KEY CHARACTERISTICS

VOLTAGE
12/24V DC

LIGHT EFFECT
FLASHING EFFECT: single (1F) or double flash (2F)

PROTECTION GRADE
IP55

OPERATING TEMPERATURE
-40/+60 °C

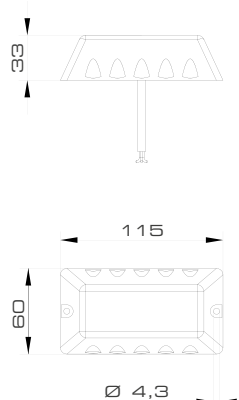
MECHANICAL FEATURES

Unbreakable polycarbonate dome and anodized aluminium base

OPTICAL FEATURES

Optical group made up of 8 superbright LED allowing a high intensity flashing effect (single or double flash). Reflective lens for light output diffusion and amplification

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



HOMOLOGATION NUMBERS

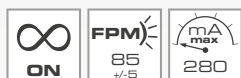
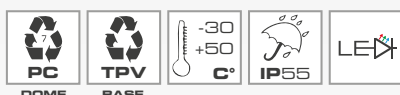
PRD
(LINEAR WARNING LIGHTS)

EMC 2006/28/CE e3 03 1200 (12/24V)



KIT FLI MD LD 36Q-E

- > LOW CONSUMPTION <
> EXCELLENT OPTICAL PERFORMANCE <
> MASTER/SLAVE TECHNOLOGY <



KIT FLI MD

LED linear warning lights with Master/Slave technology.

Developed with 36 very bright LED allowing to deliver an excellent optical performance (3 synchronized flashes).

Polycarbonate dome and thermoplastic rubber base.

KEY CHARACTERISTICS

VOLTAGE
12/24V DC

LIGHT EFFECT
FLASHING EFFECT: 3 synchronized flashes (3F)

PROTECTION GRADE
IP55

OPERATING TEMPERATURE
-30/+50 °C

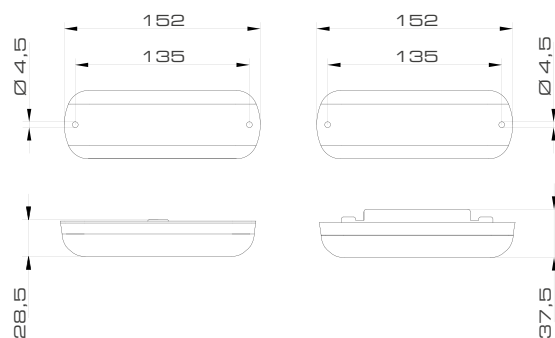
MECHANICAL FEATURES

Unbreakable polycarbonate dome and thermoplastic rubber base

OPTICAL FEATURES

Optical group made up of 36 very bright LED allowing a high intensity flashing effect (3 synchronized flashes)

DRAWINGS, DIMENSIONS AND WEIGHT



KIT FLI MD



KIT FLI MD | PART NO

KIT FLI MD
(LINEAR WARNING LIGHTS)

12/24V



KIT FLI MD

72968

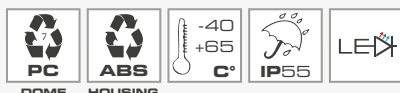
CERTIFICATIONS





GEKO LED

- > ECE R65 APPROVED <
- > LOW CONSUMPTION <
- > EXCELLENT OPTICAL PERFORMANCE <
- > SELECTABLE FLASH PATTERNS <



GEKO LED | PART NO

GEKO LED
(WINDSHIELD WARNING LIGHT)

12/24V

GEKO LED

72990

72989

GEKO LED

LED windshield warning light developed with 6 high power LED and integrated electronic. Anti-glare protection.

It is possible to direct the light emission depending on vehicle type.

Selectable flash patterns (cruise light available).

Polycarbonate dome and ABS housing. Installation by means of dual lock velcro strip.

