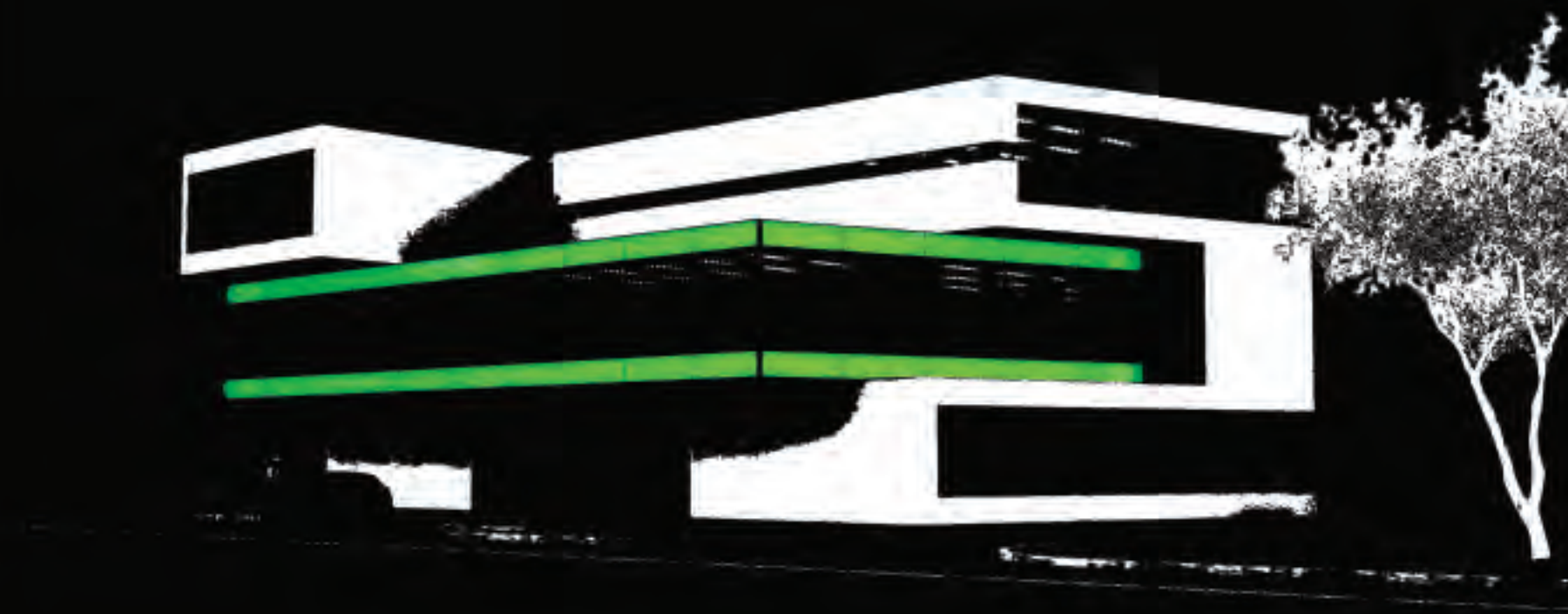
awex
EMERGENCY LIGHTING



designed for safety

20 / 20
11 / 12

part 1

dear customers

Awex – there's no other sign to light like that

The Awex Company was founded in 2002 with two thoughts in mind – to provide quality products and ensure Customers satisfaction. For over 8 years we have grown and managed to become Leader in modern emergency lighting. We do our best to meet all needs of our industry and mostly Clients by developing products, proceeding innovative projects and implementing the newest technologies. In order to satisfy our present and future Clients we have introduced the quality management system according to EN ISO 9001:2000 certificated by TÜV NORD that guarantees the highest quality of design, production, assembly, and service of emergency lighting installations.

Customer satisfaction is our superior value. Our efforts and forceful development are noticed and awarded by many of business prizes including „The Leader of Export" and „The Gazelles of Business" for the most dynamic company on domestic market.

We invite you to establish trade relations based on high quality products, prompt supplies and competitive prices.

Professional staff

Highest qualifications and continuously raised knowledge of our engineers, strong ability to design modern and multi-functional products guarantees development of our products.
Effective management contributes to create strong and trustful cooperation.

Investments

We are determined to invest our time and assets to provide brand new and efficient technologies. Latest projects aim at technological innovation resulting in designing and developing of an extensive array of led lighting products with variety of applications.

Scientific research

Awex is proceeding many scientific research projects to ensure our products to be up to date.

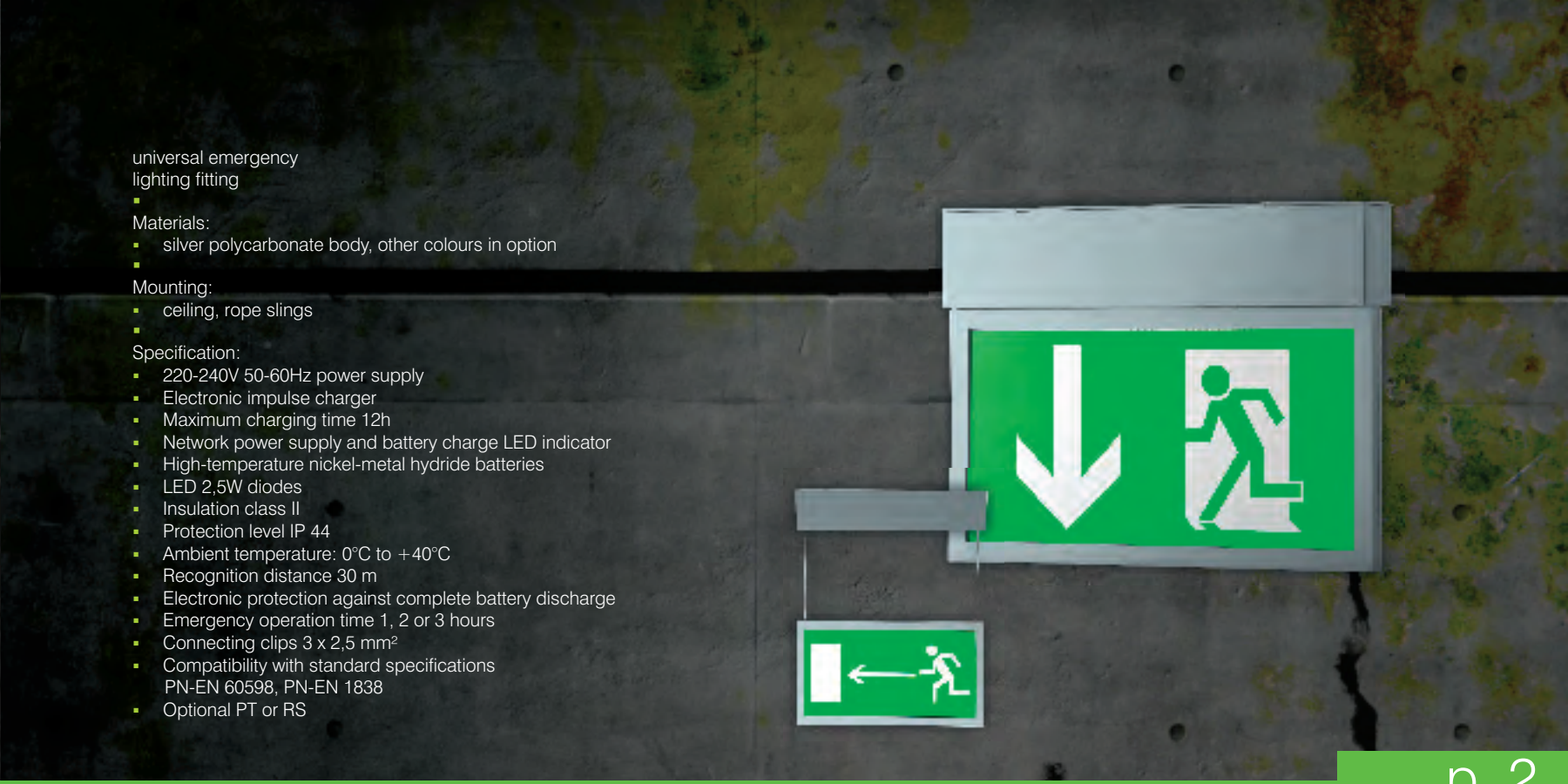
Environment

By using environment friendly technologies, designing products meeting EU rules we help to protect our environment. We are determined to provide energy saving emergency lighting products, using the latest LED technology to maximize both: efficiency and safety.

contents

infinity a

redesigned version



universal emergency
lighting fitting

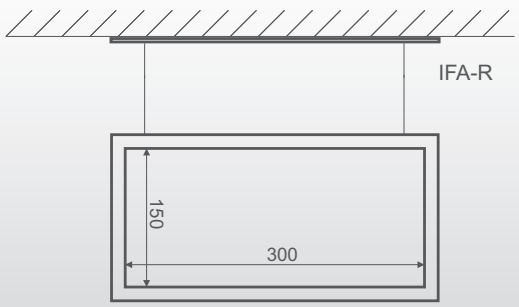
Materials:
- silver polycarbonate body, other colours in option

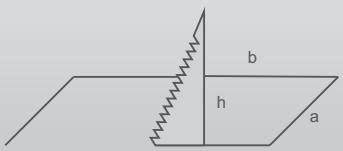
Mounting:
- ceiling, rope slings

Specification:
- 220-240V 50-60Hz power supply
- Electronic impulse charger
- Maximum charging time 12h
- Network power supply and battery charge LED indicator
- High-temperature nickel-metal hydride batteries
- LED 2,5W diodes
- Insulation class II
- Protection level IP 44
- Ambient temperature: 0°C to +40°C
- Recognition distance 30 m
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional PT or RS

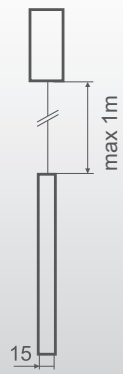
220-240V 50-60Hz | IP 44 | LED

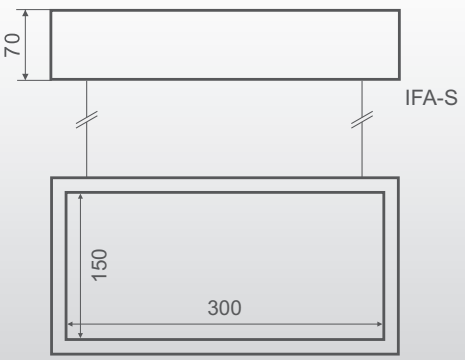
Legend:
SE - non maintained (dark)
SA - maintained (light)
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
IFA - fitting infinity in ceiling version

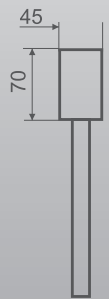


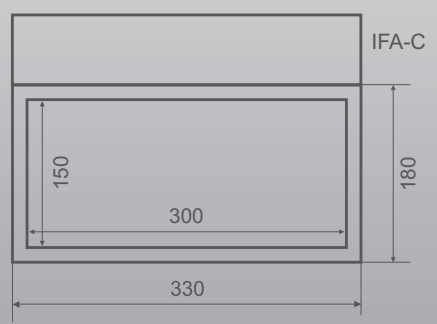


Dimensions of montage:
- hole (a x b) - 60 x 335,
- distance beatween ceiling and suspended ceiling - 150









STANDARD
Configuration of fitting

type	time [h]			work		option	
IFAC	1	2	3	SE	SA	PT	RS
IFAS	1	2	3	SE	SA	PT	RS
IFAR	1	2	3	SE	SA	PT	RS

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest
IFAC	1	2	3	SE	SA	AT
IFAS	1	2	3	SE	SA	AT
IFAR	1	2	3	SE	SA	AT

CENTRAL BATTERY
Configuration of fitting

type	central bat.
IFAC	CB
IFAS	CB
IFAR	CB

LIGHT SOURCE
Characteristic

type	power [W]
LED	2,5

infinity b

redesigned version

universal emergency
lighting fitting

Materials:
- silver polycarbonate body, other colours in option

Mounting:
- wall or dry-wall under plastering

Specification:
- 220-240V 50-60Hz power supply
- Electronic impulse charger
- Maximum charging time 12h
- Network power supply and battery charge LED indicator
- High-temperature nickel-metal hydride batteries
- LED 2,5 W diodes
- Insulation class II
- Protection level IP 44
- Ambient temperature: 0°C to +40°C
- Recognition distance 30 m
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional PT or RS

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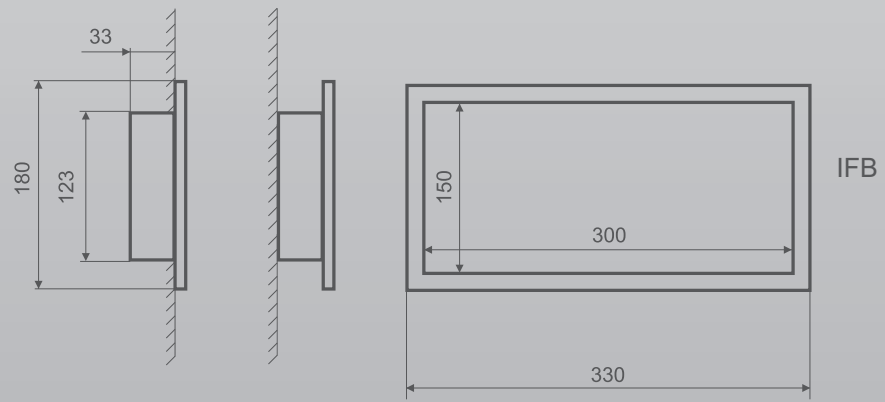
Legend:
SE - non maintained (dark)
SA - maintained (light)
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
IFB - fitting infinity in wall version



STANDARD
Configuration of fitting

type	time [h]			work		option	
IFB	1	2	3	SE	SA	PT	RS

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest
IFB	1	2	3	SE	SA	AT

CENTRAL BATTERY
Configuration of fitting

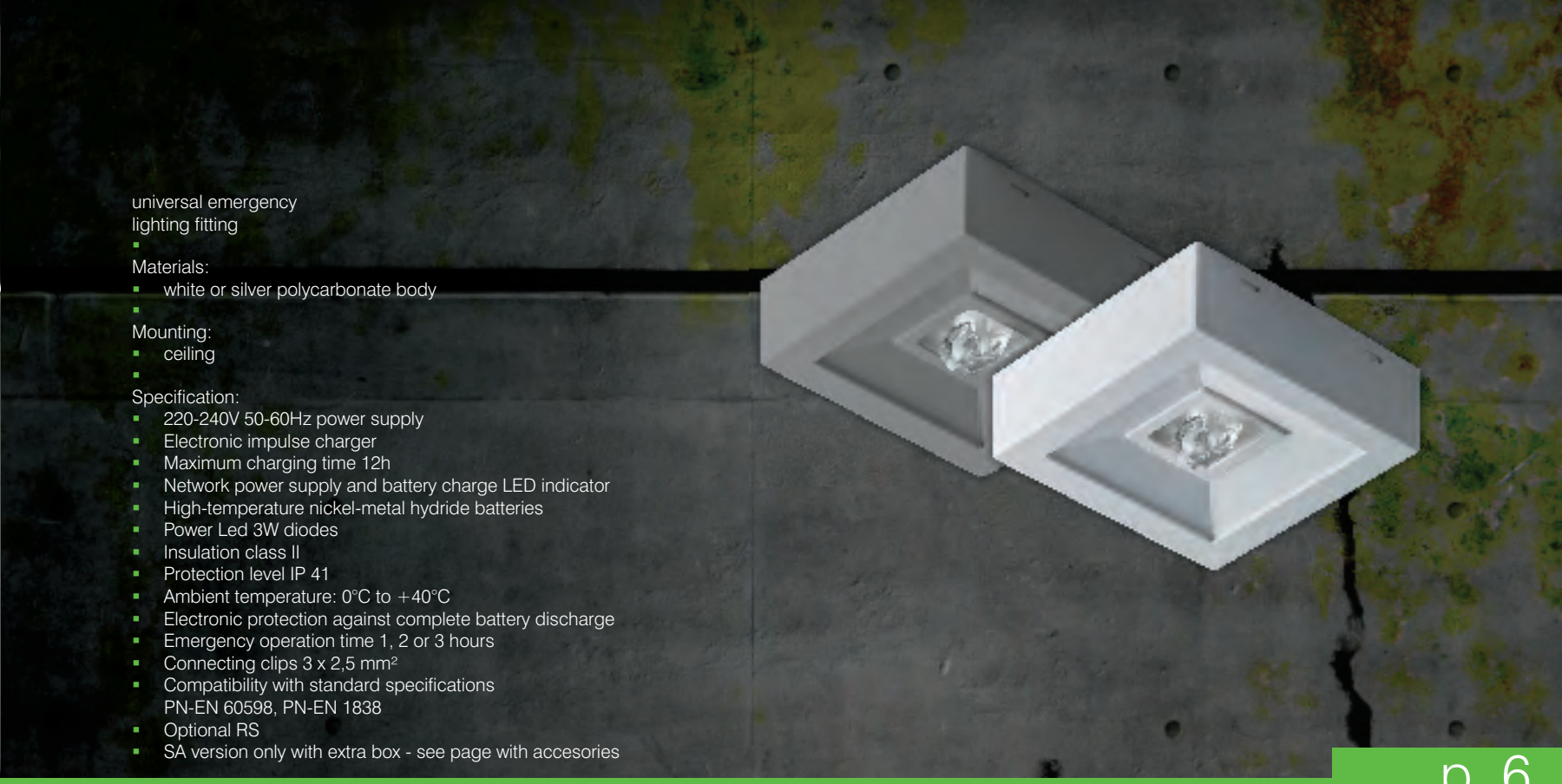
type	central bat.
IFB	CB

LIGHT SOURCE
Characteristic

type	power [W]
LED	2,5

lovato n

redesigned version



universal emergency
lighting fitting

Materials:
- white or silver polycarbonate body

Mounting:
- ceiling

Specification:
- 220-240V 50-60Hz power supply
- Electronic impulse charger
- Maximum charging time 12h
- Network power supply and battery charge LED indicator
- High-temperature nickel-metal hydride batteries
- Power Led 3W diodes
- Insulation class II
- Protection level IP 41
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional RS
- SA version only with extra box - see page with accesories

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STANDARD
Configuration of fitting

type	time [h]			work		option
LVNO	1	2	3	SE	SA	RS
LVNC	1	2	3	SE	SA	RS

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest
LVNO	1	2	3	SE	SA	AT
LVNC	1	2	3	SE	SA	AT

CENTRAL BATTERY
Configuration of fitting

type	central bat.
LVNO	CB
LVNC	CB

LIGHT SOURCE
Characteristic

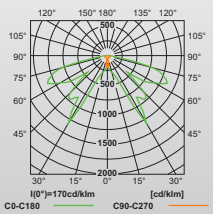
type	power [W]
LED	3

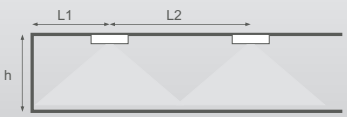
220-240V 50-60Hz | IP 41 | LED

height	L1	L2
meters	0,5lx	0,5lx
2,5	8	19
3	10	22
3,5	10	24
4	11	25
4,5	11	27
5	12	28
6	12	29
7	10	30
8	8	29

height	L1	L2
meters	1lx	1lx
2,5	7,5	16,5
3	8	18
3,5	8	19
4	8,5	20,5
4,5	8,5	21
5	8	20
6	7	20
7	7	15
8	7	10

Escape route center



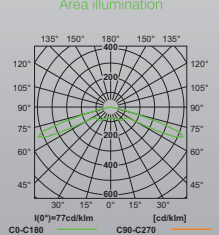


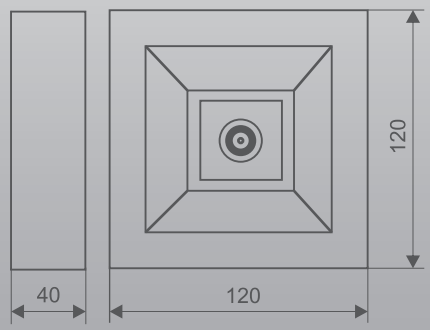
Legend:
SE - non maintained (dark)
SA - maintained (light)
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
LVNO - fitting Lovato n with optics for area
LVNC - fitting Lovato n with optics for escape route
L1 - mounting distance from wall
L2 - distance between fittings

height	L1	L2
meters	0,5lx	0,5lx
2,5	5,5	12,5
3	5	13,5
3,5	4	14,5
4	3	15,5
4,5	2,5	16
5	2,5	15
6	2	14,5
7	2	13
8	2	12

height	L1	L2
meters	1lx	1lx
2,5	2,5	11,5
3	2,5	11
3,5	2,5	10,5
4	2,5	10
4,5	2	10,5
5	2	10
6	2	8,5
7	2	7
8	2	4,5

Area illumination





lovato p

redesigned version

universal emergency
lighting fitting

Materials:
- white polycarbonate body

Mounting:
- dry-wall or under plastering

Specification:
- 220-240V 50-60Hz power supply
- Electronic impulse charger
- Maximum charging time 12h
- Network power supply and battery charge LED indicator
- High-temperature nickel-metal hydride batteries
- Power LED 3W diodes
- Insulation class II
- Protection level IP 20
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional RS

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STANDARD
Configuration of fitting

type	time [h]			work		option
LVPO	1	2	3	SE	SA	RS
LVPC	1	2	3	SE	SA	RS

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest
LVPO	1	2	3	SE	SA	AT
LVPC	1	2	3	SE	SA	AT

CENTRAL BATTERY
Configuration of fitting

type	central bat.
LVPO	CB
LVPC	CB

LIGHT SOURCE
Characteristic

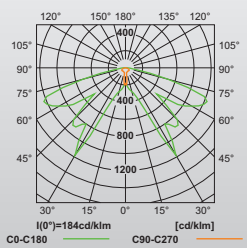
type	power [W]
LED	3

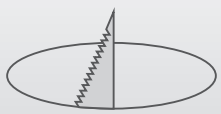
220-240V 50-60Hz | IP 20 | LED

height	L1	L2
meters	0,5lx	0,5lx
2,5	8	18
3	9	21
3,5	10	23
4	11	25
4,5	12	27
5	12	28
6	12	29
7	12	30
8	11	30