KEY CHARACTERISTICS

VOLTAGE
12/24V DC

LIGHT EFFECT
Selectable flash patterns

LIGHT INTENSITY
According to ECE R65

PROTECTION GRADE
IP55

OPERATING TEMPERATURE
-40/+65 °C

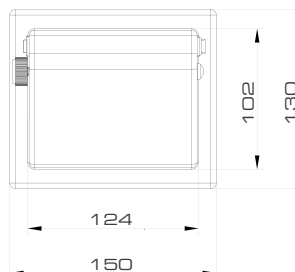
MECHANICAL FEATURES

Unbreakable polycarbonate dome and ABS housing

OPTICAL FEATURES

Optical group made up of 6 very bright LED. Selectable flash patterns (cruise light available)

DRAWINGS, DIMENSIONS AND WEIGHT



GEKO LED



CERTIFICATIONS



HOMOLOGATION NUMBERS

GEKO LED
(WINDSHIELD WARNING LIGHT)

ECE R65	XA1 E8	00 1113	A
ECE R65	XR1 E8	00 1112	R
EMC 2006/28/CE	e8	03 0105 (12/24V)	



AMBER/serviline

signaling & lighting for heavy equipment

TEMPORARY EMERGENCY SIGNALING DEVICES

Temporary Emergency Signaling Devices are a necessary part of work zones as they create a “safety zone”, warning drivers and pedestrians of potential hazards such as disabled vehicle, roadway obstruction or accident scene.

The brilliant luminous emission of Sirena's LED warning devices, SAFE LED and BMX AA, allows them to be seen at great distances without distracting passing vehicles.

PLX AD mini torch complement the range, offering the ideal flashing or steady light, to be used for traffic control and emergency signaling.

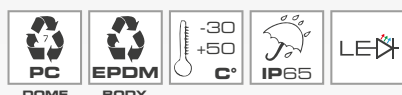




SAFE LED



> ACCORDING TO UNI EN 12352 NORM <
> LOW CONSUMPTION <
> 9V ALKALINE BATTERY <



ALSO AVAILABLE



BLISTER SAFE LED
BLISTER VERSION WITH
DEVICE AND DIFFUSER
(OPTION: MINI TORCH)



BOX V4 SAFE LED
4 DEVICES
(OPTION: 4 DIFFUSERS)

SAFE LED | PART NO

SAFE LED
(TEMPORARY EMERGENCY SIGNALING DEVICE)



SAFE LED 74742
BLISTER SAFE LED 74932
BLISTER SAFE LED+TORCH 74942
BOX V4 SAFE LED 74922
BOX V4 SAFE LED+4 DIFFUSERS 74915

74745
74935
74945
74925
74915

SAFE LED

LED device for temporary emergency signaling, conforming with UNI EN 12352 norm (Traffic control equipment - Warning & Safety Light Devices).

SAFE LED does not substitute the use of the obligatory triangle (according to Highway Code Regulations), but represents an important safety accessory to signal a broken down vehicle.

Developed with LED light source, SAFE LED is supplied with a cone shaped accessory to improve light diffusion and with 2 9V-Alkaline batteries (one as spare part).

Magnetic base version available on request.

Colours available: amber - yellow

KEY CHARACTERISTICS

VOLTAGE

9V (Alkaline battery)

LIGHT EFFECT

FLASHING EFFECT

PROTECTION GRADE

IP65

OPERATING TEMPERATURE

-30/+50 °C

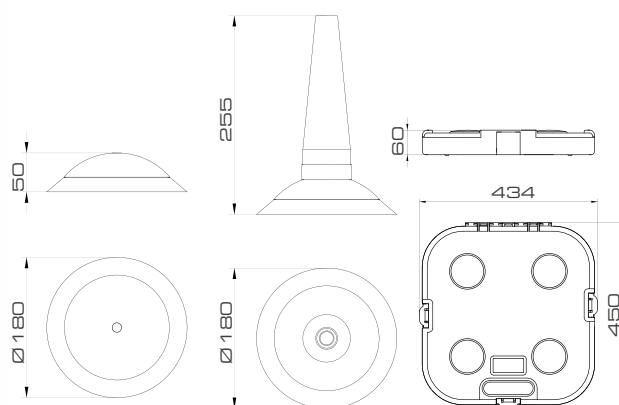
MECHANICAL FEATURES

Unbreakable polycarbonate dome and rubber base

OPTICAL FEATURES

Optical group made up of 1 LED allowing a high intensity flashing effect

DRAWINGS, DIMENSIONS AND WEIGHT



SAFE LED

SAFE LED +
DIFFUSERBOX V4
SAFE LED

CERTIFICATIONS

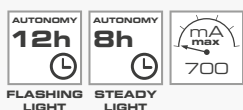
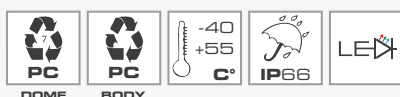