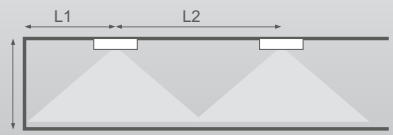
height	L1	L2
meters	1lx	1lx
2,5	7,5	16,5
3	8	18
3,5	8	20
4	8,5	21,5
4,5	8,5	22
5	8,5	22
6	7,5	22
7	7,5	18
8	7,5	13

Escape route center





Dimension of montage
- hole Ø 82mm
- distance between celling and suspended celling 150 mm

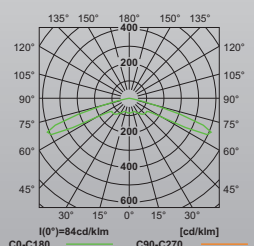


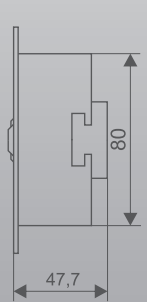
Legend:
SE - non maintained (dark)
SA - maintained (light)
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
LVPO - fitting Lovato p with optics for area
LVPC - fitting Lovato p with optics for escape route
L1 - mounting distance from wall
L2 - distance between fittings

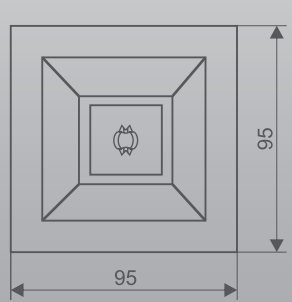
height	L1	L2
meters	0,5lx	0,5lx
2,5	5,5	12,5
3	5	13,5
3,5	4,5	14,5
4	4	15,5
4,5	3,5	16,5
5	2,5	16
6	2	15
7	2	14
8	2	13

height	L1	L2
meters	1lx	1lx
2,5	3	11,5
3	2,5	11
3,5	2,5	11
4	2,5	11
4,5	2	11
5	2	10
6	2	9
7	2	8
8	2	6

Area illumination







led eye

redesigned version

universal, recessed ceiling-mounted
emergency lighting fitting

Materials:
- stainless steel base, other colors in option

Mounting:
- dry-wall or under plastering

Specification:
- 220-240V 50-60Hz power supply
- Electronic impulse charger
- Maximum charging time 12h
- Network power supply and battery charge LED indicator
- High-temperature nickel-metal hydride batteries
- Power LED 3 x 1 W diodes
- Insulation class I
- Protection level IP20
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time1, 2 or 3 hours
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional RS

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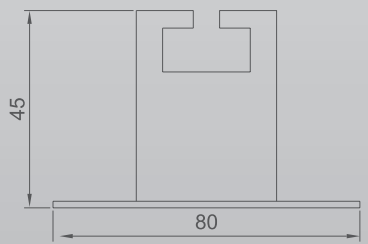
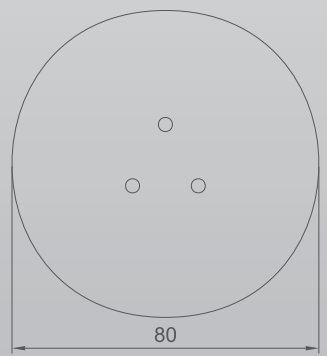
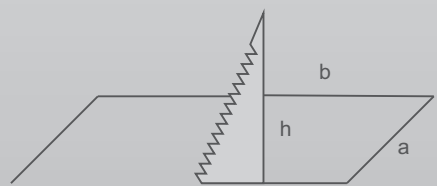
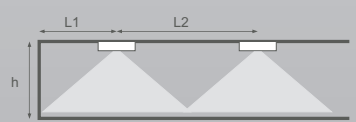
Legend:
SE - non-maintained (dark)
SA - maintained (light)
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
EY - led eye fitting
L1 - mounting distance from wall
L2,L3 - distance between fittings







Dimensions of montage
- hole (a x b) - 33 x 66 mm
- distance between celling and suspended celling 150 mm



STANDARD
Configuration of fitting

type	time [h]			work		option	
EY	1	2	3	SE	SA	PT	RS

CENTRAL BATTERY
Configuration of fitting

type	central bat.
EY	CB

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest
EY	1	2	3	SE	SA	AT

LIGHT SOURCE
Characteristic

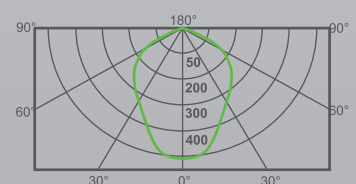
power [W]	cup
LED	3

Escape route center

height	L1	L2
meters	1lx	1lx
2,5	4	9
3	3,8	8,8
3,5	3,6	8,6
4	3,5	8,5
4,5	3,4	8,4
5	3,3	8,3
6	3,2	8,2
7	3,1	8,1
8	3	8

Area illumination

height	L1	L2
meters	1lx	1lx
2,5	4	8
3	4	8
3,5	4	10
4	4	14
4,5	4,2	14,2
5	4,4	14,4
6	4,6	14,6
7	4,8	14,8
8	5	15



I(0°)=510cd [cd/1000lm]
C-C180


Szatnia
Cloakroom
3

universal, two sided
emergency lighting fitting

Materials:
- natural or black aluminium body, plexi glass

Mounting:
- wall, ceiling or rope sling

Specification:
- 230V 50Hz power supply
- Charge time - 24 hours
- Network power supply and battery charging LED indicator
- High-temperature nickel-cadmium batteries
- LED 1,2W diodes or fluorescent lamp T5 8W
- Insulation class I
- Protection level IP 41
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2, 3 hours
- Recognition distance 30 m
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional PT or RS

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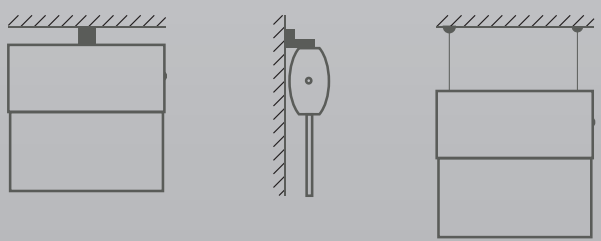
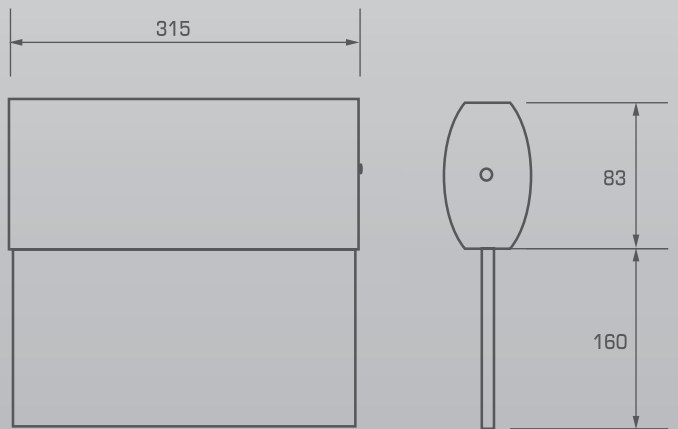
Legend:
SE - non-maintained (dark)
SA - maintained (light)
PT - manual test button
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
TW - twins fitting
TWB - twins black fitting

Mounting type





STANDARD
Configuration of fitting

type	time [h]			work		option	
TW	1	2	3	SE	SA	PT	RS
TWB	1	2	3	SE	SA	PT	RS

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest
TW	1	2	3	SE	SA	AT
TWB	1	2	3	SE	SA	AT

CENTRAL BATTERY
Configuration of fitting

type	central bat.
TW	CB
TWB	CB

LIGHT SOURCE
Characteristic

power [W]	cup
8	G5
LED 1,2	

escape & escape led

universal, two-sided emergency
lighting fitting

Materials:
- steel sheet base painted white, plexi glass

Mounting:
- ceiling

Specification:
- 230V 50Hz power supply
- Charge time - 24 hours
- Network power supply and battery charge LED indicator
- High-temperature nickel-cadmium batteries
- Fluorescent lamp T5 8W or LED 1,2 W diodes
- Insulation class I
- Protection level IP20
- Ambient temperature: 0°C to +40°C
- Recognition distance 30 m
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN1838
- Optional PT or RS

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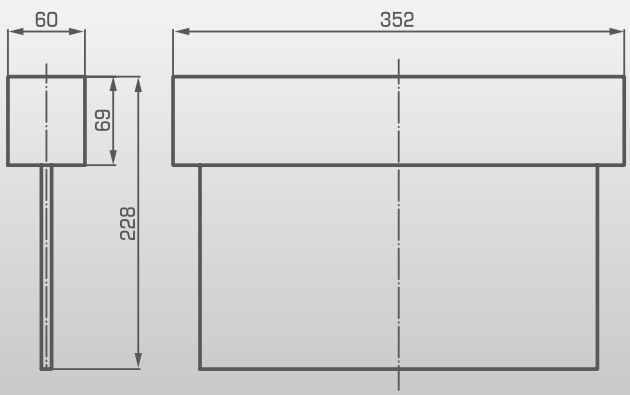
Legend:
SE - non-maintained (dark)
SA - maintained (light)
PT - manual test button
RS - rubic system monitoring
AT - autotest
CB - for central battery evg AC/DC
E - fitting escape
EL - fitting escape led



STANDARD
Configuration of fitting

type	time [h]			work		option	
E	1	2	3	SE	SA	PT	RS
EL	1	2	3	SE	SA	PT	RS

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest
E	1	2	3	SE	SA	AT
EL	1	2	3	SE	SA	AT

CENTRAL BATTERY
Configuration of fitting

type	central bat.
E	CB
EL	CB

LIGHT SOURCE
Characteristic

power [W]	cap
8	G5
LED 1,2	

plexi led

universal, two-sided emergency
lighting fitting

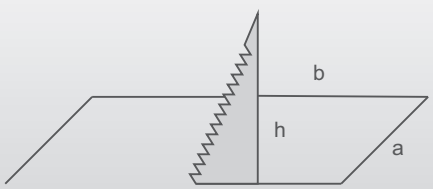
Materials:
- steel sheet base painted silver or white, plexi glass

Mounting:
- dry-wall ceiling

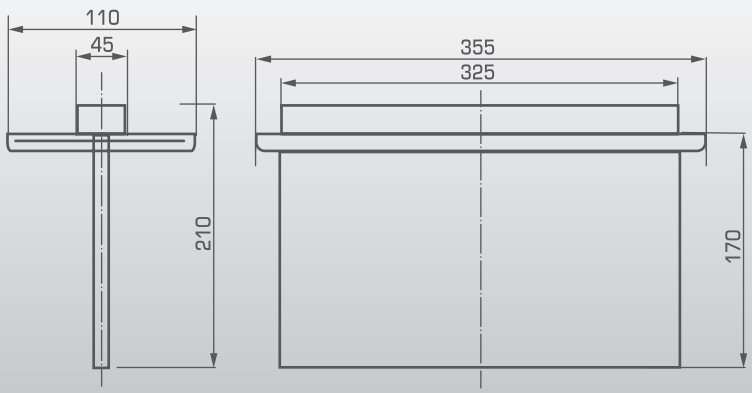
Specification:
- 230V 50Hz power supply
- Charge time - 24 hours
- Electric power network and battery charge LED indicator
- High-temperature nickel-cadmium batteries
- LED 1,2W diodes or fluorescent lamp T5 8W
- Insulation class I
- Protection level IP20
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2, 3 hours
- Recognition distance 30 m
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional PT or RS

p. 14

Legend:
SE - non-maintained (dark)
SA - maintained (light)
PT - manual test button
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
PL - plexi led fitting



Dimensions of montage
- hole (a x b) - 65 x 330 mm
- distance between celling and suspended celling - 110 mm



STANDARD
Configuration of fitting

type	time [h]			work		option	
PL	1	2	3	SE	SA	PT	RS

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest
PL	1	2	3	SE	SA	AT

CENTRAL BATTERY
Configuration of fitting

type	central bat.
PL	CB

LIGHT SOURCE
Characteristic

power [W]	cap
8	G5

power [W]	cap
LED 1,2	

tiger & tiger led

universal,
one-sided emergency fitting

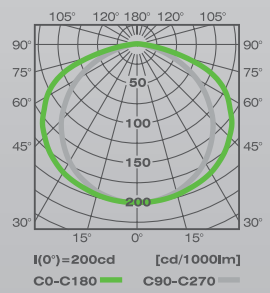
Materials:
- white polycarbonate body
- transparent or opal polycarbonate cover

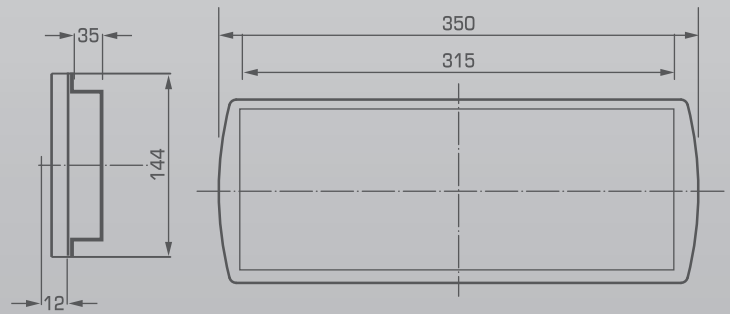
Mounting:
- wall or ceiling or optional dry-wall or under plastering

Specification:
- 230V 50Hz power supply
- Charge time - 24 hours
- Network power supply and battery charge LED indicator
- High-temperature nickel-cadmium batteries
- Fluorescent lamp T5 8W or led 1,2W diodes
- Insulation class II
- Protection level IP22
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Recognition distance 20 m
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional PT or RS
- In option under plastering clips - see page with accessories

p. 16

Legend:
SE - non maintained (dark)
SA - maintained (light)
PT - manual test button
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
TG - fitting tiger
TL - fitting tiger led





STANDARD
Configuration of fitting

type	time [h]			work		option	
TG	1	2	3	SE	SA	PT	RS
TL	1	2	3	SE	SA	PT	RS

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest
TG	1	2	3	SE	SA	AT
TL	1	2	3	SE	SA	AT

CENTRAL BATTERY
Configuration of fitting

type	central bat.
TG	CB
TL	CB

LIGHT SOURCE
Characteristic

power [W]	cap
8	G5
LED 1,2	

tiger p & tiger p led

universal, two-sided emergency lighting fitting

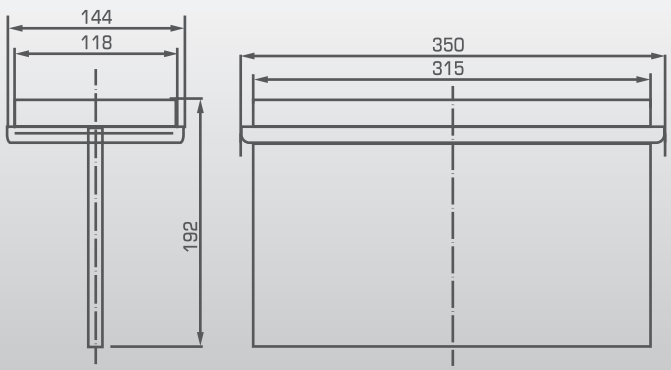
Materials:
- white polycarbonate body
- transparent polycarbonate cover, plexi glass

Mounting:
- ceiling, dry-wall or under plastering

Specification:
- 230V 50Hz power supply
- Maximum charging time 24 hours
- Network power supply and battery charge LED indicator
- High-temperature nickiel-cadmium batteries
- Insulation class II
- Protection level IP 22
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Recognition distance 30 m
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional RS
- In option under plastering clips - see page with accessories

p. 17

Legend:
SE - non-maintained (dark)
SA - maintained (light)
PT - manual test button
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
TP - tiger p fitting
TPL - tiger p led fitting



STANDARD
Configuration of fitting

type	time [h]			work		option	
TP	1	2	3	SE	SA	PT	RS
TPL	1	2	3	SE	SA	PT	RS

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest
TP	1	2	3	SE	SA	AT
TPL	1	2	3	SE	SA	AT

CENTRAL BATTERY
Configuration of fitting

type	central bat.
TP	CB
TPL	CB

LIGHT SOURCE
Characteristic

power [W]	cap
8	G5
LED 1,2	

tiger ds & tiger ds led

universal, two-sided emergency lighting fitting

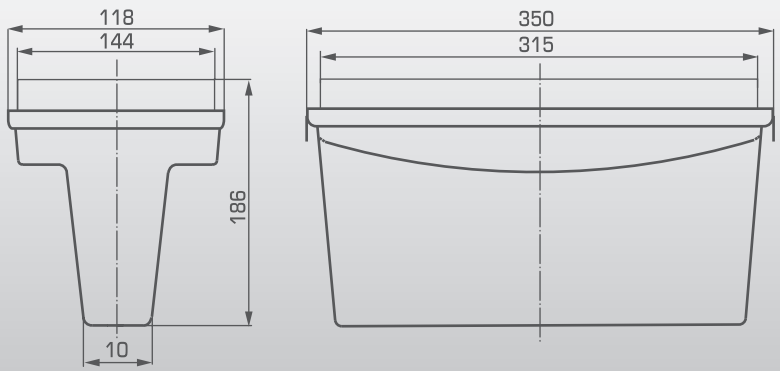
Materials:
- white polycarbonate body
- opal polycarbonate cover
-

Mounting:
- ceiling, dry-wall or under plastering

Specification:
- 230V 50Hz power supply
- Maximum charging time 24 hours
- Network power supply and battery charge LED indicator
- High-temperature nickiel-cadmium batteries
- Insulation class II
- Protection level IP 22
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Recognition distance 20 m
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional RS
- In option under plastering clips - see page with accessories

p. 18

Legend:
SE - non-maintained (dark)
SA - maintained (light)
PT - manual test button
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
TGS - tiger ds fitting
TSL - tiger ds led fitting



STANDARD
Configuration of fitting

type	time [h]			work		option	
TGS	1	2	3	SE	SA	PT	RS
TSL	1	2	3	SE	SA	PT	RS

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest
TGS	1	2	3	SE	SA	AT
TSL	1	2	3	SE	SA	AT

CENTRAL BATTERY
Configuration of fitting

type	central bat.
TGS	CB
TSL	CB

LIGHT SOURCE
Characteristic

power [W]	cap
8	G5
LED 1,2	

helios & helios led (ip42)

universal, one-sided emergency lighting fitting

Materials:
- white polycarbonate body
- transparent or opal polycarbonate cover

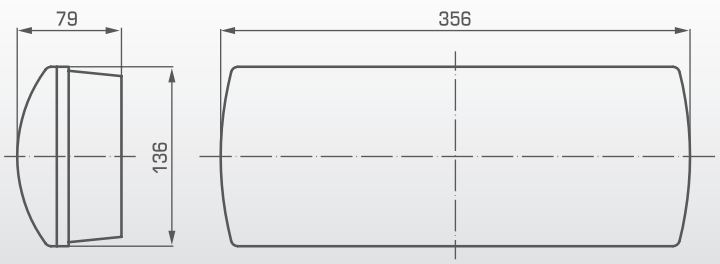
Mounting:
- wall or ceiling

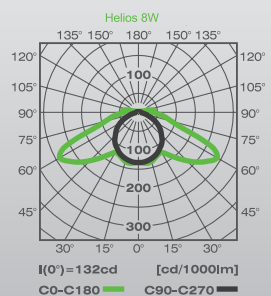
Specification:
- 230V 50Hz power supply
- Charge time - 24 hours
- Network power supply and battery charge LED indicator
- High-temperature nickel-cadmium batteries
- Fluorescent lamp T5 8W, compact lamp 11W, 18W or led 1,2 W diodes
- Insulation class II
- Protection level IP42
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Recognition distance 25 m
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional PT or RS

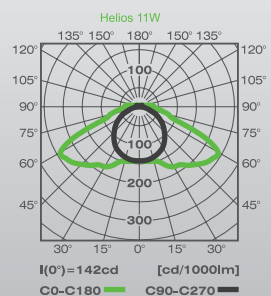
p. 19

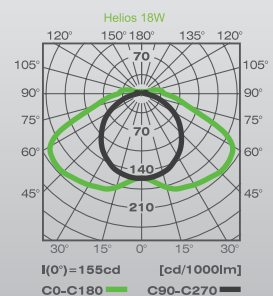
CE | F | 230 V 50 Hz | ⊡ | IP 42 | T5 G5 | TC-SEL 2G7 | TC-L 2G11 | LED | EVG

Legend:
SE - non maintained (dark)
SA - maintained (light)
PT - manual test button
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
HE - fitting helios IP 42
HEL - fitting helios led IP 42









STANDARD
Configuration of fitting

type	time [h]			work		option		power [W]		
HE	1	2	3	SE	SA	PT	RS	8	11	18
HEL	1	2	3	SE	SA	PT	RS	1,2		

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest	power [W]		
HE	1	2	3	SE	SA	AT	8	11	18
HEL	1	2	3	SE	SA	AT	1,2		

CENTRAL BATTERY
Configuration of fitting

type	central bat.	power [W]		
HE	CB	8	11	18
HEL	CB	1,2		

LIGHT SOURCE
Characteristic

power [W]	cup
8	G5
11	2G7

power [W]	cup
18	2G11
LED 1,2	

helios & helios led (ip65)

universal, one-sided emergency lighting fitting

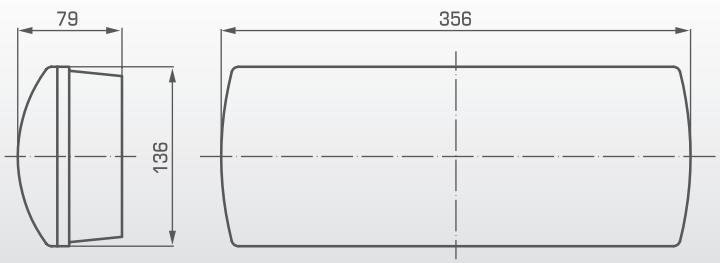
Materials:
- white polycarbonate body
- transparent or opal polycarbonate cover