BMX AA



> ACCORDING TO UNI EN 12352 NORM <
> LOW CONSUMPTION <
> RECHARGEABLE BATTERIES <



BMX AA | PART NO

BMX AA
(TEMPORARY EMERGENCY SIGNALING DEVICE)



BMX AA	74674	74670	74597	74673	-
DIFFUSER	74801	74808	74793	74794	74795
ADAPTER	74807				

BMX AA

LED device for temporary emergency signaling, conforming with UNI EN 12352 norm (Traffic control equipment - Warning & Safety Light Devices).

Rugged device (can be run over by vehicles) provided with polycarbonate dome and body (anti-shock PVC protection and high refractive white adhesive film). Base with three Neodymium magnets.

Developed with LED light source (flashing and steady light), BMX AA is supplied with rechargeable batteries and recharge cable for cigarette lighter plug.

Mains feeders and recharge cases also available (see page 56).

Colours available: blue - amber - red - green

KEY CHARACTERISTICS

RECHARGE VOLTAGE
12/24V DC

MAX. CHARGE TIME
180 min.

LIGHT EFFECT
FLASHING EFFECT (triple flash) for emergency signalling
STEADY LIGHT

PROTECTION GRADE
IP66

OPERATING TEMPERATURE
-40/+55 °C

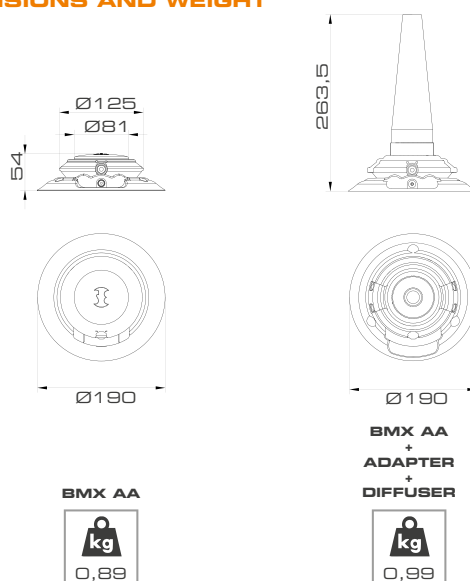
MECHANICAL FEATURES

Unbreakable polycarbonate dome and body with anti-shock PVC protection

OPTICAL FEATURES

Optical group made up of 40 very bright LED allowing a high intensity flashing effect (triple flash) or steady light

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS





BOX C2



BOX V4

Option



BOX P6/1

Part nos. available on request



AR V4

74217



AR 3 CRB/1

74494

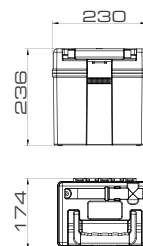
BOX

Special transportation cases for 2, 4 or 6 pieces cabled for charging operation:

BOX C2

Contents of BOX C2:

- No. 2 BMX AA (colour options)
- No. 2 adapters for diffuser
- No. 2 coloured diffusers (colour options)
- No. 1 MICRO PLX torch
- No. 1 road marker



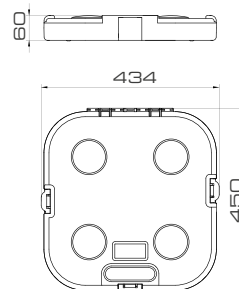
BOX C2



BOX V4

Contents of BOX V4:

- No. 4 BMX AA (colour options)
- Option: blister with 4 diffusers (colour options)
- 4 adapters



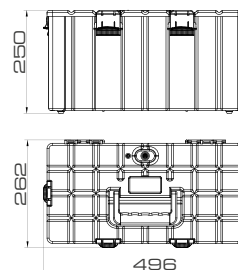
BOX V4



BOX P6/1

Contents of BOX P6/1:

- No. 6 BMX AA (colour options)
- No. 6 adapters for diffuser
- No. 6 coloured diffusers (colour options)



BOX P6/1



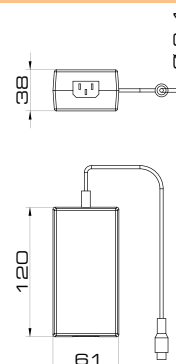
PSU

Power Supply Units.
Technical Characteristics:

AR V4

For: 1 BOX V4 or 1 BOX P6/1

- Input: 100/240V ac 50/60 Hz
- Output: 13,5V dc
- I_{max}: 5 A



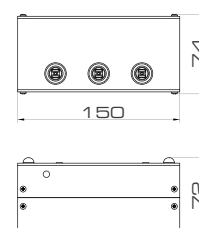
AR V4



AR 3 CRB/1

For: 2 BOX C2 or
2 BOX V4 or
1 BOX P6/1 or
8 BMX AA max.

- Input: 100/240V ac 50/60 Hz
- Output: 13,5V dc
- I_{max}: 5 A



AR 3 CRB/1



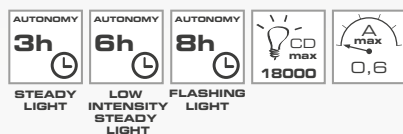
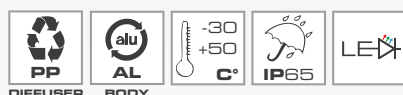
CERTIFICATIONS





PLX AD

- > **SUPERBRIGHT** <
- > **ADJUSTABLE LIGHT SPAN** <
- > **RECHARGEABLE BATTERY** <



SUPPLIED WITH



240V BATTERY CHARGER
PLX AD



CAR BATTERY CHARGER
PLX AD

PLX AD | PART NO

PLX AD
(LED MINI TORCH)

PLX AD

74910

PLX AD

PLX AD torch offers excellent optical performance in a compact design (black aluminium body).

With a powerful projecting adjustable LED beam, allows PLX AD three luminous effects: steady light, low intensity steady light and flashing light.

Operation with rechargeable battery.

Orange signaling cone, battery and chargers supplied with the torch.

KEY CHARACTERISTICS

RECHARGE VOLTAGE

12/24V DC

Battery: 3,7V li-ion 3000/mAh

MAX. CHARGE TIME

150 min.

LIGHT EFFECT

STEADY LIGHT

LOW INTENSITY STEADY LIGHT

FLASHING LIGHT

LIGHT INTENSITY

STEADY LIGHT: 18.000 Cd(p)

LOW INTENSITY STEADY LIGHT: 5.000 Cd(p)

PROTECTION GRADE

IP65

OPERATING TEMPERATURE

-30/+50 °C

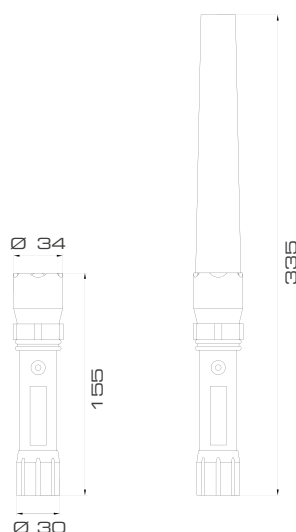
MECHANICAL FEATURES

Black aluminium body and polypropylene signaling cone

OPTICAL FEATURES

Optical group made up of 1 very bright LED allowing a high intensity steady light, low intensity steady light and flashing effect.

DRAWINGS, DIMENSIONS AND WEIGHT



CERTIFICATIONS



AMBER/serviline

signaling & lighting for heavy equipment

CERTIFICATIONS AND NORMATIVES

NORMATIVE REFERENCES FOR APPROVAL OF LUMINOUS DEVICES FOR AUTHORIZED VEHICLES

European Directive 2006/28/EC (and subsequent amendments) and/or **Regulation UNECE No. 10** determine the requirements that vehicles and electrical and/or electronic devices (intended to be fitted in these vehicles) should fulfil with regard to electromagnetic compatibility.