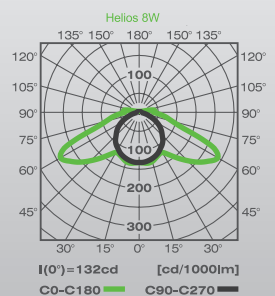
Mounting:
- wall or ceiling

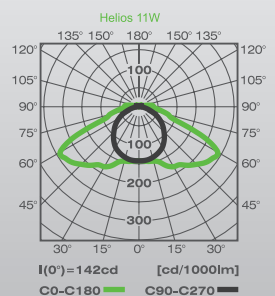
Specification:
- 230V 50Hz power supply
- Charge time - 24 hours
- Network power supply and battery charge LED indicator
- High-temperature nickel-cadmium batteries
- Fluorescent lamp T5 8W, compact lamp 11W, 18W or led 1,2 W diodes
- Insulation class II
- Protection level IP65
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Recognition distance 25 m
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional PT or RS

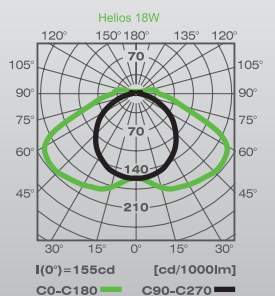
p. 20

Legend:
SE - non maintained (dark)
SA - maintained (light)
PT - manual test button
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
H - fitting helios IP 65
HL - fitting helios led IP 65









STANDARD
Configuration of fitting

type	time [h]			work		option		power [W]		
H	1	2	3	SE	SA	PT	RS	8	11	18
HL	1	2	3	SE	SA	PT	RS	1,2		

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest	power [W]		
H	1	2	3	SE	SA	AT	8	11	18
HL	1	2	3	SE	SA	AT	1,2		

CENTRAL BATTERY
Configuration of fitting

type	central bat.	power [W]		
H	CB	8	11	18
HL	CB	1,2		

LIGHT SOURCE
Characteristic

power [W]	cup
8	G5
11	2G7

power [W]	cup
18	2G11
LED 1,2	

helios p & helios p led

universal, two-sided emergency
lighting fitting

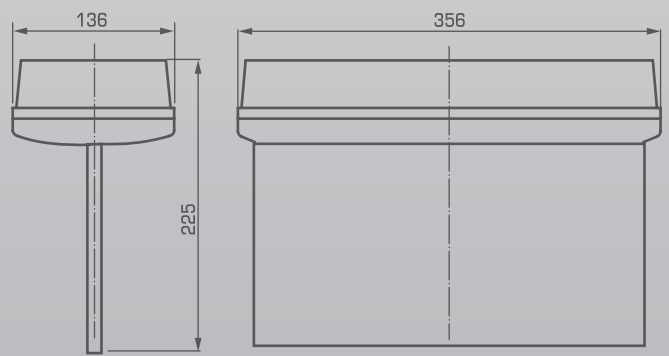
Materials:
- white polycarbonate body
- transparent polycarbonate cover, plexi glass

Mounting:
- ceiling

Specification:
- 230V 50Hz power supply
- Charge time - 24 hours
- Network power supply and battery charge LED indicator
- High-temperature nickel-cadmium batteries
- Fluorescent lamp T5 8W or led 1,2 W diodes
- Insulation class II
- Protection level IP42
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Recognition distance 30 m
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional PT or RS

p. 22

Legend:
SE - non maintained (dark)
SA - maintained (light)
PT - manual test button
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
HP - fitting helios p
HPL - fitting helios p led



STANDARD
Configuration of fitting

type	time [h]			work		option	
HP	1	2	3	SE	SA	PT	RS
HPL	1	2	3	SE	SA	PT	RS

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest
HP	1	2	3	SE	SA	AT
HPL	1	2	3	SE	SA	AT

CENTRAL BATTERY
Configuration of fitting

type	central bat.
HP	CB
HPL	CB

LIGHT SOURCE
Characteristic

power [W]	cap
8	G5
LED 1,2	

helios ds & helios ds led (ip42)

universal, two-sided emergency lighting fitting

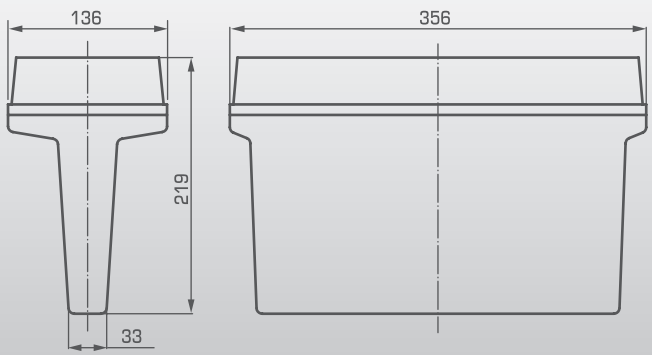
Materials:
- white polycarbonate body
- opal polycarbonate cover

Mounting:
- ceiling

Specification:
- 230V 50Hz power supply
- Charge time - 24 hours
- Network power supply and battery charge LED indicator
- High-temperature nickel-cadmium batteries
- Fluorescent lamp T5 8W, compact lamp 11W or led 1,2W diodes
- Insulation class II
- Protection level IP42
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Recognition distance 25 m
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional PT or RS

p. 23

Legend:
SE - non maintained (dark)
SA - maintained (light)
PT - manual test button
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
HDE - fitting helios IP 42
HDEL - fitting helios led IP 42



STANDARD
Configuration of fitting

type	time [h]			work		option		power [W]	
HDE	1	2	3	SE	SA	PT	RS	8	11
HDEL	1	2	3	SE	SA	PT	RS	1,2	

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest	power [W]	
HDE	1	2	3	SE	SA	AT	8	11
HDEL	1	2	3	SE	SA	AT	1,2	

CENTRAL BATTERY
Configuration of fitting

type	central bat.	power [W]	
HDE	CB	8	11
HDEL	CB	1,2	

LIGHT SOURCE
Characteristic

power [W]	cup
8	G5
11	2G7
LED 1,2	

helios ds & helios ds led (ip65)

universal, two-sided emergency lighting fitting

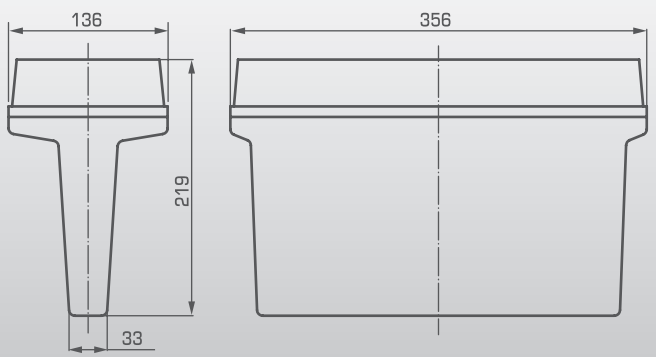
Materials:
- white polycarbonate body
- opal polycarbonate cover

Mounting:
- ceiling

Specification:
- 230V 50Hz power supply
- Charge time - 24 hours
- Network power supply and battery charge LED indicator
- High-temperature nickel-cadmium batteries
- Fluorescent lamp T5 8W, compact lamp 11W or led 1,2 W diodes
- Insulation class II
- Protection level IP65
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Recognition distance 25 m
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional PT or RS

p. 24

Legend:
SE - non maintained (dark)
SA - maintained (light)
PT - manual test button
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
HD - fitting helios IP 65
HDL - fitting helios led IP 65



STANDARD
Configuration of fitting

type	time [h]			work		option		power [W]	
HD	1	2	3	SE	SA	PT	RS	8	11
HDL	1	2	3	SE	SA	PT	RS	1,2	

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest	power [W]	
HD	1	2	3	SE	SA	AT	8	11
HDL	1	2	3	SE	SA	AT	1,2	

CENTRAL BATTERY
Configuration of fitting

type	central bat.	power [W]	
HD	CB	8	11
HDL	CB	1,2	

LIGHT SOURCE
Characteristic

power [W]	cup
8	G5
11	2G7
LED 1,2	

helios power led

universal, one-sided emergency lighting fitting for high altitiudes

Materials:
- white polycarbonate body
- transparent polycarbonate cover

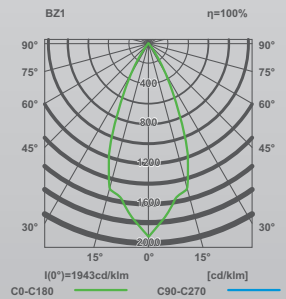
Mounting:
- ceiling

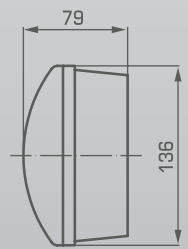
Specification:
- 220-240 V 50-60Hz power supply
- Electronic impulse charger
- Charging time 12h
- Network power supply and battery charge LED indicator
- High-temperature nickel-cadmium batteries
- Power LED 3 x 1 W diodes
- Insulation class II
- Protection level IP 65 or 42 (depends on the model)
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional PT or RS

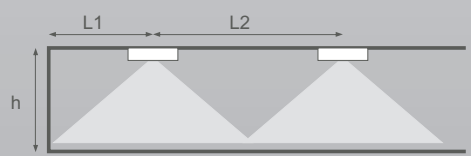
p. 26

CE | F | 220-240V 50-60Hz | IP42 | IP65 | LED | EVG

Legend:
SE - non maintained (dark)
SA - maintained (light)
PT - manual test button
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
HW - fitting helios power led IP 65
HWE - fitting helios power led IP 42
L1 - mounting distance from wall
L2 - distance between fittings







STANDARD
Configuration of fitting

type	time [h]			work		option	
HW	1	2	3	SE	SA	PT	RS
HWE	1	2	3	SE	SA	PT	RS

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest
HW	1	2	3	SE	SA	AT
HWE	1	2	3	SE	SA	AT

CENTRAL BATTERY
Configuration of fitting

type	central bat.
HW	CB
HWE	CB

LIGHT SOURCE
Characteristic

type	power [W]
LED	3

height	L1	L2
meters	1lx	1lx
8	4,5	8,5
8,5	4,5	8,5
9	4,5	9
9,5	4,5	9
10	4,5	9,5
10,5	4,5	9,5
11	4,5	9,5
11,5	4,5	9,5
12	4,5	9,5

emx

universal, one-sided emergency lighting fitting

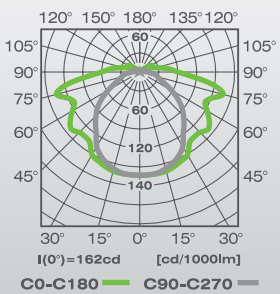
Materials:
- white polycarbonate body
- transparent polycarbonate cover

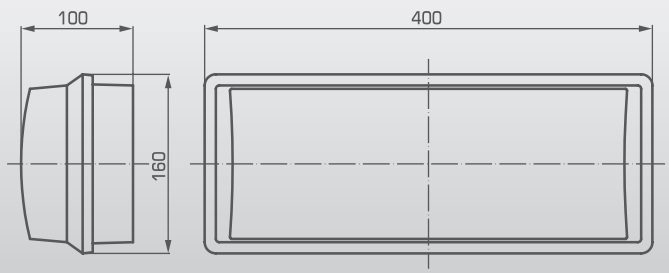
Mounting:
- wall or ceiling

Specification:
- 230V 50Hz power supply
- Charge time - 24 hours
- Electric power network and battery charge LED indicator
- High-temperature nickel-cadmium batteries
- Fluorescent lamp 2 x 8W or compact lamp 18W, 24W, 36W
- Insulation class I
- Protection level IP65
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Recognition distance 25 m
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional PT or RS

p. 27

Legend:
SE - non-maintained (dark)
SA - maintained (light)
PT - manual test button
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
EM - emx fitting





STANDARD
Configuration of fitting

type	time [h]			work		option		power [W]			
EM	1	2	3	SE	SA	PT	RS	2x8	18	24	36

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest	power [W]			
EM	1	2	3	SE	SA	AT	2x8	18	24	36

CENTRAL BATTERY
Configuration of fitting

type	central bat.	power [W]			
EM	CB	2x8	18	24	36

LIGHT SOURCE
Characteristic

power [W]	cup
2x8	G5
18	2G11

power [W]	cup
24	2G11
36	2G10

panorama

universal, one-sided emergency lighting fitting

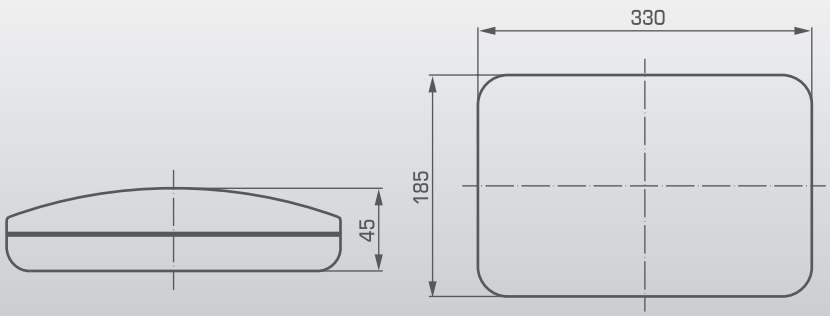
Materials:
- white plastic body
- white polycarbonate cover

Mounting:
- wall or ceiling

Specification:
- 230V 50Hz power supply
- Charge time - 24 hours
- Electric power network and battery charge LED indicator
- High-temperature nickel-cadmium batteries
- Fluorescent lamp T5 8W or compact lamp 11W
- Insulation class I
- Protection level IP54
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Recognition distance 30 m
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional PT or RS

p. 28

Legend:
SE - non-maintained (dark)
SA - maintained (light)
PT - manual test button
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
P - panorama fitting



STANDARD
Configuration of fitting

type	time [h]			work		option		power [W]	
P	1	2	3	SE	SA	PT	RS	8	11

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest	power [W]	
P	1	2	3	SE	SA	AT	8	11

CENTRAL BATTERY
Configuration of fitting

type	central bat.
P	CB

LIGHT SOURCE
Characteristic

power [W]	cup
8	G5
11	2G7

skw & skw led

universal one sided emergency
lighting fitting

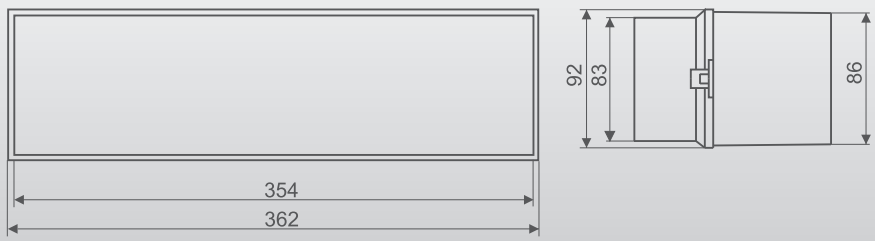
Materials:
- white plastic body, opal plastic cover

Mounting:
- wall

Specification:
- 230V 50Hz power supply
- Charge time - 24 hours
- Network power supply and battery charge LED indicator
- High-temperature nickel-cadmium batteries
- Fluorescent lamp T5 8W or LED 1,2W diodes
- Insulation class II
- Protection level IP 54
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Recognition distance 14m
- Optional PT or RS

p. 29

Legend:
SE - non maintained (dark)
SA - maintained (light)
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
SK - fitting skw
SKL - fitting skw LED



STANDARD
Configuration of fitting

type	time [h]			work		option	
SK	1	2	3	SE	SA	PT	RS
SKL	1	2	3	SE	SA	PT	RS

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest
SK	1	2	3	SE	SA	AT
SKL	1	2	3	SE	SA	AT

CENTRAL BATTERY
Configuration of fitting

type	central bat.
SK	CB
SKL	CB

LIGHT SOURCE
Characteristic

power [W]	cup
8	G5
LED 1,2	

skw ds & skw ds led

universal double sided emergency
lighting fitting

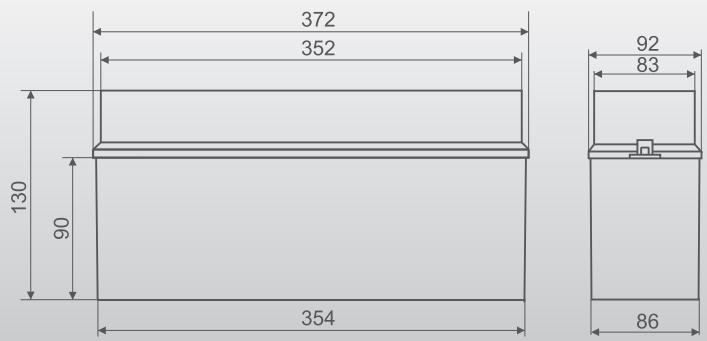
Materials:
- white plastic body, opal plastic cover

Mounting:
- ceiling

Specification:
- 230V 50Hz power supply
- Charge time - 24 hours
- Network power supply and battery charge LED indicator
- High-temperature nickel-cadmium batteries
- Fluorescent lamp T5 8W or LED 1,2W diodes
- Insulation class II
- Protection level IP 54
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Recognition distance 20m
- Optional PT or RS

p. 30

Legend:
SE - non maintained (dark)
SA - maintained (light)
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
SKD - fitting skw ds
SKDL - fitting skw ds LED



STANDARD
Configuration of fitting

type	time [h]			work		option	
SKD	1	2	3	SE	SA	PT	RS
SKDL	1	2	3	SE	SA	PT	RS

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest
SKD	1	2	3	SE	SA	AT
SKDL	1	2	3	SE	SA	AT

CENTRAL BATTERY
Configuration of fitting

type	central bat.
SKD	CB
SKDL	CB

LIGHT SOURCE
Characteristic

power [W]	cup
8	G5
LED 1,2	

viper r & viper s

universal, one-sided emergency lighting fitting

Materials:
- steel sheet base painted silver or white, other colours in options

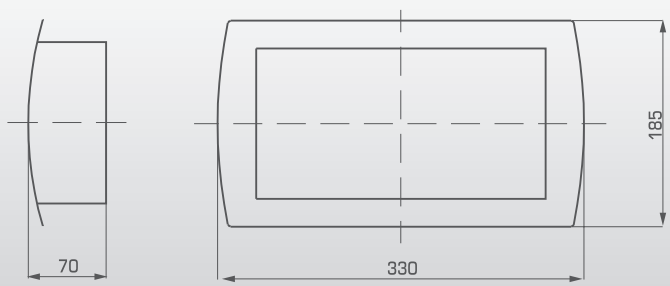
Mounting:
- wall, ceiling, optional dry-wall or under plastering

Specification:
- 230V 50Hz power supply
- Charging time 24 hours
- Network power supply and battery charge LED indicator
- High-temperature nickiel-cadmium batteries
- Power LED 3 x 1 W diodes
- Insulation class I
- Protection level IP 20
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Recognition distance 25m
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional RS

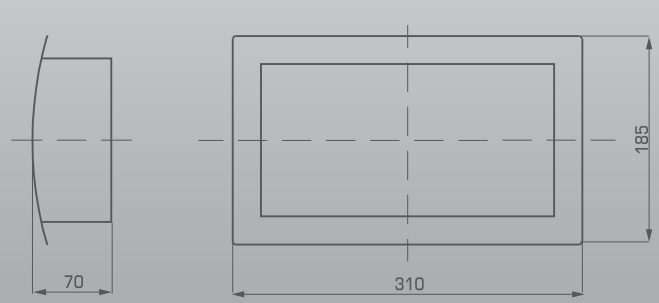
p. 31

Legend:
SE - non maintained (dark)
SA - maintained (light)
PT - manual test button
RS - Rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
VR - fitting viper r
VS - fitting viper s

viper r



viper s



STANDARD
Configuration of fitting

type	time [h]			work		option	
VR	1	2	3	SE	SA	PT	RS
VS	1	2	3	SE	SA	PT	RS

CENTRAL BATTERY
Configuration of fitting

type	central bat.
VR	CB
VS	CB

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest
VR	1	2	3	SE	SA	AT
VS	1	2	3	SE	SA	AT

LIGHT SOURCE
Characteristic

power [W]	cup
LED	3

classic & classic silver

universal, one-sided emergency lighting fitting

Materials:
- steel sheet base painted white or silver, other colours in option

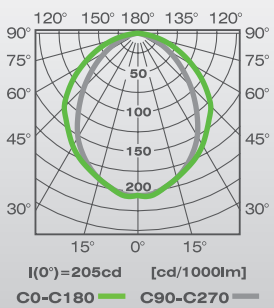
Mounting:
- wall and ceiling

Specification:
- Power supply 230V 50Hz
- Charge time - 24h
- Electric power network and battery charge LED indicator
- High-temperature nickel-cadmium batteries
- Fluorescent lamp T5 8W
- Insulation class I
- Protection level IP40
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Recognition distance 30 m
- Connecting clips 3 x 2,5 mm2
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional PT or RS

p. 32

230 V 50 Hz | IP40 | T5 G5 | EVG

Legend:
SE - non-maintained (dark)
SA - maintained (light)
PT - manual test button
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
C - classic fitting
CS - classic silver fitting



STANDARD
Configuration of fitting

type	time [h]			work		option	
C	1	2	3	SE	SA	PT	RS
CS	1	2	3	SE	SA	PT	RS

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest
C	1	2	3	SE	SA	AT
CS	1	2	3	SE	SA	AT

CENTRAL BATTERY
Configuration of fitting

type	central bat.
C	CB
CS	CB

LIGHT SOURCE
Characteristic

power [W]	cup
8	G5

classic fw

universal, one-sided emergency lighting fitting

Materials:
- steel sheet base painted white or silver

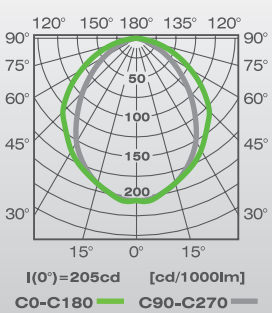
Mounting:
- dry-wall

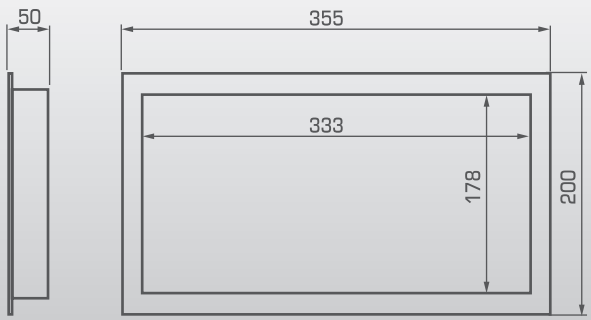
Specification:
- 230V 50Hz power supply
- Charge time - 24 hours
- Electric power network and battery charge LED indicator
- High-temperature nickel-cadmium batteries
- Fluorescent lamp T5 8W
- Insulation class I
- Protection level IP40
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Recognition distance 30 m
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional PT or RS

p. 33

230 V 50 Hz | IP40 | T5 G5 | EVG

Legend:
SE - non-maintained (dark)
SA - maintained (light)
PT - manual test button
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
CW - classic fw fitting