European Directive 2006/28/EC amends, for the purposes of their adaptation to technical progress, Council Directive 72/245/EEC, relating to the radio interference (electromagnetic compatibility) of motor vehicles (approval e..).

Regulation UNECE No. 10 applies to vehicles, components or electrical/electronic units (mechanically fastened to the vehicle so that they cannot be removed without use of tools or connected permanently or temporarily to the vehicle wiring harness) with regard to electromagnetic compatibility (approval E..).

Electromagnetic compatibility means the ability of a vehicle or components or separate technical units to function satisfactorily (immunity) in its electromagnetic environment without introducing intolerable electromagnetic disturbances to anything in that environment (emission).

Luminous warning devices manufactured by Sirena, intended to be used on authorized vehicles, fulfil the requirements of the European Directive 2006/28/EC (and subsequent amendments) or of the Regulation UNECE No. 10 and have therefore be assigned an approval number.

Regulation No. 65 - Uniform provisions concerning the approval of special warning lamps for power-driven vehicles and their trailers

Regulation UNECE No. 65 applies to special warning lamps for power-driven vehicles and their trailers.

"Special warning lamp" means a lamp emitting blue, amber or red light intermittently for use on vehicles.

It is possible to distinguish devices among:

“Rotating or stationary flashing lamp” means a special warning lamp emitting light intermittently all around its vertical axis (Category T).

“Directional flashing lamp” means a special warning lamp emitting light intermittently in a limited angular area (Category X).

“Complete bar” means a special warning lamp with two or more optical systems emitting light intermittently all around its vertical axis.

Special warning lamp could have one level of intensity (class 1), or two levels of intensity (class 2).

Regulation UNECE No. 65 outlines i.a. specifications that special warning lamps should comply with in order to obtain the approval:

- **general specifications** (vibration and water resistance, frequency, the “ON” and the “OFF” time, operating temperature range, tamperproof..)
- **photometric specifications** (minimum and maximum values of the effective luminous intensity)
- **colorimetric characteristics** of the light emitted through the filter/covers (blue/amber/red) expressed in chromaticity coordinates.

Luminous warning devices manufactured by Sirena fulfil the requirements of Regulation UNECE No. 65.



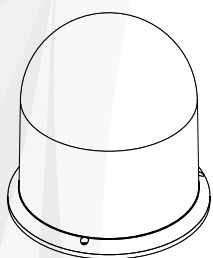
AMBER/serviline

signaling & lighting for heavy equipment

SPARE DOMES

71932

A

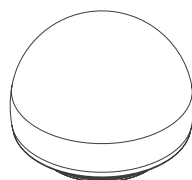


AGRIROT



71140

A

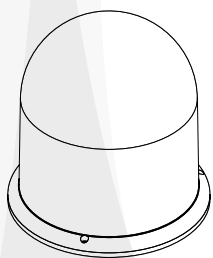


**BOULE
BOULE FLASH**



71937

A

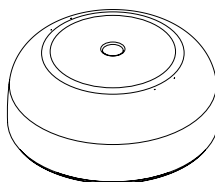


AGRIROT FLX



72743

A

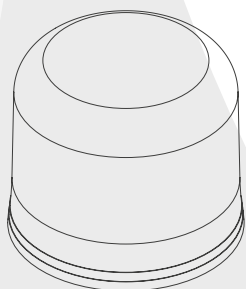


**CRYSTAL LED
CRYSTAL 8X LED**



71118

A

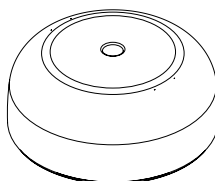


B2 L
(internally
smooth)



72754

R

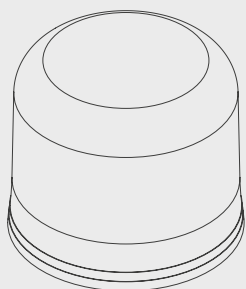


CRYSTAL 8X LED



71227

A

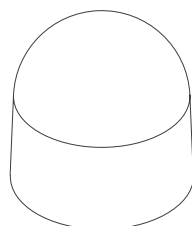


B2 R
(internally
fluted)



73567

A

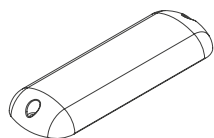


FLASH E



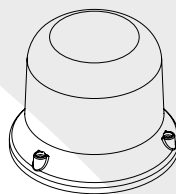
72612

A

**FLI MD**

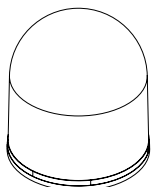
74069

A

**FR5 H1 B
FX5 FLASH**
(internally smooth)

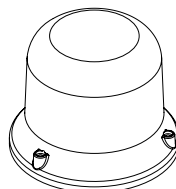
73970

N

**FORC S A LED
FOTC S A LED
FORC S A
FOTC S A**

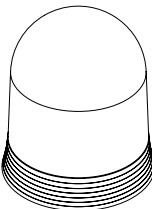
73976

R

**FR5 H1 B**
(internally smooth)

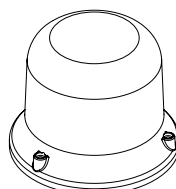
73971

N

**FORC S B LED
FOTC S B LED
FORC S B
FOTC S B
FORC S M LED
FOTC S M LED
BD FORC S M LED
BD FORC S M**

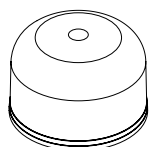
74062

A

**FR5 R LED B R
FX5 8X LED B
FX5 X LED B R**
(internally fluted)

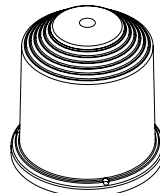
73965

A

**FR5 H1 A**
(internally smooth)

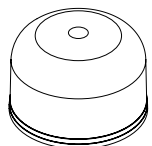
73537

A

**FT6**

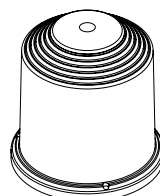
73974

R

**FR5 H1 A**
(internally smooth)

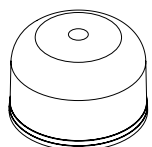
73536

A

**FT6 FLX**

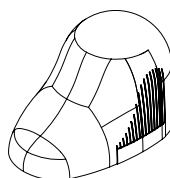
74064

A

**FR5 R LED A R
FX5 8X LED A
FX5 X LED A R**
(internally fluted)

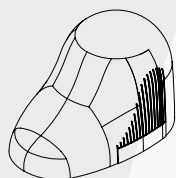
74452

A

**GDO R LED
GDO X LED
GDO FLASH
GDO - GDO BF**

76012

A

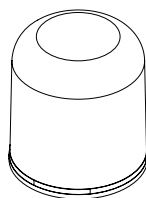


**SUPER
GDO BAF**



73500

A

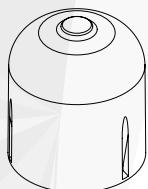


RTB/5 A



71150

A

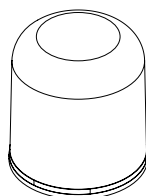


GF 8.8



73532

A

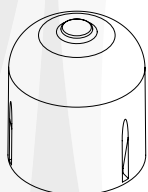


RTB/5 FLASH A



71177

A

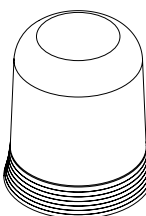


GF 8.8 FLASH



73506

A

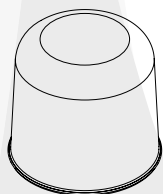


RTB/5 B



71343

A

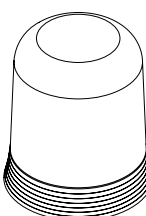


ROTCAR FLASH



73516

A

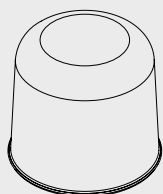


**RTB/5 R LED
RTB/5 X LED
RTB/5 8X LED
RTB/5 FLASH B**



71350

A

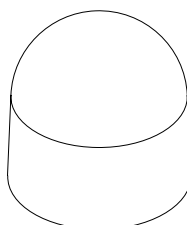


ROTCAR L
(internally
smooth)



73569

A

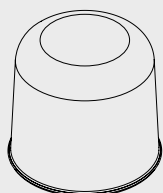


TORNADO



71355

A



















ROTCAR R
(internally
fluted)