STANDARD
Configuration of fitting

type	time [h]			work		option	
CW	1	2	3	SE	SA	PT	RS

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest
CW	1	2	3	SE	SA	AT

CENTRAL BATTERY
Configuration of fitting

type	central bat.
CW	CB

LIGHT SOURCE
Characteristic

power [W]	cup
8	G5

dublo

universal, two-sided emergency
lighting fitting

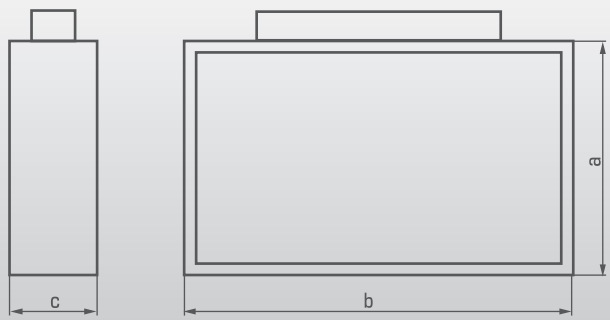
Materials:
- steel sheet base painted white

Mounting:
- wall or ceiling, optional mounting on a rope sling

Specification:
- 230V 50Hz power supply
- Charge time - 24 hours
- Electric power network and battery charge LED indicator
- High-temperature nickel-cadmium batteries
- Fluorescent lamp T5 8W
- Insulation class I
- Protection level IP40
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Recognition distance 30 m
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional PT or RS

p. 34

Legend:
SE - non-maintained (dark)
SA - maintained (light)
PT - manual test button
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
DS - dublo s fitting



DUBLO S [a x b x c]
173 x 322 x 95

STANDARD
Configuration of fitting

type	time [h]			work		option	
DS	1	2	3	SE	SA	PT	RS

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest
DS	1	2	3	SE	SA	AT

CENTRAL BATTERY
Configuration of fitting

type	central bat.
DS	CB

LIGHT SOURCE
Characteristic

power [W]	cup
8	G5

square

universal, one-sided emergency
lighting fitting

Materials:
- white plastic body
- white polycarbonate cover

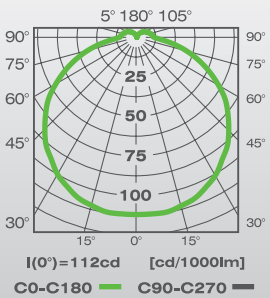
Mounting:
- wall or ceiling

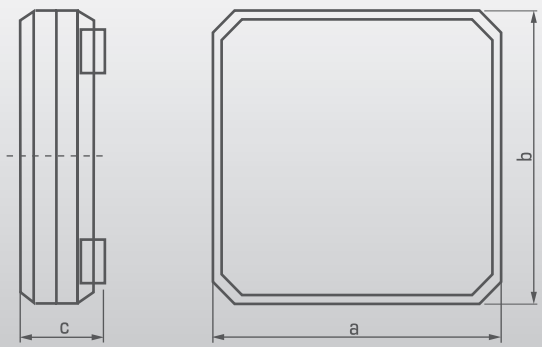
Specification:
- 230V 50Hz power supply
- Charge time - 24 hours
- Electric power network and battery charge LED indicator
- High-temperature nickel-cadmium batteries
- Compact fluorescent lamp 11W, 18W
- Insulation class I
- Protection level IP 65
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional PT or RS

p. 35

230 V 50 Hz | IP 65 | TC-EL 2G7 | TC-EL 2G11 | EVG

Legend:
SE - non-maintained (dark)
SA - maintained (ligh)
PT - manual test button
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
SD - square d fitting





BIG [a x b x c] 300 x 300 x 83

STANDARD
Configuration of fitting

type	time [h]			work		option		power [W]			
SD	1	2	3	SE	SA	PT	RS	11	18	2x11	2x18

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest	power [W]			
SD	1	2	3	SE	SA	AT	11	18	2x11	2x18

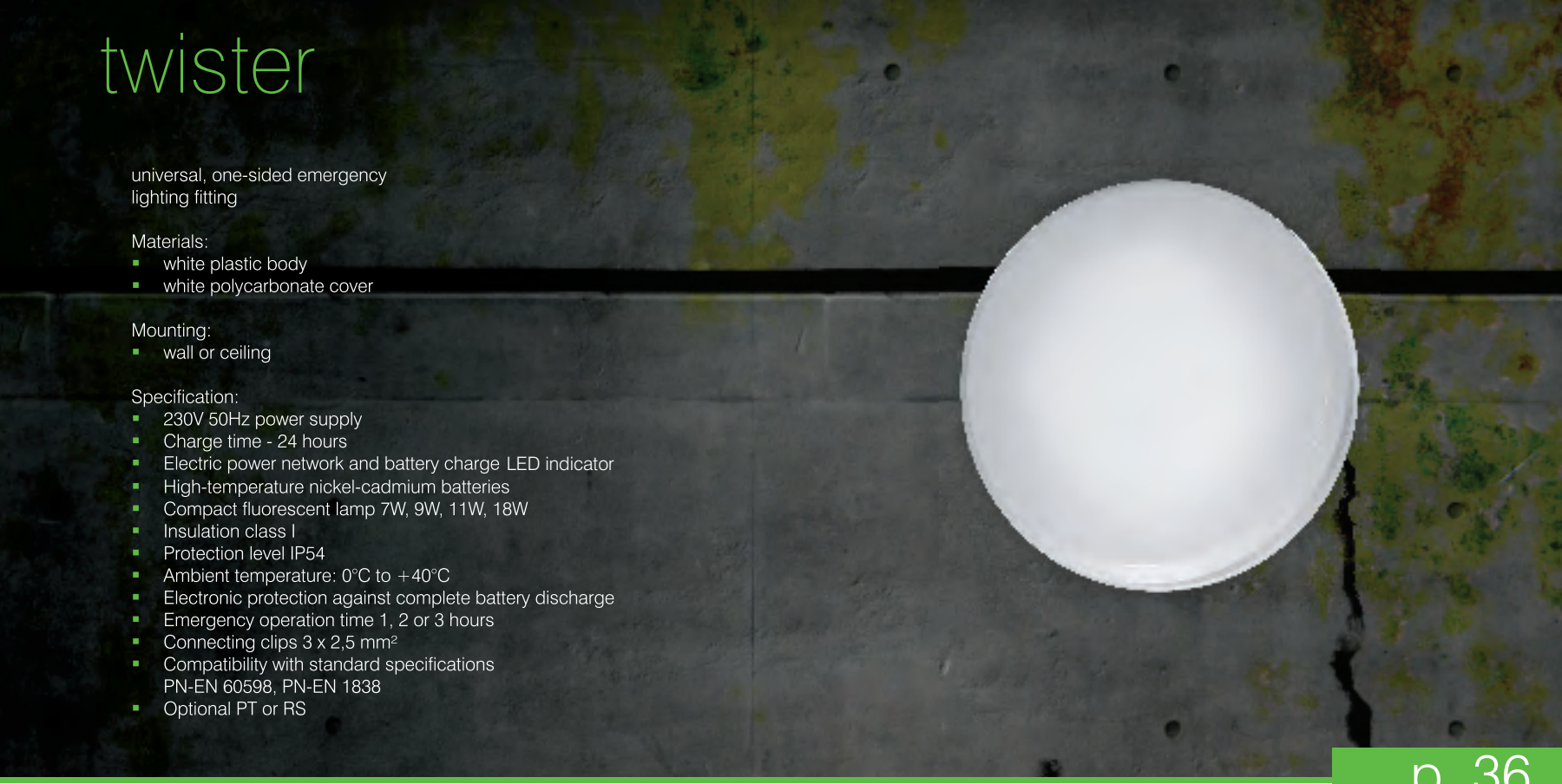
CENTRAL BATTERY
Configuration of fitting

type	central bat.	power [W]			
SD	CB	11	18	2x11	2x18

LIGHT SOURCE
Characteristic

power [W]	cup
11	2G7
18	2G11

twister



universal, one-sided emergency
lighting fitting

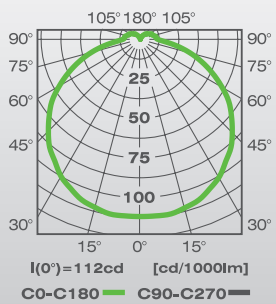
Materials:
- white plastic body
- white polycarbonate cover

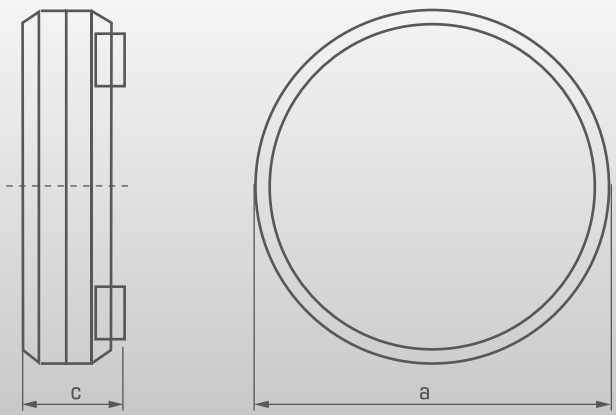
Mounting:
- wall or ceiling

Specification:
- 230V 50Hz power supply
- Charge time - 24 hours
- Electric power network and battery charge LED indicator
- High-temperature nickel-cadmium batteries
- Compact fluorescent lamp 7W, 9W, 11W, 18W
- Insulation class I
- Protection level IP54
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional PT or RS

p. 36

Legend:
SE - non-maintained (dark)
SA - maintained (light)
PT - manual test button
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
TM - twister m fitting
TD - twister d fitting





SMALL [a x c] 260 x 58 **BIG** [a x c] 360 x 83

STANDARD
Configuration of fitting

type	time [h]			work		option		power [W]			
TM	1	2	3	SE	SA	PT	RS	7		9	
TD	1	2	3	SE	SA	PT	RS	11	18	2x11	2x18

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest	power [W]			
TM	1	2	3	SE	SA	AT	7		9	
TD	1	2	3	SE	SA	AT	11	18	2x11	2x18

CENTRAL BATTERY
Configuration of fitting

type	central bat.	power [W]			
TM	CB	7		9	
TD	CB	11	18	2x11	2x18

LIGHT SOURCE
Characteristic

power [W]	cup
7	2G7
9	2G7

power [W]	cup
11	2G7
18	2G11

quadro

universal, four-sided emergency
lighting fitting

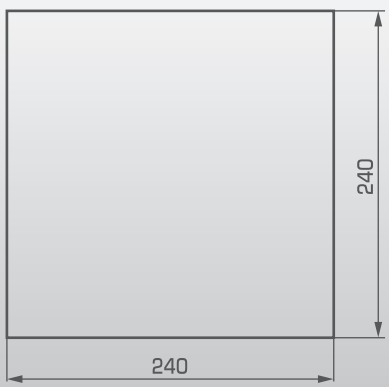
Materials:
- white polycarbonate body

Mounting:
- wall or ceiling, possibility of mounting on a cord sling

Specification:
- 230V 50Hz power supply
- Charge time - 24 hours
- Electric power network and battery charge LED indicator
- High-temperature nickel-cadmium batteries
- Compact fluorescent lamp 11W
- Insulation class I
- Protection level IP41
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Recognition distance 30 m
- Connecting clips 3 x 2,5 mm²
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Optional PT or RS

p. 37

Legend:
SE - non-maintained (dark)
SA - maintained (light)
PT - manual test button
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
Q - quadro fitting



STANDARD
Configuration of fitting

type	time [h]			work		option	
Q	1	2	3	SE	SA	PT	RS

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest
Q	1	2	3	SE	SA	AT

CENTRAL BATTERY
Configuration of fitting

type	central bat.
Q	CB

LIGHT SOURCE
Characteristic

power [W]	cup
11	2G7

ufo

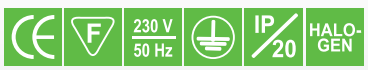
emergency
lighting fitting

Materials:
- steel sheet base painted grey

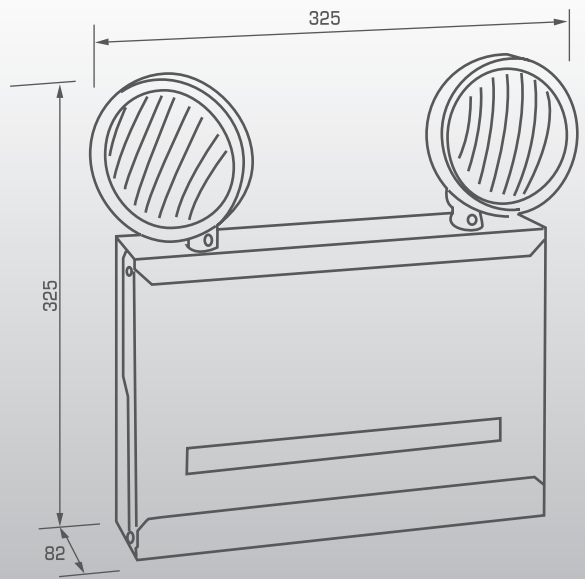
Mounting:
- wall

Specification:
- 230V 50Hz power supply
- Charge time - 24 hours
- Electric power network and battery charge LED indicator
- Gel accumulators
- Halogen bulbs 21W, 55W
- Insolation class I
- Protection level IP20
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Connecting clips 3 x 2,5 mm²

p. 38



Legend:
SE - non-maintained (dark)
U - ufo fitting



STANDARD
Configuration of fitting

type	time [h]		work	power [W]		
Q	1	3	SE	2x21	55	2x55

hermetica

universal, one-sided emergency
lighting fitting

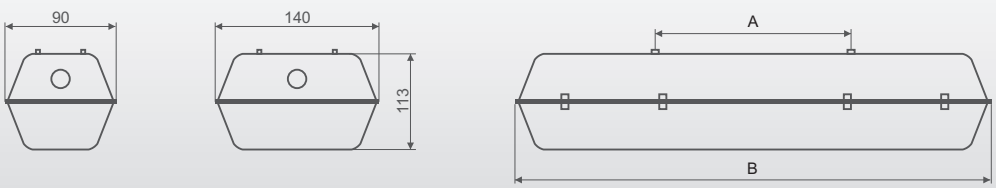
Materials:
- grey polycarbonate body,
- transparent polycarbonate cover

Mounting:
- wall or ceiling

Specification:
- 230V 50Hz power supply
- Charge time - 24 hours
- Electric power network and battery charge LED indicator
- High-temperature nickel-cadmium batteries
- Fluorescent lamp T8 18W, 36W, 58W
- Insulation class I
- Protection level IP65
- Ambient temperature: 0°C to +40°C
- Electronic protection against complete battery discharge
- Emergency operation time 1, 2 or 3 hours
- Compatibility with standard specifications PN-EN 60598, PN-EN 1838
- Connecting clips 3 x 2,5 mm²
- Optional PT or RS

p. 39

Legend:
SE - non-maintained (dark)
SA - maintained (light)
PT - manual test button
RS - rubic monitoring system
AT - autotest
CB - for central battery evg AC/DC
HR - hermetica fitting



hermetica	T8	A	B
1x18 / 2x18	18W	350	670
1x36 / 2x36	36W	700	1280
1x58 / 2x58	58W	900	1580

STANDARD
Configuration of fitting

type	time [h]			work		option		power [W]					
HR	1	2	3	SE	SA	PT	RS	18	2x18	36	2x36	58	2x58

CENTRAL BATTERY
Configuration of fitting

type	central bat.	power [W]					
HR	CB	18	2x18	36	2x36	58	2x58

AUTOTEST
Configuration of fitting

type	time [h]			work		autotest	power [W]					
HR	1	2	3	SE	SA	AT	18	2x18	36	2x36	58	2x58

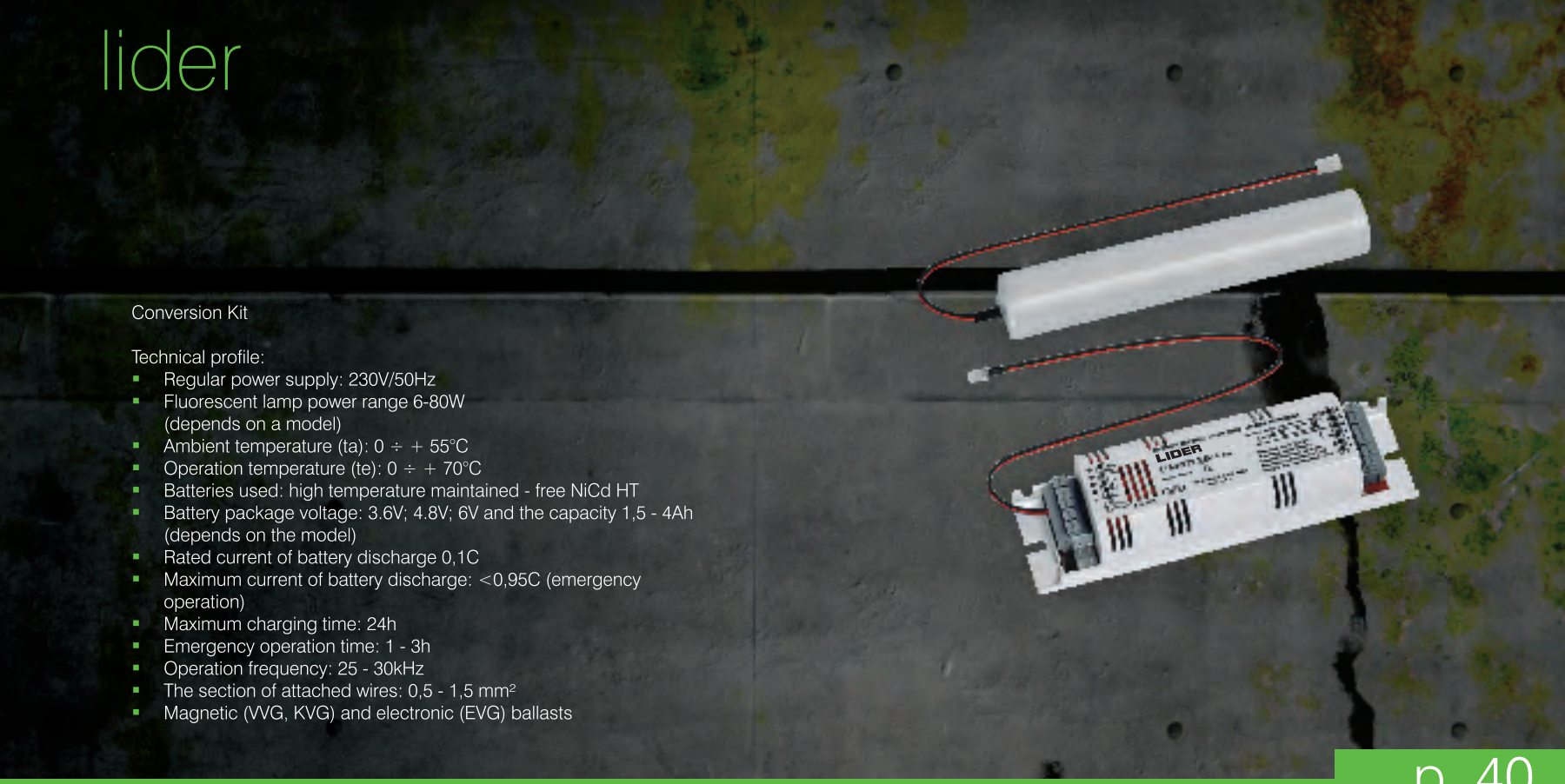
LIGHT SOURCE
Characteristic

power [W]	cup
18	G13

power [W]	cup
36	G13

power [W]	cup
58	G13

lider

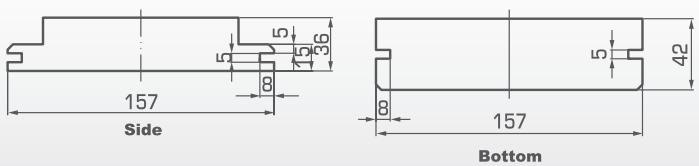


Conversion Kit

Technical profile:
- Regular power supply: 230V/50Hz
- Fluorescent lamp power range 6-80W (depends on a model)
- Ambient temperature (ta): 0 ÷ + 55°C
- Operation temperature (te): 0 ÷ + 70°C
- Batteries used: high temperature maintained - free NiCd HT
- Battery package voltage: 3.6V; 4.8V; 6V and the capacity 1,5 - 4Ah (depends on the model)
- Rated current of battery discharge 0,1C
- Maximum current of battery discharge: <0,95C (emergency operation)
- Maximum charging time: 24h
- Emergency operation time: 1 - 3h
- Operation frequency: 25 - 30kHz
- The section of attached wires: 0,5 - 1,5 mm²
- Magnetic (VVG, KVG) and electronic (EVG) ballasts

p. 40

Characteristics:
- The built-in automatic switching system enables continuous operation of the fluorescent lamps with regular power supply as well as in the emergency mode
- LF lamp soft start: soft start system ensures long lamp life,
- The process of charging and proper battery connection is signalled by a LED while supplying the system with main voltage
- The control of minimum voltage of battery discharge
- Polycarbonate or aluminium body
- Protection level IP 20
- Small dimensions and easy assembly



Conversion kit Lider

code	power	work	battery
L/36/1	6 W - 36 W	1 h	Ni-Cd 3,6 V 1,5 Ah
L/36/2	6 W - 36 W	2 h	Ni-Cd 3,6 V 2,5 Ah
L/36/3	6 W - 36 W	3 h	Ni-Cd 3,6 V 4,0 Ah
L/58/1	6 W - 58 W	1 h	Ni-Cd 4,8 V 1,5 Ah
L/58/2	6 W - 58 W	2 h	Ni-Cd 4,8 V 2,5 Ah
L/58/3	6 W - 58 W	3 h	Ni-Cd 4,8 V 4,0 Ah

Conversion kit Lider works with all types of magnetic ballasts and chosen EVG ballasts.

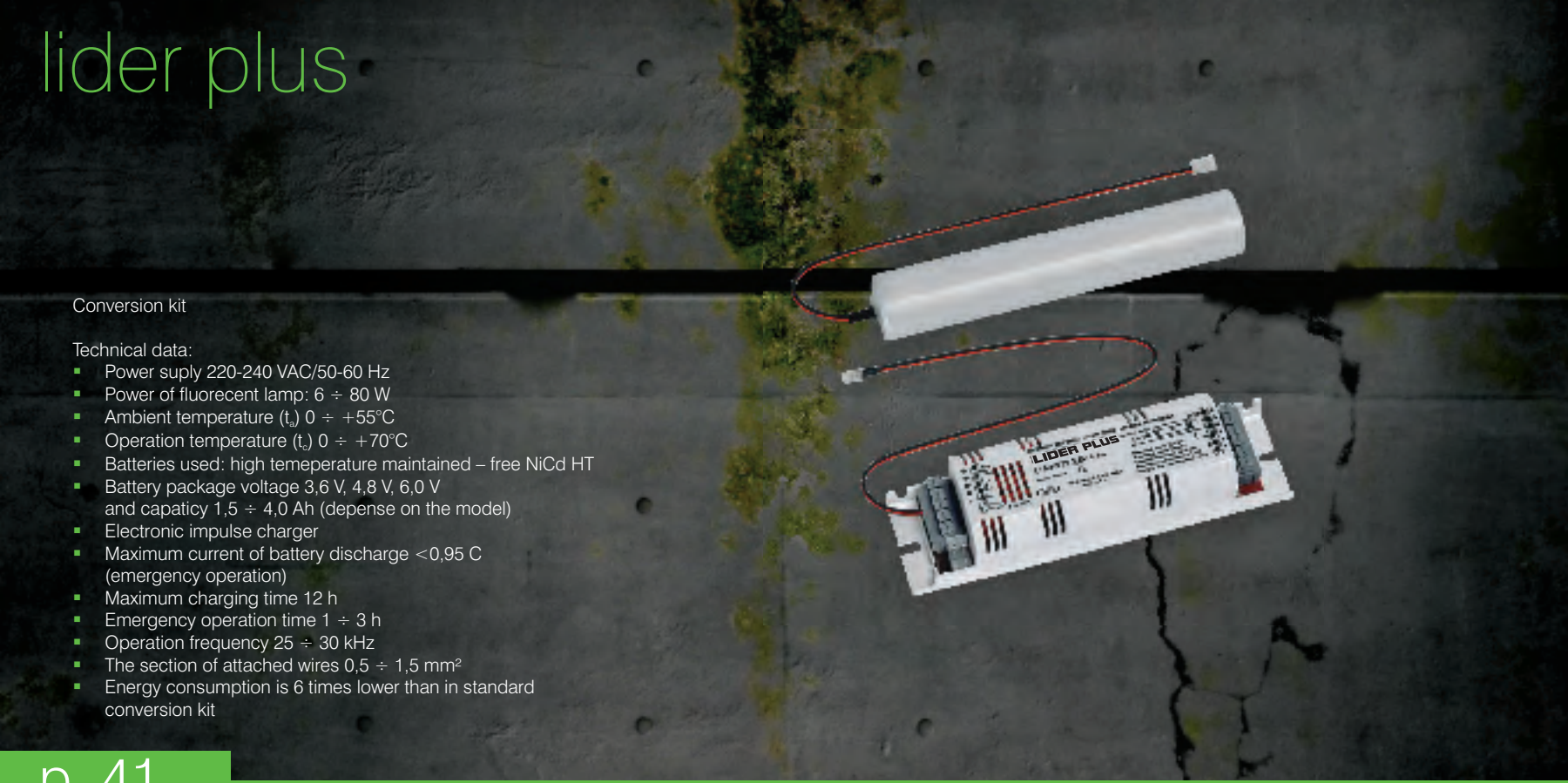
Conversion kit Lider EVG

code	power	work	battery
LE/36/1	6 W - 36 W	1 h	Ni-Cd 3,6 V 1,5 Ah
LE/36/2	6 W - 36 W	2 h	Ni-Cd 3,6 V 2,5 Ah
LE/36/3	6 W - 36 W	3 h	Ni-Cd 3,6 V 4,0 Ah
LE/58/1	6 W - 58 W	1 h	Ni-Cd 4,8 V 1,5 Ah
LE/58/2	6 W - 58 W	2 h	Ni-Cd 4,8 V 2,5 Ah
LE/58/3	6 W - 58 W	3 h	Ni-Cd 4,8 V 4,0 Ah
LE/80/1	6 W - 80 W	1 h	Ni-Cd 6 V 1,5 Ah
LE/80/2	6 W - 80 W	2 h	Ni-Cd 6 V 2,5 Ah
LE/80/3	6 W - 80 W	3 h	Ni-Cd 6 V 4,0 Ah

Conversion kit Lider EVG works with all types of magnetic ballasts and electronic ballasts.

Dimensions of batteries for conversion kit Lider can be found in our catalogue at page 61.

lider plus



Conversion kit

Technical data:
- Power suply 220-240 VAC/50-60 Hz
- Power of fluorecent lamp: 6 ÷ 80 W
- Ambient temperature (t_a) 0 ÷ +55°C
- Operation temperature (t_c) 0 ÷ +70°C
- Batteries used: high temeperature maintained – free NiCd HT
- Battery package voltage 3,6 V, 4,8 V, 6,0 V and capaticy 1,5 ÷ 4,0 Ah (depense on the model)
- Electronic impulse charger
- Maximum current of battery discharge <0,95 C (emergency operation)
- Maximum charging time 12 h
- Emergency operation time 1 ÷ 3 h
- Operation frequency 25 ÷ 30 kHz
- The section of attached wires 0,5 ÷ 1,5 mm²
- Energy consumption is 6 times lower than in standard conversion kit

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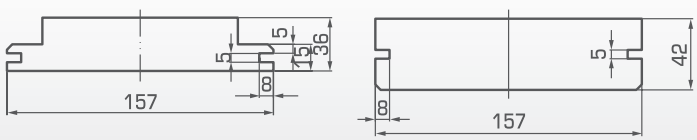
Characteristics:
- The build-in automatic switching system enables continuous operation of the fluorescent lamps with regular power supply as well as in the emergency system
- LP lamp soft start: soft start system ensures long lapm life
- The process of charging and proper battery connections while supplying the system with main voltage 220-240VAC
- The control of minimum voltage of battery discharge
- Cover madre from aluminium of polcarbonate
- Protection lever IP20
- Small dimensions and easy assembly
- Very low energy consumption
- Small weight

Technical characteristic:
- Power of fluorescent lamp 6W ÷ 80W
- Emergency operation time 1,2 or 3 hours
- Type of fluorescent lamp T8, T5 compact lamps 4 pins
- Magnetic ballast (VVG, KVG) and electronic ballast (EVG)



Side **Bottom**

Conversion kit Lider plus

code	power	work	battery
LP/36/1	6 W - 36 W	1 h	Ni-Cd 3,6 V 1,5 Ah
LP/36/2	6 W - 36 W	2 h	Ni-Cd 3,6 V 2,5 Ah
LP/36/3	6 W - 36 W	3 h	Ni-Cd 3,6 V 4,0 Ah
LP/58/1	6 W - 58 W	1 h	Ni-Cd 4,8 V 1,5 Ah
LP/58/2	6 W - 58 W	2 h	Ni-Cd 4,8 V 2,5 Ah
LP/58/3	6 W - 58 W	3 h	Ni-Cd 4,8 V 4,0 Ah

Conversion kit Lider plus works all types of magnetic ballast and chosen EVG ballasts.

Conversion kit Lider EVG plus

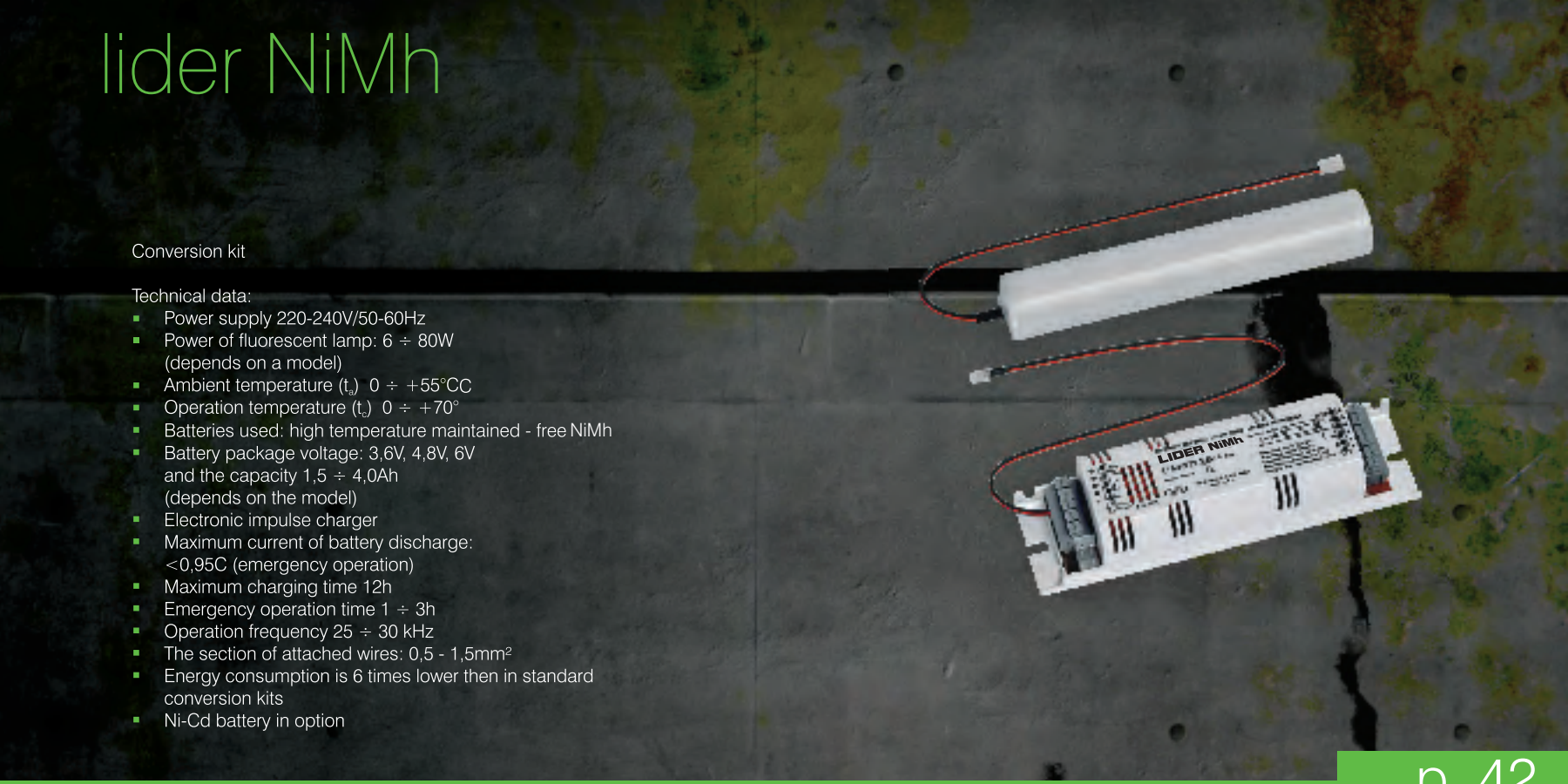
code	power	work	battery
LEP/36/1	6 W - 36 W	1 h	Ni-Cd 3,6 V 1,5 Ah
LEP/36/2	6 W - 36 W	2 h	Ni-Cd 3,6 V 2,5 Ah
LEP/36/3	6 W - 36 W	3 h	Ni-Cd 3,6 V 4,0 Ah
LEP/58/1	6 W - 58 W	1 h	Ni-Cd 4,8 V 1,5 Ah
LEP/58/2	6 W - 58 W	2 h	Ni-Cd 4,8 V 2,5 Ah
LEP/58/3	6 W - 58 W	3 h	Ni-Cd 4,8 V 4,0 Ah
LEP/80/1	6 W - 80 W	1 h	Ni-Cd 6,0 V 1,5 Ah
LEP/80/2	6 W - 80 W	2 h	Ni-Cd 6,0 V 2,5 Ah
LEP/80/3	6 W - 80 W	3 h	Ni-Cd 6,0 V 4,0 Ah

Conversion kit Lider EVG plus works with all types of magnetic ballastis and electronic ballasts.

Dimensions of batteries of conversion kit Lider plus – strona 61.

220-240V 50-60Hz IP20

lider NiMh



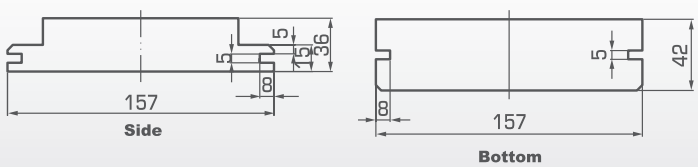
Conversion kit

Technical data:
- Power supply 220-240V/50-60Hz
- Power of fluorescent lamp: 6 ÷ 80W (depends on a model)
- Ambient temperature (t_a) 0 ÷ +55°CC
- Operation temperature (t_c) 0 ÷ +70°
- Batteries used: high temperature maintained - free NiMh
- Battery package voltage: 3,6V, 4,8V, 6V and the capacity 1,5 ÷ 4,0Ah (depends on the model)
- Electronic impulse charger
- Maximum current of battery discharge: <0,95C (emergency operation)
- Maximum charging time 12h
- Emergency operation time 1 ÷ 3h
- Operation frequency 25 ÷ 30 kHz
- The section of attached wires: 0,5 - 1,5mm²
- Energy consumption is 6 times lower then in standard conversion kits
- Ni-Cd battery in option

p. 42

Characteristics:
- The built-in automatic switching system enables continuous operation of the fluorescent lamps with regular power supply as well as in the emergency system
- LF lamp soft start: soft start system ensures long lamp life
- The process of charging and proper battery connection while supplying the system with main voltage 220-240VAC
- The control of minimum voltage of battery discharge
- Cover made from aluminium or polycarbonate
- Protection level IP20
- Small dimensions and easy assembly
- Very low energy consumption
- Small weight

Technical characteristic:
- Power of fluorescent lamp 6W ÷ 80W
- Emergency operation time 1, 2 or 3 hours
- Type of fluorescent lamp T8, T5 compact lamps 4 pins
- Magnetic ballast (VVG, KVG) and electronic ballast (EVG)



Conversion kit Lider NiMh

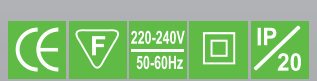
code	power	work	battery
LH/36/1	6 W - 36 W	1 h	NiMh 3,6 V 1,5 Ah
LH/36/2	6 W - 36 W	2 h	NiMh 3,6 V 2,5 Ah
LH/36/3	6 W - 36 W	3 h	NiMh 3,6 V 4,0 Ah
LH/58/1	6 W - 58 W	1 h	NiMh 4,8 V 1,5 Ah
LH/58/2	6 W - 58 W	2 h	NiMh 4,8 V 2,5 Ah
LH/58/3	6 W - 58 W	3 h	NiMh 4,8 V 4,0 Ah

Conversion kit Lider works with all types of magnetic ballasts and chosen EVG ballasts.

Conversion kit Lider EVG NiMh

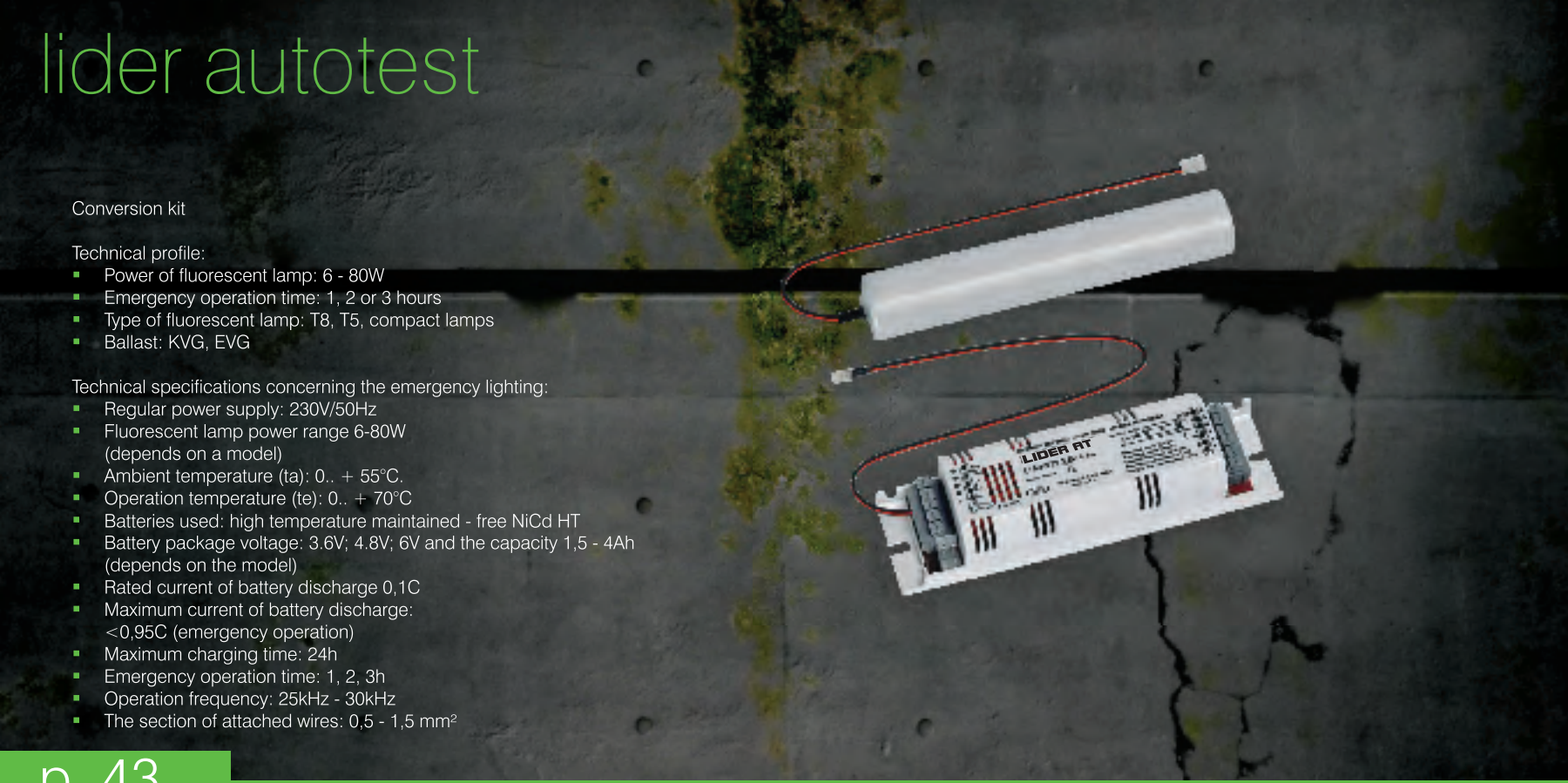
code	power	work	battery
LEH/36/1	6 W - 36 W	1 h	NiMh 3,6 V 1,5 Ah
LEH/36/2	6 W - 36 W	2 h	NiMh 3,6 V 2,5 Ah
LEH/36/3	6 W - 36 W	3 h	NiMh 3,6 V 4,0 Ah
LEH/58/1	6 W - 58 W	1 h	NiMh 4,8 V 1,5 Ah
LEH/58/2	6 W - 58 W	2 h	NiMh 4,8 V 2,5 Ah
LEH/58/3	6 W - 58 W	3 h	NMh 4,8 V 4,0 Ah
LEH/80/1	6 W - 80 W	1 h	NiMh 6 V 1,5 Ah
LEH/80/2	6 W - 80 W	2 h	NiMh 6 V 2,5 Ah
LEH/80/3	6 W - 80 W	3 h	NiMh 6 V 4,0 Ah

Conversion kit Lider EVG NiMh works with all types of magnetic ballasts and electronic ballasts.



Dimensions of batteries for conversion kit Lider NiMh can be found in our catalogue at page 61.

lider autotest



Conversion kit

Technical profile:
- Power of fluorescent lamp: 6 - 80W
- Emergency operation time: 1, 2 or 3 hours
- Type of fluorescent lamp: T8, T5, compact lamps
- Ballast: KVG, EVG

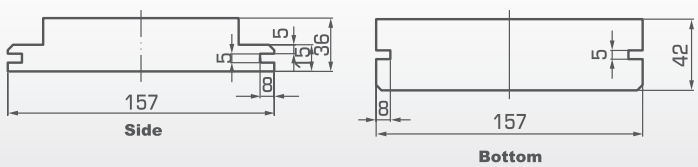
Technical specifications concerning the emergency lighting:
- Regular power supply: 230V/50Hz
- Fluorescent lamp power range 6-80W (depends on a model)
- Ambient temperature (ta): 0.. + 55°C.
- Operation temperature (te): 0.. + 70°C
- Batteries used: high temperature maintained - free NiCd HT
- Battery package voltage: 3.6V; 4.8V; 6V and the capacity 1,5 - 4Ah (depends on the model)
- Rated current of battery discharge 0,1C
- Maximum current of battery discharge: <0,95C (emergency operation)
- Maximum charging time: 24h
- Emergency operation time: 1, 2, 3h
- Operation frequency: 25kHz - 30kHz
- The section of attached wires: 0,5 - 1,5 mm²

p. 43

Test types:
Test A is run automatically every 30 days.
Test A checks the following parameters:
- Enforcing emergency operation of the frame for 5 minutes
- Control of battery power discharge
- Control of minimum voltage of battery

Test B is run automatically every 360 days.
Test B checks the following parameters:
- Enforcing emergency operation of the frame for all duration time (l,2,3h)
- Control of battery power discharge
- Control of minimum voltage of battery

In case of power cut during TEST A or B the unit operates under emergency lighting power. Test signaling continues. After the 230V AC power is on again the unit remains in emergency lighting mode until a full cycle of TEST A or B is completed.