AMBER/serviline

signaling & lighting for heavy equipment
























IP RATING

EN 60529 "International Protection Levels of Enclosures"	
1 ST DIGIT PROTECTION AGAINST ACCIDENTAL CONTACT AND PENETRATION BY SOLID FOREIGN BODIES	2 ND DIGIT PROTECTION AGAINST PENETRATION OF LIQUIDS
 IP0X NO PARTICULAR PROTECTION	 IPX0 NO PARTICULAR PROTECTION
 IP1X PROTECTION AGAINST SOLID BODIES OVER 50 MM AND AGAINST CONTACTS BY LARGE SURFACES OF THE HUMAN BODY (e.g. the hands)	 IPX1 PROTECTION AGAINST THE VERTICAL FALL OF DROPS OF WATER (e.g. condensation)
 IP2X PROTECTION AGAINST SOLID BODIES OVER 12,5 MM AND AGAINST FINGER CONTACT	 IPX2 PROTECTION AGAINST THE VERTICAL FALL OF DROPS OF WATER WITH A MAXIMUM INCLINE OF 15°
 IP3X PROTECTION AGAINST SOLID BODIES OVER 2,5 MM (e.g. tools, wires)	 IPX3 PROTECTION AGAINST THE VERTICAL FALL OF DROPS OF WATER WITH A MAXIMUM INCLINE OF 60°
 IP4X PROTECTION AGAINST PENETRATION OF SOLID BODIES WITH A DIAMETER OR THICKNESS OVER 1MM (e.g. wires)	 IPX4 PROTECTION AGAINST SPLASHES OF WATER FROM ALL DIRECTIONS
 IP5X DUST PENETRATION IS NOT FULLY EXCLUDED, BUT THE QUANTITY THAT PENETRATES CAUSES NO DAMAGING EFFECTS	 IPX5 PROTECTION AGAINST JETS OF WATER FROM ALL DIRECTIONS
 IP6X NO DUST PENETRATION IS PERMITTED	 IPX6 PROTECTION AGAINST WAVES OF WATER OR POWERFUL JETS
	 IPX7 PROTECTION AGAINST THE EFFECTS OF IMMERSION
	 IPX8 PROTECTION AGAINST THE EFFECTS OF PROLONGED IMMERSION UNDER PRESSURE

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signaling & lighting for heavy equipment

LEGEND

SYMBOLS PRODUCT PAGES	
 MATERIAL POLYCARBONATE	 LUMINOUS SOURCE LED
 MATERIAL POLYCARBONATE (HIGH TEMPERATURE)	 LUMINOUS SOURCE XENON
 MATERIAL METHACRYLATE	 LUMINOUS SOURCE HALOGEN
 MATERIAL ABS	 LUMINOUS SOURCE HALOGEN
 MATERIAL ALUMINIUM	 LUMINOUS SOURCE HALOGEN
 MATERIAL POLYAMIDE (NYLON)	 CONTINUOUS OPERATION
 MATERIAL THERMOPLASTIC ELASTOMER	 PEAK CANDELAS MAX.
 MATERIAL THERMOPLASTIC ELASTOMER VULCANIZATE	 CURRENT CONSUMPTION MAX.
 MATERIAL ETHYLENE PROPYLENE DIENE MONOMER (RUBBER)	 FLASHES PER MINUTE
 MATERIAL POLYPROPYLENE	 ROTATIONS PER MINUTE
 MATERIAL GLASS	 BATTERY AUTONOMY
 TEMPERATURE MIN. AND MAX.	
 IP RATING	

AMBER/serviline

signaling & lighting for heavy equipment

The complete range of
AMBER signaling devices also includes:

AMBER/agriline

An extensive signaling devices portfolio
developed for agricultural machinery.

AMBER/forkline

A complete range of signaling devices
developed to improve safety
in forklift operations.

Sirena's know-how
and experience
for professional needs.



AMBER/serviline is Sirena's range of
signaling & lighting devices engineered
for heavy equipment

amber@sirena.it



MADE IN ITALY

Engineered,
Developed and
Assembled in
Rosta, Italy

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