Signaling of Lider autotest unit

●	●	symbolizing
shining	–	regular battery package charging
–	flashing	defective lamp
–	shining	defective battery
–	–	running test / emergency mode

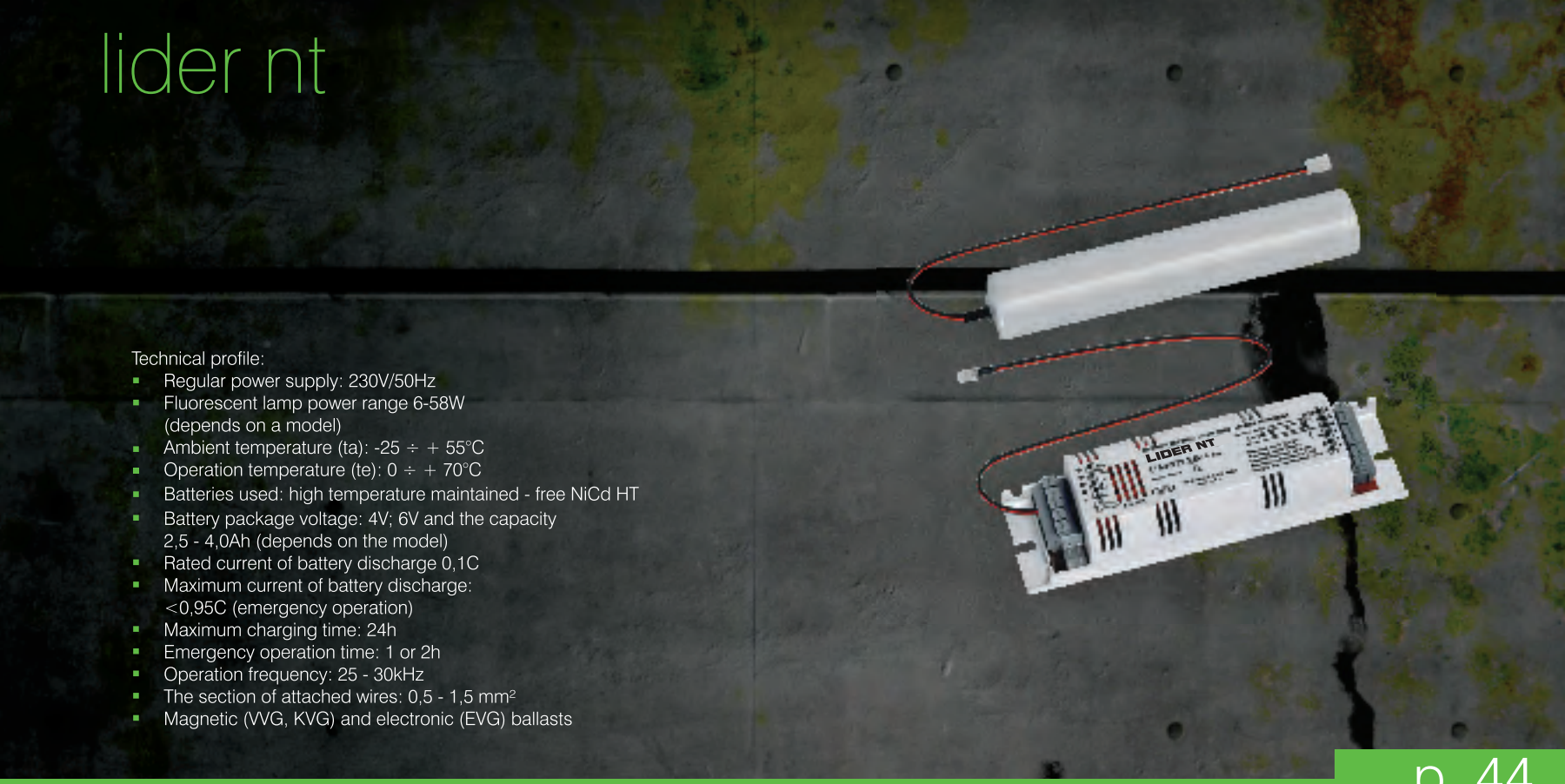
Conversion kit Lider autotest

code	power	work	battery
LE/36/1/AT	6 W - 36 W	1 h	Ni-Cd 3,6 V 2,5 Ah
LE/36/2/AT	6 W - 36 W	2 h	Ni-Cd 3,6 V 2,5 Ah
LE/36/3/AT	6 W - 36 W	3 h	Ni-Cd 3,6 V 4,0 Ah
LE/58/1/AT	6 W - 58 W	1 h	Ni-Cd 4,8 V 2,5 Ah
LE/58/2/AT	6 W - 58 W	2 h	Ni-Cd 4,8 V 2,5 Ah
LE/58/3/AT	6 W - 58 W	3 h	Ni-Cd 4,8 V 4,0 Ah
LE/80/1/AT	6 W - 80 W	1 h	Ni-Cd 6 V 2,5 Ah
LE/80/2/AT	6 W - 80 W	2 h	Ni-Cd 6 V 2,5 Ah
LE/80/3/AT	6 W - 80 W	3 h	Ni-Cd 6 V 4,0 Ah

CE F 230 V 50 Hz IP 20

Dimensions of batteries for conversion kit Lider autotest can be found in our catalogue at page 61.

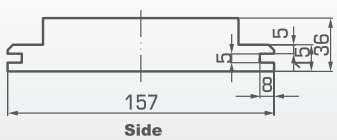
lider nt



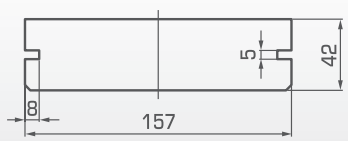
Technical profile:
- Regular power supply: 230V/50Hz
- Fluorescent lamp power range 6-58W (depends on a model)
- Ambient temperature (ta): -25 ÷ + 55°C
- Operation temperature (te): 0 ÷ + 70°C
- Batteries used: high temperature maintained - free NiCd HT
- Battery package voltage: 4V; 6V and the capacity 2,5 - 4,0Ah (depends on the model)
- Rated current of battery discharge 0,1C
- Maximum current of battery discharge: <0,95C (emergency operation)
- Maximum charging time: 24h
- Emergency operation time: 1 or 2h
- Operation frequency: 25 - 30kHz
- The section of attached wires: 0,5 - 1,5 mm²
- Magnetic (VVG, KVG) and electronic (EVG) ballasts

p. 44

Characteristics:
- The built-in automatic switching system enables continuous operation of the fluorescent lamps with regular power supply as well as in the emergency mode
- LF lamp soft start: soft start system ensures long lamp life
- The process of charging and proper battery connection is signalled by a LED while supplying the system with main voltage 230VAC
- The control of minimum voltage of battery discharge
- Polycarbonate or aluminium body
- Protection level IP 20
- Small dimensions and easy assembly



Side



Bottom

Conversion kit Lider nt

code	power	work	battery
L/36/1/NT	6 W - 36 W	1 h	Ni-Cd 3,6V 2,5Ah
L/36/2NT	6 W - 36 W	2 h	Ni-Cd 3,6V 4Ah
L/58/1/NT	6 W - 58 W	1 h	Ni-Cd 4,8V 2,5Ah
L/58/2/NT	6 W - 58 W	2 h	Ni-Cd 4,8V 4Ah

Conversion kit Lider works with all types of magnetic ballasts and chosen EVG ballasts.

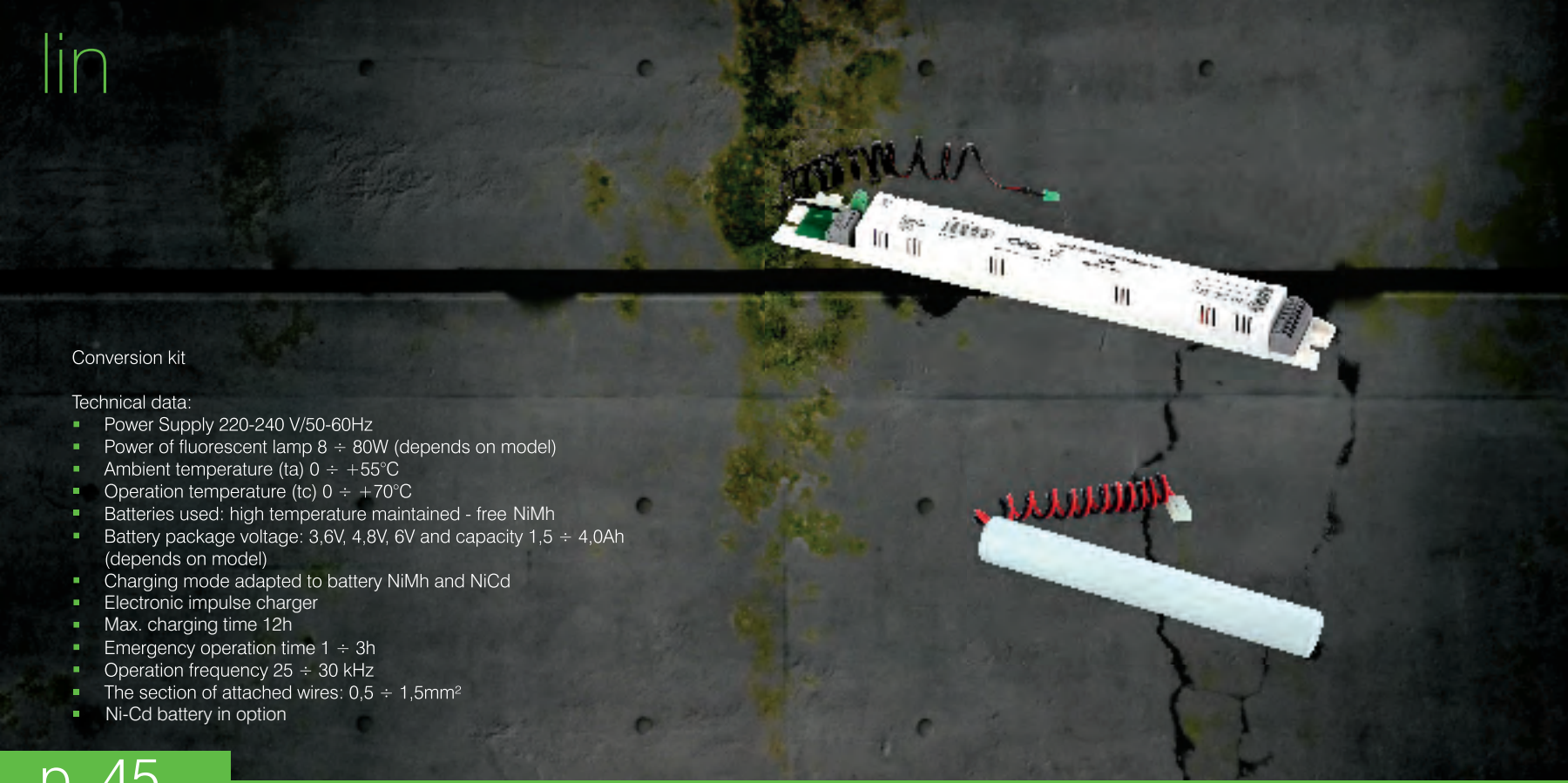
Conversion kit Lider EVG nt

code	power	work	battery
LE/36/1/NT	6 W - 36 W	1 h	Ni-Cd 3,6V 2,5Ah
LE/36/2/NT	6 W - 36 W	2 h	Ni-Cd 3,6V 4Ah
LE/58/1/NT	6 W - 58 W	1 h	Ni-Cd 4,8V 2,5Ah
LE/58/2/NT	6 W - 58 W	2 h	Ni-Cd 4,8V 4Ah

Conversion kit Lider EVG nt works with all types of magnetic ballasts and electronic ballasts.

Dimensions of batteries for conversion kit Lider nt can be found in our catalogue at page 61.

lin



Conversion kit

Technical data:
- Power Supply 220-240 V/50-60Hz
- Power of fluorescent lamp 8 ÷ 80W (depends on model)
- Ambient temperature (ta) 0 ÷ +55°C
- Operation temperature (tc) 0 ÷ +70°C
- Batteries used: high temperature maintained - free NiMh
- Battery package voltage: 3,6V, 4,8V, 6V and capacity 1,5 ÷ 4,0Ah (depends on model)
- Charging mode adapted to battery NiMh and NiCd
- Electronic impulse charger
- Max. charging time 12h
- Emergency operation time 1 ÷ 3h
- Operation frequency 25 ÷ 30 kHz
- The section of attached wires: 0,5 ÷ 1,5mm^2
- Ni-Cd battery in option

p. 45

Characteristics:
- The built-in automatic switching system enables continuous operation of the fluorescent lamps with regular power supply as well as in the emergency system
- LF lamp soft start: soft start system ensures long lamp life The process of charging and proper battery connection while supplying the system with main voltage 230VAC
- The control of minimum voltage of battery discharge
- Cover made from polycarbonate
- Protection rate IP20
- Small dimensions and easy assembly
- Light stream stabilization
- Cathode heating during emergency use
- Low energy consumption
- Small weight
- Low operation temperature allows to assembly in tight fittings
- NiCd battery in option

Technical characteristics:
- Power of fluorescent lamp: 8W ÷ 80W
- Emergency operation time 1, 2 or 3 hours
- Type of fluorescent lamp: T5
- Electronic ballast (EVG)

Side

Bottom

Conversion kit Lin

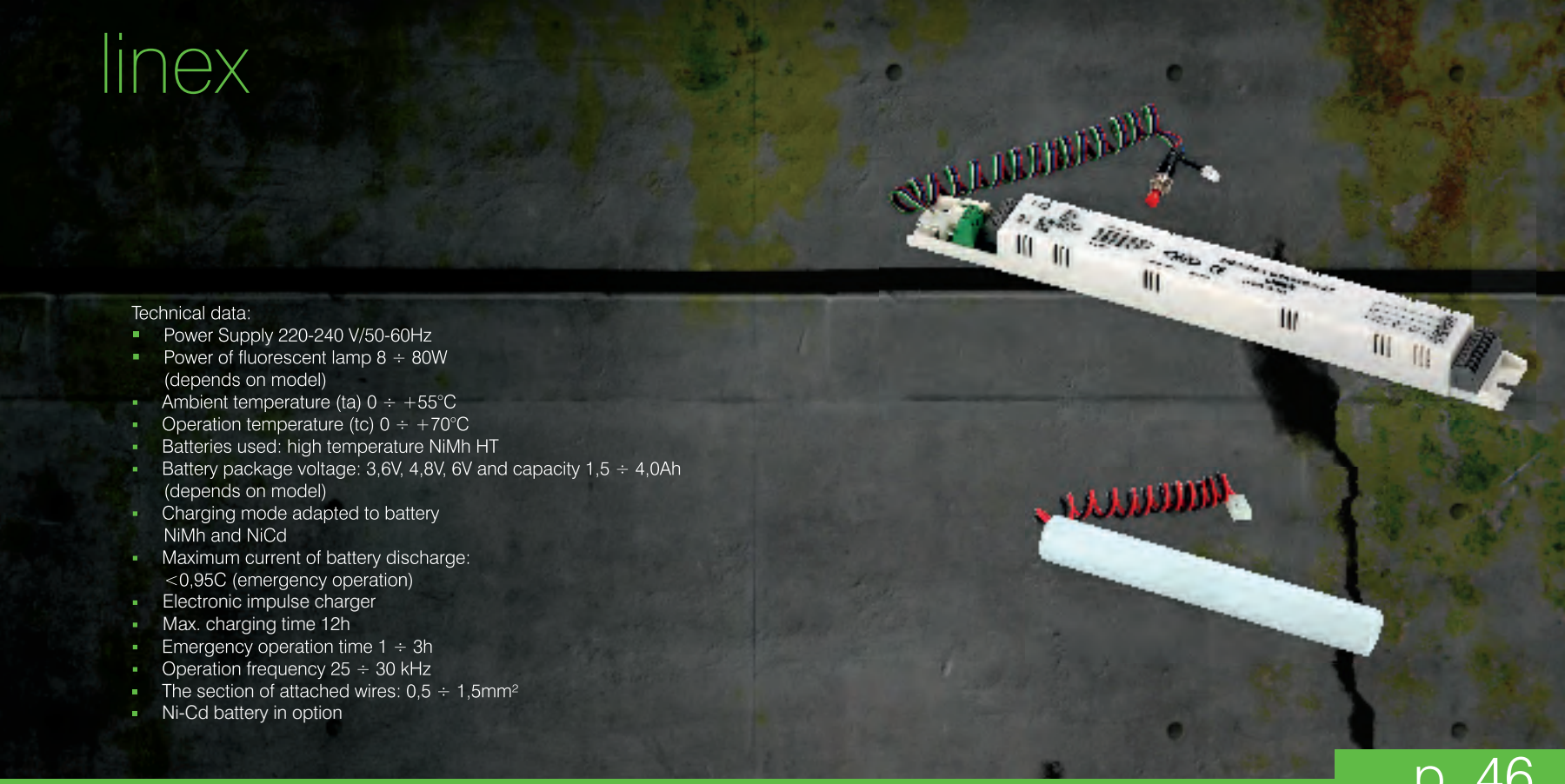
code	power	work	battery
LN/21/1	8 W, 14 W, 21 W	1 h	NiMh 3,6 V 1,5 Ah
LN/21/2	8 W, 14 W, 21 W	2 h	NiMh 3,6 V 2,5 Ah
LN/21/3	8 W, 14 W, 21 W	3 h	NiMh 3,6 V 4,0 Ah
LN/39/1	24 W, 39 W	1 h	NiMh 4,8 V 1,5 Ah
LN/39/2	24 W, 39 W	2 h	NiMh 4,8 V 2,5 Ah
LN/39/3	24 W, 39 W	3 h	NiMh 4,8 V 4,0 Ah
LN/49/1	28 W, 35 W, 49 W	1 h	NiMh 6 V 1,5 Ah
LN/49/2	28 W, 35 W, 49 W	2 h	NiMh 6 V 2,5 Ah
LN/49/3	28 W, 35 W, 49 W	3 h	NiMh 6 V 4,0 Ah
LN/80/1	54 W, 80 W	1 h	NiMh 6V 1,5 Ah
LN/80/2	54 W, 80 W	2 h	NiMh 6V 2,5 Ah
LN/80/3	54 W, 80 W	3 h	NiMh 6V 4,0 Ah

Conversion kit Lin works with all types of magnetic ballasts and electronic ballasts.

220-240V 50-60Hz IP20

Dimensions of batteries for conversion kit Lin can be found in our catalogue at page 61.

linex

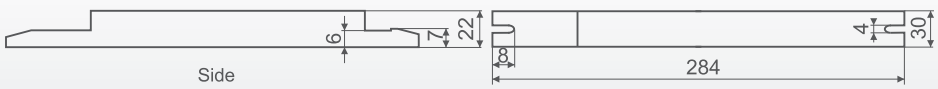


Technical data:
- Power Supply 220-240 V/50-60Hz
- Power of fluorescent lamp 8 ÷ 80W (depends on model)
- Ambient temperature (ta) 0 ÷ +55°C
- Operation temperature (tc) 0 ÷ +70°C
- Batteries used: high temperature NiMh HT
- Battery package voltage: 3,6V, 4,8V, 6V and capacity 1,5 ÷ 4,0Ah (depends on model)
- Charging mode adapted to battery NiMh and NiCd
- Maximum current of battery discharge: <0,95C (emergency operation)
- Electronic impulse charger
- Max. charging time 12h
- Emergency operation time 1 ÷ 3h
- Operation frequency 25 ÷ 30 kHz
- The section of attached wires: 0,5 ÷ 1,5mm²
- Ni-Cd battery in option

p. 46

Characteristics:
- The built-in automatic switching system enables continuous operation of the fluorescent lamps with regular power supply as well as in the emergency system
- LF lamp soft start: soft start system ensures long lamp life
- The process of charging and proper battery connection
- while supplying the system with main voltage 230VAC
- The control of minimum voltage of battery discharge
- Cover made from polycarbonate
- Protection rate IP20
- Small dimensions and easy assembly
- Light stream stabilization
- Cathode heating during emergency use
- Cathode preheating before emergency use
- Low energy consumption
- Low temperature loss allows to assembly in tight fittings
- Small weight
- Additional output for a module designed for night operation
- Cooperation with Rubic system or operation with autotest version

Technical characteristics:
- Power of fluorescent lamp: 8W ÷ 80W
- Emergency operation time 1, 2 or 3 hours
- Type of fluorescent lamp: T5
- Electronic ballasts (EVG)



Conversion kit Linex

code	power	work	battery
LX/21/1	8 W, 14 W, 21 W	1 h	NiMh 3,6 V 1,5 Ah
LX/21/2	8 W, 14 W, 21 W	2 h	NiMh 3,6 V 2,5 Ah
LX/21/3	8 W, 14 W, 21 W	3 h	NiMh 3,6 V 4,0 Ah
LX/39/1	24 W, 39 W	1 h	NiMh 4,8 V 1,5 Ah
LX/39/2	24 W, 39 W	2 h	NiMh 4,8 V 2,5 Ah
LX/39/3	24 W, 39 W	3 h	NiMh 4,8 V 4,0 Ah
LX/49/1	28 W, 35 W, 49 W	1 h	NiMh 6 V 1,5 Ah
LX/49/2	28 W, 35 W, 49 W	2 h	NiMh 6 V 2,5 Ah
LX/49/3	28 W, 35 W, 49 W	3 h	NiMh 6 V 4,0 Ah
LX/80/1	54 W, 80 W	1 h	NiMh 6V 1,5 Ah
LX/80/2	54 W, 80 W	2 h	NiMh 6V 2,5 Ah
LX/80/3	54 W, 80 W	3 h	NiMh 6V 4,0 Ah

Conversion kit Linex works with all types of magnetic ballasts and electronic ballasts.

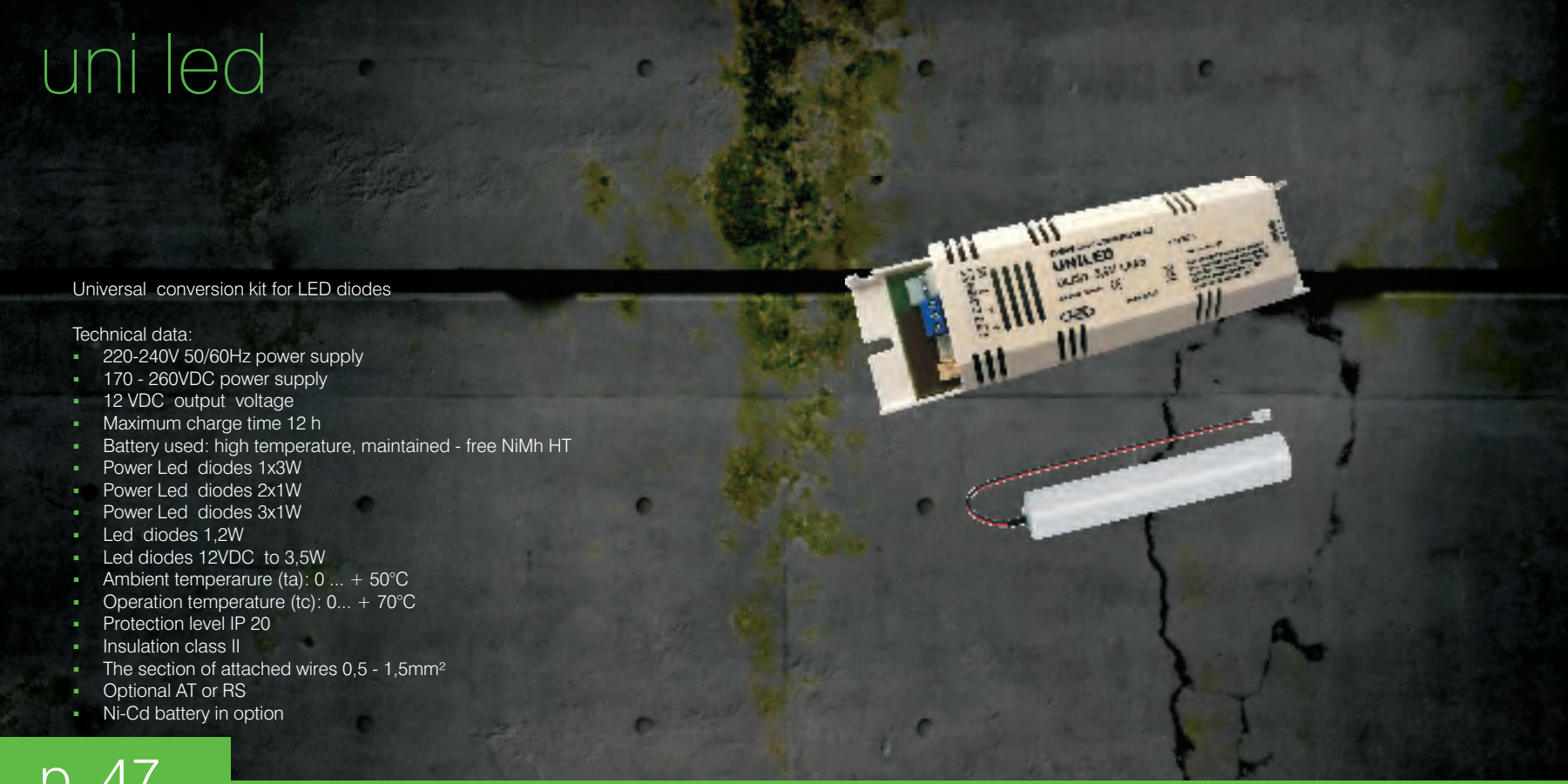
Dimensions of batteries for conversion kit Linex can be found in our catalogue at page 61.

Signaling of Linex in version with Autotest

LED Colour	signal	symbolizing
●	no signal	emergency mode / running test
	shining	defective battery
	flashing	defective lamp
●	no signal	emergency mode / running test
	shining	regular battery package charging countdown to next test

220-240V 50-60Hz IP20

uni led



Universal conversion kit for LED diodes

Technical data:
- 220-240V 50/60Hz power supply
- 170 - 260VDC power supply
- 12 VDC output voltage
- Maximum charge time 12 h
- Battery used: high temperature, maintained - free NiMh HT
- Power Led diodes 1x3W
- Power Led diodes 2x1W
- Power Led diodes 3x1W
- Led diodes 1,2W
- Led diodes 12VDC to 3,5W
- Ambient temperarure (ta): 0 ... + 50°C
- Operation temperature (tc): 0... + 70°C
- Protection level IP 20
- Insulation class II
- The section of attached wires 0,5 - 1,5mm²
- Optional AT or RS
- Ni-Cd battery in option

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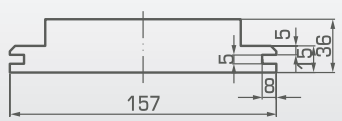
General supplier of voltage-current type, assigned for power supply of led sources of flight.

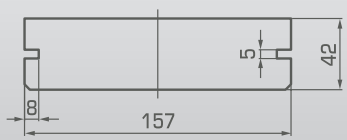
The supplier is to be used in the systems of central battery as well as a simple supplier.

The maximal wattage of the led source of light connected to the supplier is 3,5 W with the voltage 12 VDC. The supplier has fuses both at the side of power supply and exit circuit. Uniwersal maintained/ non maintained version.

Universal maintained (SA) / non-maintained version (SE)



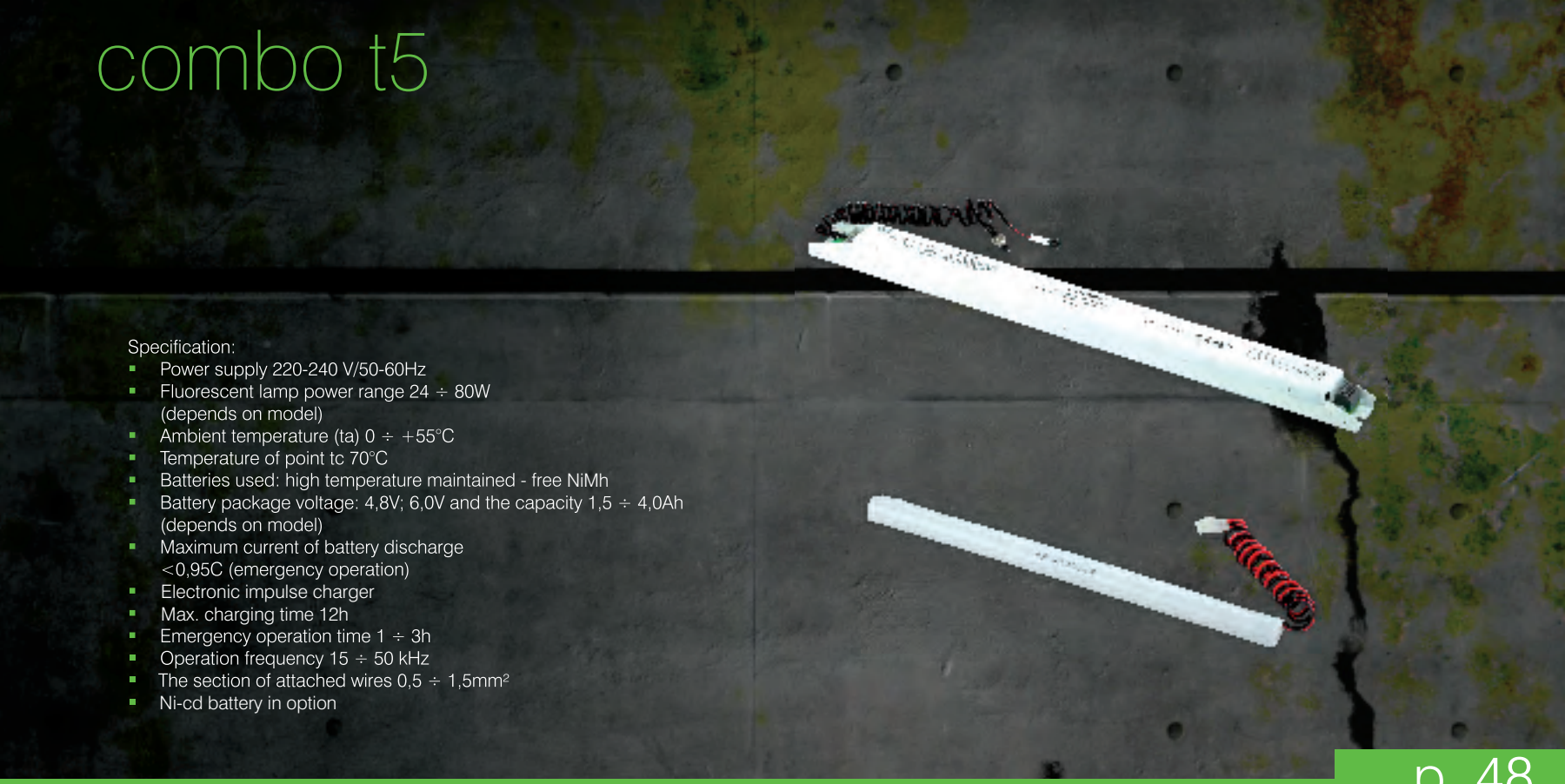
Side



Bottom

code	power	work	battery
UL/1	1W - 3W	1 h	Ni-Mh/Ni-Cd 3,6 V 1,5 Ah
UL/2	1W - 3W	2 h	Ni-Mh/Ni-Cd 3,6 V 2,5 Ah
UL/3	1W - 3W	3 h	Ni-Mh/Ni-Cd 3,6 V 4,0 Ah

combo t5



Specification:

- Power supply 220-240 V/50-60Hz
- Fluorescent lamp power range 24 ÷ 80W (depends on model)
- Ambient temperature (ta) 0 ÷ +55°C
- Temperature of point tc 70°C
- Batteries used: high temperature maintained - free NiMh
- Battery package voltage: 4,8V; 6,0V and the capacity 1,5 ÷ 4,0Ah (depends on model)
- Maximum current of battery discharge <0,95C (emergency operation)
- Electronic impulse charger
- Max. charging time 12h
- Emergency operation time 1 ÷ 3h
- Operation frequency 15 ÷ 50 kHz
- The section of attached wires 0,5 ÷ 1,5mm^2
- Ni-cd battery in option

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Characteristics:

- The built-in automatic switching system enables continuous operation of the fluorescent lamps with regular power supply as well as in the emergency system
- LF lamp soft start: soft start system ensures long lamp life
- The process of charging and proper battery connection while supplying the system with main voltage 220-240VAC
- The control of minimum voltage of battery discharge
- The cover made from painted steel
- Protection level IP20
- Light stream stabilization
- Cathode heating during emergency use
- Low energy consumption; 6 times lower during emergency operation
- Low operation temperature allows to assembly in tight fittings
- Small weight
- Type of fluorescent lamp T5
- NiCd battery in option

Conversion kit Combo T5

code	power	work	battery
CM/35/1	28 W, 35 W	1 h	NiMh 6 V 1,5 Ah
CM/35/2	28 W, 35 W	2 h	NiMh 6 V 2,5 Ah
CM/35/3	28 W, 35 W	3 h	NiMh 6 V 4,0 Ah
CM/39/1	24 W, 39 W	1 h	NiMh 4,8 V 1,5 Ah
CM/39/2	24 W, 39 W	2 h	NiMh 4,8 V 2,5 Ah
CM/39/3	24 W, 39 W	3 h	NiMh 4,8 V 4,0 Ah
CM/49/1	49 W	1 h	NiMh 6 V 1,5 Ah
CM/49/2	49 W	2 h	NiMh 6 V 2,5 Ah
CM/49/3	49 W	3 h	NiMh 6 V 4,0 Ah
CM/80/1	54 W, 80 W	1 h	NiMh 6V 1,5 Ah
CM/80/2	54 W, 80 W	2 h	NiMh 6V 2,5 Ah
CM/80/3	54 W, 80 W	3 h	NiMh 6V 4,0 Ah

Dimensions of batteries for conversion kit Combo T5 can be found in our catalogue at page 61.

rubic monitoring system

Description of the RUBIC system:
In buildings where there is a need for installing a large number of independent emergency lighting fittings, there is always a problem connected to the process of controlling the condition of the fittings. Manual controlling of the condition of the fittings requires a lot of time and may sometimes disturb the regular use of the premises. RUBIC system, designed to monitor the operation of emergency fittings with independent power sources, was created to solve this problem. Modern solutions of the Rubic system allow to configure and control the condition of the fittings from one place. Components of the system: C-Rubic control unit, LIDER RS address emergency module, P-Rubic programmer. The heart of the system is Rubic central unit, which supervises the whole system operation. In its interior an advanced technology is applied, which gives plenty of possibilities in configuration, programming of work parameters and its checking, data storage and system's enlargement. Awex wanted to make attractive its perfect product by putting Rubic SD central unit on market which is natural development of Rubic central unit.

RUBIC_SD central unit gives almost all possibilities of RUBIC central unit and offers many new options:
- SD card. Card (capacity up to 16GB) enables easy and fast reports transfer from central unit to other devices, e.g. PC. Files are saved on SD card as text files.
- USB Devie port. USB replaced RS232, which makes an additional devices of your computer unnecessary.
- Group programming. Free defining of fitting groups was not available in previous version. System of fittings could be divided into groups but a division was determined by physical topology of network, and not by actual needs of user. Now, logical groups can be defined and modified freely with no influence of the topology, which enables specifying of many various testing options, e.g. test of fittings in one particular room.
- Night operation. In some premises switching on the lighting is necessary in some situations, e.g. during security check rounds. Option of night operation lets to minimize the number of active fittings and to save energy in this way. Controlling the lighting system from 1 place gives comfort and prevents from accidental leaving the lighting turned on. Additionally, group programming creates a possibility of specifying numerous variations of night operation, which may be scheduled or activated manually.
- Authorization. To disable an unauthorized access to the system, any change of configuration demands taping a password.

New version of service application provides a few innovations:
- Graphic visualization of the system. After uploading of a building plan into the system, it is possible to mark a particular fitting on it, and then to find the fitting's actual position. A state of each fitting is indicated with a specified colour. It is also possible to switch intuitively into the previous version of application.
- Client/Server. A pplication was created as a pair Client/Server. It enables an installation of server application on a computer, which is physically connected with central unit and remote connection with client's application with the use of LAN as well as WAN network.
- Offline operation. Application allows to create a whole system configuration at an user's desk and without a connection with Rubic system. Prepared configuration may be uploaded to the system, with simultaneous recording of configuration errors.

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C-RUBIC control unit

- Standard monitoring of 250 fittings
- Control and communication with other C-RUBIC control units
- Expansion within the standard unit up to 1000 luminares
- Expansion of the system with one control unit up to 10,000
- Record of all made tests on SD card
- 3 LED diodes signalling the condition of the system
- LCD monitor
- 230V 50Hz power supply
- Charging time - 24h
- Communication through a screened cable 2 x 0,8 mm^2
- Distance between the control unit and the furthest fitting - 1200 m
- Possibility of extending the lenght of communication cable by the next 1200 m by using the RPT signal amplifier (quantity of amplifiers in 1 network is unlimited)
- Power supply through 3 x 1,5 mm^2 cable
- USB connection port for communication with central unit
- Night operation
- Independent power supply (battery)
- Possibility of group programming
- Cooperation with LED's fitting

Programmer

- P-RUBIC
- Serial programming of LIDER RS modules
- Individual programming of LIDER RS modules
- Programming without the necessity of power supply to the LIDER RS module
- Independent power supply

SD memory card

- Memory up to 16GB
- Small dimensions

Lider RS address emergency module

- Unique address
- Fluorescent lamp power 6W ÷ 58W
- Emergency operation time 1, 2 or 3 hours
- Fluorescent T8 and compact 4 pins lamps
- Compatibility with magnetic (VVG, KVG) and electronic (EVG) ballasts
- Green diode - signals correct battery charging
- Red diode - signals abnormal functioning of the fitting

code	power	work	battery
RS/36/1	6 W - 36 W	1 h	Ni-Cd 3,6 V 2,5 Ah
RS/36/2	6 W - 36 W	2 h	Ni-Cd 3,6 V 2,5 Ah
RS/36/3	6 W - 36 W	3 h	Ni-Cd 3,6 V 4,0 Ah
RS/58/1	6 W - 58 W	1 h	Ni-Cd 4,8 V 2,5 Ah
RS/58/2	6 W - 58 W	2 h	Ni-Cd 4,8 V 2,5 Ah
RS/58/3	6 W - 58 W	3 h	Ni-Cd 4,8 V 4,0 Ah

Linex address
emergency module

- Unique address
- Fluorescent lamp power 8W ÷ 80W
- Emergency operation time 1, 2 or 3 hours
- Fluorescent lamp type T5, compact 4 pin
- Compatibility with magnetic (VVG, KVG) electronic (EVG) ballasts
- Green diode - signals correct battery charging
- Red diode - signals abnormal functioning of the fitting
- Additional outlet for night operation module

code	power	work	battery
LX/21/1	8 W, 14 W, 21 W	1 h	Ni-Cd 3,6 V 1,5 Ah
LX/21/2	8 W, 14 W, 21 W	2 h	Ni-Cd 3,6 V 2,5 Ah
LX/21/3	8 W, 14 W, 21 W	3 h	Ni-Cd 3,6 V 4,0 Ah
LX/39/1	24 W, 39 W	1 h	Ni-Cd 4,8 V 1,5 Ah
LX/39/2	24 W, 39 W	2 h	Ni-Cd 4,8 V 2,5 Ah
LX/39/3	24 W, 39 W	3 h	Ni-Cd 4,8 V 4,0 Ah
LX/49/1	28 W, 35 W, 49 W	1 h	Ni-Cd 6 V 1,5 Ah
LX/49/2	28 W, 35 W, 49 W	2 h	Ni-Cd 6 V 2,5 Ah
LX/49/3	28 W, 35 W, 49 W	3 h	Ni-Cd 6 V 4,0 Ah
LX/80/1	54 W, 80 W	1 h	Ni-Cd 6 V 1,5 Ah
LX/80/2	54 W, 80 W	2 h	Ni-Cd 6 V 2,5 Ah
LX/80/3	54 W, 80 W	3 h	Ni-Cd 6 V 4 Ah

Functions of the system:

- Constant communication between central unit and lighting fittings
- Running auto-tests
- Running manual tests
- Registering test results (memory of central unit - minimum 3 years)
- Record of test results on SD memory card
- Emergency mode lock
- Dividing the monitored fittings into groups
- Reporting any abnormalities
- Connecting with a PC through an interface an interface and creating visual presentations with the help of a special software
- Online control of the system from any place
- Test calendar configured to suit individual needs
- Night operation

Lighting fittings working under the RUBIC system have unique addresses and are connected to C-Rubic control unit with a communication cable. The fittings communicate with the central unit reporting any abnormalities which are signaled on the central unit display with LED diodes placed on the central unit panel. Each fitting connected to the system may have an individual description in the control unit, which enables to locate it in easy & fast way. When abnormalities with operation of a fitting accur information about the type of abnormality and the location of the fitting appears on the display of the control unit. The system allows for manual testing of a single fitting. C-Rubic central unit's software allows to divide the fittings into groups which henables one to run tests only on chosen groups of fittings.

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Linex
addressing emergency
module

Lider RS
addressing emergency
module

C-RUBIC
central unit

P-RUBIC
programmer

SD Memory
Card

Apart from manual tests, the following auto-tests are carried out:

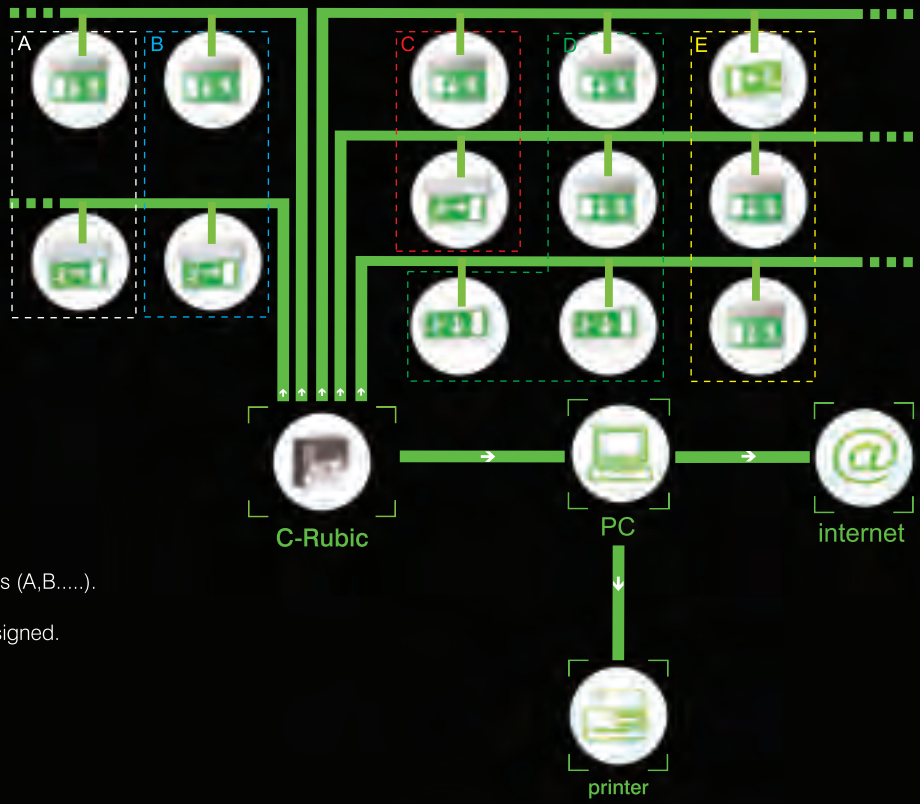
Test A - a short test, recommended every 30 days (PN-EN 50172) - checks the following parameters:

- enforcing emergency operation of the fitting for 5 minutes
- control of battery power discharge
- control of minimum voltage of battery

Test B - a long test recommended every 360 days (PN-EN 50172) - checks the following parameters:

- enforcing emergency operation of the fitting for
- the time programmed for each fitting (1, 2, 3 h)
- control of battery power discharge
- control of minimum voltage of battery
- control of the condition of battery

The frequency of running tests A and B may be programmed according to the needs of the user. There is a possibility of programming the tests with exact dates of when they should be carried out. Long tests B should be run when the premises are not used within 24 hours after finishing the test. This time is needed for the recharging of batteries discharged during the long test. Test results are stored in the memory of the central unit and may be viewed on the central unit's display. Test reports may be recorded on SD memory card and may be printed on any PC.



Group operation:
There is a possibility to divide the fittings into groups (A,B.....).
In whole system up to 15 groups can be defined.
To each group unlimited fittings quantity can be assigned.

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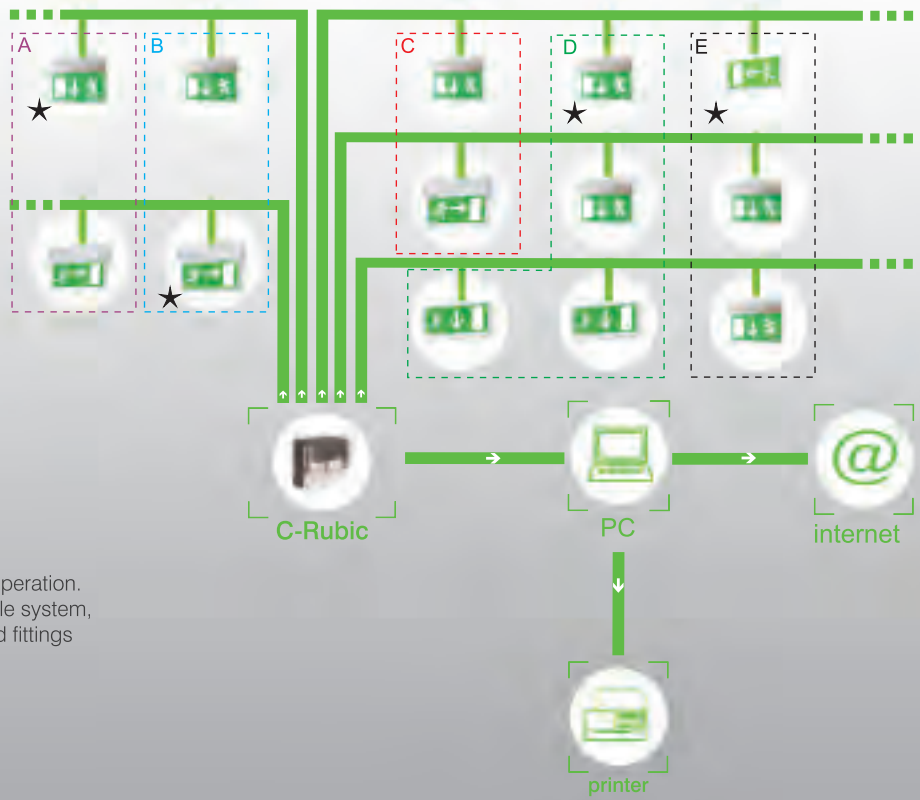

Night operation:
There is a possibility to define the fittings for night operation.
The night operation can be defined in range of whole system, one group or one card only. In each group unlimited fittings can be assigned for night operation.

rubic system tp

Specyfication to Rubic TP central unit:

- Standard monitoring of 500 luminares luminares
- Control of the system with other C-RUBIC control unit
- Record of all made tests on SD card
- LCD display with touch screen 5.7"
- 230C 50 Hz power supply
- Charging time - 12h
- Communication via the cable screen 2 x 0,8 mm^2
- Power via the calbe 3 x 1,5 mm^2
- Distanse from the central unit to the furthest luminare - 1200 m
- Possibility to extend the distance communication cable for antoher 1200 meters with a signal amplifiler RPT (quantity of amplifiers on 1 network is unlimited)
- USB connector for communication with the control unit
- Night operation
- Own power supply (battery)
- Possibility of group programming
- Cooperation with LED luminares

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Rubic TD central unit has its own wireless adapter with the battery LiFePO4 that enables its normal operation during a power failure. Being adapted for use with emergency lighting made in LED technology, the whole system is energy efficient and eco. It's widely known that modern highly efficient LEDs are more and more often used in emergency lighting, and the AWEX central unit of new generation is perfectly suited to this.

Standard central unit can monitor 500 fittings. Distance from the central to the furthest luminaire can be up to 1220 m but its possible to extend the distance communication cable for another 1200 meters with a signal amplifier RPT (quantity of amplifiers in 1 network is unlimited).
Graphic visualization of the system: the previous application allowed only that type of system visualization which didn't give the straight information about the localization of the luminaire but only her logical localization in the system. Now it's very easy to obtain the information about the physical localization of the luminaire. The application allows to upload the building plans into the system and mark emergency lighting luminaires on them. A state of each luminaire is indicated with a specified color of representing it pictogram.

The undeniable advantage is the possibility to switch intuitively between the visualization known from the previous version of application and visualization on the building plan.
USB/Ethernet – the application can communicate with the central unit through USB or UDP. In this first option the computer must be placed near the central unit because of the limit of USB standard. The more interesting option is connection to the LAN. It enables access to the central unit from any computer in the network.

ATTENTION: only one connection is possible. Offline operation: application allows to create a whole system configuration at an user's desk without necessity of connecting to Rubic system. Such configuration may be uploaded to the system installed in the building, simultaneously all errors reported by the system during configuration process are recorded.

central battery system

type: CBS

The Central battery system type CBS is constructed in accordance with the requirements of the standards VDE 0108 and PN-EN 50171. CBS System belongs to a group of systems of a limited load (LPS), preserving all CBN properties. Offers various possibilities of the inclusion of safety lighting concept to building lighting and direct plug in of normal lighting. There are two options of the systems depending on the load output, respectively 4 kW and 8kW.

The system features:

- 5 work modes, different modes on a single circuit,
- monitoring of individual fittings,
- zoning possibility,
- visualization possibility, monitoring via Ethernet,
- programming of a single fitting possibility,
- expandability of the system of substations.

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Technical specification

Voltage	230V/400V 50Hz
Charger	Typ E - single-phase power 230V 50Hz Typ D - three-phase power 400V 50Hz
Output voltage	230 AC / 216V DC
Output circuumber	4 kW version: 1 - 20 4 kW version: 21 - 40
Ambient temperature	0°C - 40°C
The integrity of enclosure	IP 21
Safety class	I
Colour	RAL 7035

* Standard cabinets shown above. Special projects on demand at extra charge.

central battery system

type: CBM

Central battery system type CBM is constructed in accordance with the requirements of the standards VDE 0108 and PN-EN 50171. The system allows to monitor groups of circuits DS, BS, and by applying relevant modules also circuits and fittings. The system is controlled and programmed by the SLC microprocessor controls module.

- SLC microprocessor control module with LCD panel
- loading and supercharging device of IU characteristics with temperature compensation
- group module
- output circuits terminals
- ZLT module
- phases loss sensor

Additional optional items:

- circuits monitoring module
- fittings monitoring module
- MP 500 and MP 4A switching modules
- reports and tests protocols printer
- PZS panel remote
- substations
- substations with E30 function

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Technical specification

Voltage	230V/400V 50Hz
Charger	Typ E - single-phase power 230V 50Hz Typ D - tree-phase power 400V 50 Hz
Output voltage	230 AC / 216V DC
Ambient temperature	0°C - 40°C
The integrity of enclosure	IP 21
Safety class	I
Type of cabinet	STK, NL
Colour	RAL 7035

Casing type	Cabinet type	Cabinet dimensions L x W x D (mm)	Battery part dimensions L x W x D (mm)	Max modules number output circuits protections number DO1 / DO2	Automat
STK 8.20	Combi	1800x800x450	600x550x380	15	11
STK 8.21	Combi	1800x800x600	600x750x550	35	26
STK 9.20	Combi	2000x900x600	800x550x550	30	22
STK 9.21	Combi	2000x900x600	800x850x550	41	30
STK 12.21S	Combi	2000x800x600	800x750x550	50	33
NL 3	Standard	1200x600x430	–	30	22
NL 5.21	Standard	1400x800x600	–	57	43
NL 8.20	Standard	1800x600x450	–	45	33
NL 8.21	Standard	1800x800x600	–	79	60
NL 9.21	Standard	1800x900x600	–	90	69

* Standard cabinets shown above. Special projects on demand at extra charge.

central battery system

type: CBG1500

The System of battery group type CBG 1500 is equipped with all necessary for the proper functioning of the installation devices for loading, switching and monitoring. The system charger, consisting of the loading and supercharging systems, provides batteries loading in accordance with the PN 50 171. In the upper part of the casing there are readily available on DIN rail three-row connectors to connect linear circuits. The system is intended to power supply 4, 8, 12, 16 or 20 final circuits with a total capacity of not more than 1500W for time sustain of 1 hour or 500W for time maintaining 3 h. Using TWIN technologies, it is possible to install fittings in three modes of operation on a single circuit. The system is of particular use to power the LED luminaires and low wattage luminaires.

Standard equipment of the cabinet consists of the following elements:

- loading and supercharging devices of IU characteristics,
- linear modules NLE 4/220,
- SLC controller and monitoring devices,
- ZLT module,
- enter potential modules or no potential modules - optionally.

p. 55

Technical specification

Voltage	230V/400V 50Hz
Charger	Typ E - single-phase power 230V 50Hz
Output voltage	230 AC / 216V DC
Output circuumber	4 - 20
Power	Up to 1500 W - emergency time maintaining 1h Up to 500 W - emergency time maintaining 5h
Ambient temperature	0°C - 40°C
The integrity of enclosure	IP 21
Safety class	I
Cabinet dimensions L x W x D (mm)	1200x600x430
Battery part dimensions L x W x D (mm)	190x570x360 (the cabinet consist of two shelves)
Colour	RAL 7035

* Standard cabinets shown above. Special projects on demand at extra charge.

central battery system

type: CBL

Central emergency lighting system CBL has all necessary for the proper functioning of the installation devices forloading, switching and monitoring. Charger system, consisting of the loading and supercharging devices, provides batteries loading in accordance with the PN 50 171. There are produced three types of cabinets adapted to install upto 20, 32 and 44 final circuits. In the upper part of the casing there are readily available on DIN rail three-rowconnectors to connect linear circuits.

Standard equipment consists of the following elements:

- control panel cover,
- loading and supercharging devices of IU characteristics,
- linear modules NLE 4/220,
- SLC controller and monitoring devices,
- enter potential modules or no potential modules,
- compact cabinet measurements 1800x800x600mm,
- ZLT module,
- the printer – optionally.

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Typ	Equioment
CBL 20	Charger max. output current: 5A 5 modules for linear type NLE4/220 (max 20 circuits) Enter potential modules or no potential modules LSM type Casing consisting of two parts with 3 shelves on batteries Dimensions: 1800x800x600 mm
CBL 32	Charger max. output current: 8A 8 linear type modules NLE4/220 (max 32 circuits) Enter potential modules or no potential modules LSM type Casing consisting of two parts with 3 shelves on batteries Dimensions: 1800x800x600 mm
CBL 20	Charger max. output current: 8A 11 modules for linear type NLE4/220 (max 44 circuits) Enter potential modules or no potential modules LSM type Casing consisting of two parts with

Notice:
CBL systems are also available with TWIN technology
* Standard cabinets shown above. Special projects on demand at extra charge.

central battery system

type: CBC

The Central battery system type CBC is constructed in accordance with the requirements of the standards VDE 0108 and PN-EN 50171. The structure is based on a 19 inch linear terminals in which the linear modules are installed. Linear circuits are connected to a three-row screw connector mounted on a DIN rail. The CBC System allows to monitor the particular circuits and housing through the address modules, also has a possibility of monitoring circuits (freely programmable current error at the periphery).
The biggest advantage of this system is the ability to use TWIN technology that allows for installation on a single housing fittings with different strengths and of the various modes of operation. Depending on the type of the object it is possible to connect substations, allowing central battery system diversification and thereby cause a reduction in the cost of installation by shortening circuit units installed. The circuits can be freely programmed on suitable mode: clear (DS), dark (BS) and switched over. Switchable is achieved by applying the respective modules: LSM, MP500, MP4A. Sensors power outages application in the lighting switching stations allows to program the selective lighting to switch on.

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Technical specification

Voltage	230V/400V 50Hz
Charger	Typ E - single-phase power 230V 50Hz Typ D - tree-phase power 400V 50 Hz
Output voltage	230 AC / 216V DC
Ambient temperature	0°C - 40°C
The integrity of enclosure	IP 21
Safety class	I
Type of cabinet	STK, NL
Colour	RAL 7035

Casing type	Cabinet type	Cabinet dimensions L x W x D (mm)	Battery part dimensions L x W x D (mm)	Max modules number NLE 4/220	Max circus number
STK 8.21-1-T5	Combi	1800x800x600/450	1800x800x600/450	5	20
SKT 8.21-1	Combi	1800x800x600/450	1800x800x600/450	11	44
SKT 9.21-1-T5	Combi	2000x900x600/450	2000x900x600/450	5	20
SKT 9.21-1	Combi	2000x900x600/450	2000x900x600/450	11	44
NL 8.21-1	Standard	1800x800x600/450	–	11	44
NL 8.21-2	Standard	1800x800x600/450	–	22	88
NL 8.21-3 (*)	Standard	1800x800x600/450	–	33	132

* Standard cabinets shown above. Special projects on demand at extra charge.

central battery system

type: CBN

The Central battery system type CBN is constructed in accordance with the requirements of the standards VDE 0108
and PN-EN 50171. The CBN System offers various possibilities of the inclusion of safety lighting concept to building
lighting and direct plug in of normal lighting, lack of any restrictions in planning a replacement network and plenty of
the options.

The system features:

- 5 work modes, different modes on a single circuit,
- monitoring of individual fittings,
- zoning possibility,
- visualization possibility, monitoring via Ethernet,
- programming of a single fitting possibility,
- expandability of the system of substations.

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Technical specification

Voltage	230V/400V 50Hz
Charger	Typ E - single-phase power 230V 50Hz Typ D - tree-phase power 400V 50 Hz
Output voltage	230 AC / 216V DC
Output circut number	Up to 40
Ambient temperature	0°C - 40°C
The integrity of enclosure	IP 21
Safety class	I
Type of cabinet	STK, NL
Colour	RAL 7035

Casing type	Cabinet dimensions L x W x D (mm)	SKM number	IOM number	Substations number
STK 8.20	1800x600x450	10	2	2 (5*)
STK 8.20+ZS1	1800x1200x600	15	2	8 (2*)
NL8.20+ZS2	1800x1400x600	15	2	14 (2*)
NL8.21	1800x800x600	15	2	2 (5*)
NL8.21	1800x800x600	9	2	6 (5*)
STK8.21-2G (4*)	1800x800x600	9	2	2 (5*)
HVW20	1000x600x250	9	1	–
HVW20-E30 (3*)	896x496x170	9	1	–

* Standard cabinets shown above. Special projects on demand at extra charge.

emergency mode central lock system

System components:

Backup power supplier

Digital clock

Switch operated by the use of key

Central Lock Module

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Selection of the system parameters

Maximum number of fittings in the system	Connection wire section [mm²]	Minimum current efficiency of the power supplier and switch [A]	Minimum capacity of battery [mAh]	Minimum number of lines	Maximum number of fittings in one line	L1 [m]	L2 [m]
15	0,75	0,5	1200	1	15	50	300
15	1	0,5	1200	1	15	70	350
50	1	1,5	7200	1	50	20	100
50	1,5	1,5	7200	1	50	20	150
100	1,5	3	12000	2	50	20	150
150	1,5	4	17000	3	50	20	150
200	1,5	6	24000	4	50	20	150
250	1,5	8	28000	5	50	20	150
300	1,5	10	33000	6	50	20	150

L1 – maximum distance between the power supplier and the first fitting in the line with the maximum possible number of fittings
L2 - maximum distance between the first and last fitting in the line with the maximum possible number of fittings

System Application:
System is designed for emergency lighting systems, in which an option of locking the emergency mode in fittings is demanded. Central switch (normally closed) operates the lock function, and enables turning the whole emergency lighting system into emergency lock mode in any time and for any time. When the lock mode is on, conducting an emergency mode test is unavailable.

By the use of backup power supplier the emergency lock mode may be sustained, even if the mains power supply disappeared - then, if the lock mode has been previously enabled (switch open), the fittings will not turn into emergency mode.

Description of the system operation:
Normally, when the power supply from the mains disappeared, the emergency fittings are to turn into the emergency mode. The emergency mode lock switch is closed. The lock is disabled.

In every moment and for the any period of time the emergency mode lock can by activated, by opening the switch. Then, the fittings will not turn into emergency mode, when the power supply from the network disappears. Conducting the emergency mode test is also unavailable.

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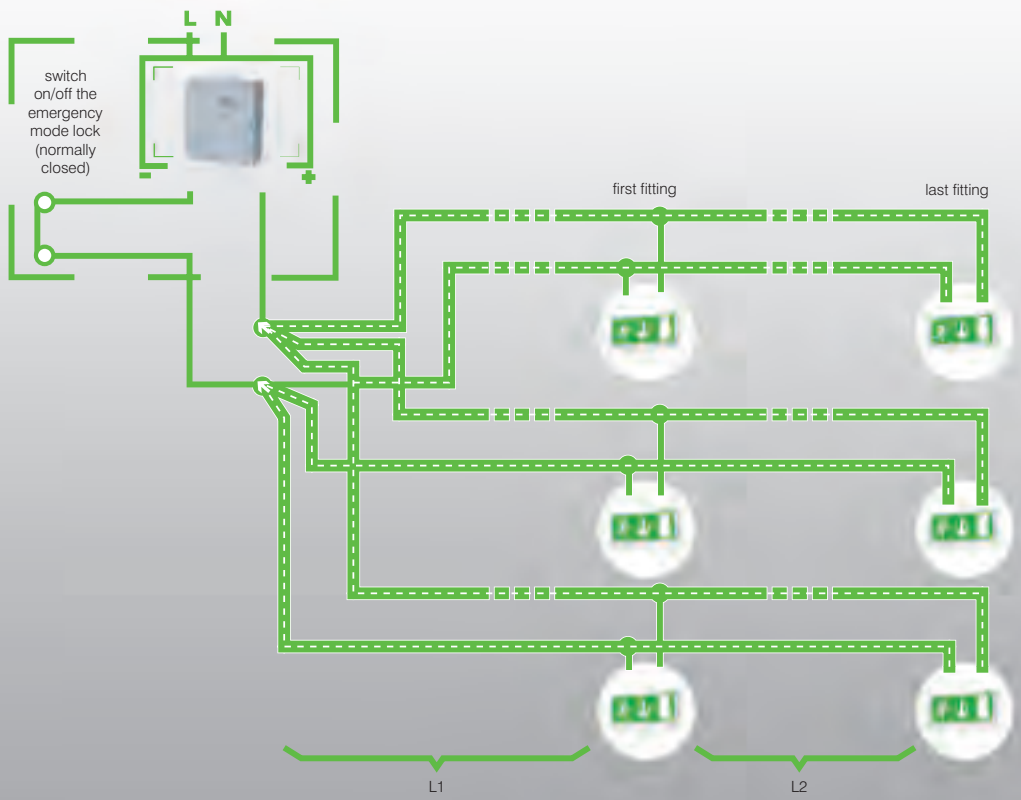
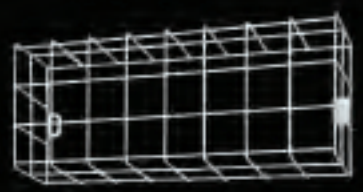
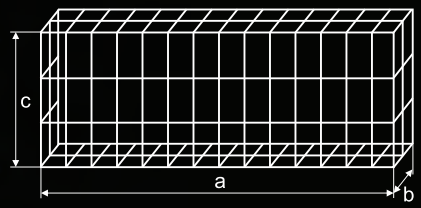
General connection diagram



accessories

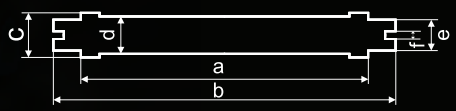
wire guards





Fitting name	Dimension [mm] axbxc	Weight [kg]
Helios	405x100x170	0,38
Emx	405x132x208	0,57
Panorama	410x80x205	0,44

batteries



Batteries			Dimension [mm] axbxcxdxexf	Weight [kg]
NiCd	1500mAh	3,6 V	133x159x26x22x18x4	0,150
		4,8 V	175x201x26x22x18x4	0,190
		6,0 V	218x243x26x22x18x4	0,235
NiCd	2500mAh	3,6 V	153x179x30x26x20x4	0,230
		4,8 V	200x227x30x26x20x4	0,300
		6,0 V	249x279x30x26x20x4	0,360
NiCd	4000mAh	3,6 V	184x208x36x33x25x4	0,375
		4,8 V	245x270x36x33x25x4	0,480
		6,0 V	303x327x36x33x25x4	0,585
NiMh	15000mAh	3,6 V	152x179x18x15x14x4	0,100
		4,8 V	201x226x18x15x14x4	0,125
		6,0 V	250x275x18x15x14x4	0,150
NiMh	2500mAh	3,6 V	133x159x26x22x18x4	0,180
		4,8 V	175x201x26x22x18x4	0,230
		6,0 V	218x243x26x22x18x4	0,280
NiMh	2500mAh	3,6 V	153x179x30x26x20x4	0,270
		4,8 V	200x227x30x26x20x4	0,345
		6,0 V	250x275x30x26x20x4	0,425
NiCd CYCLON	2500mAh	4,0 V	125x35*	0,375
		6,0 V	185x35*	0,550
	5000mAh	4,0 V	145x45*	0,735
		6,0 V	220x45*	1,095

* batteries' dimension are given without mounting handles i.e. length and diameter

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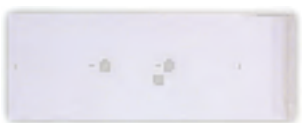
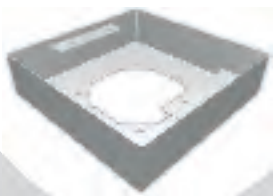
mounting accessories

Wall mounting bracket for HELIOS



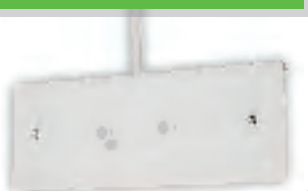
Ceiling mounting bracket with pipe for HELIOS

Polycarbonate distance for Lovato n



Wire rope suspension for TWINS, QUADRO, etc.

Ceiling mounting bracket with pipe for HELIOS



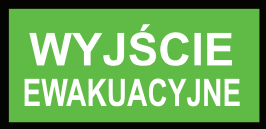
Under plastering clips for TIGER, TIGER DS, TIGER P

Polycarbonate body for Lovato p and Led Eye

pictograms


01


02



03

04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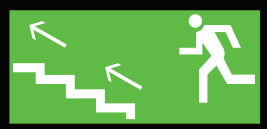
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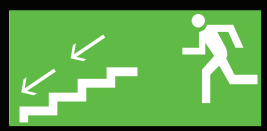
12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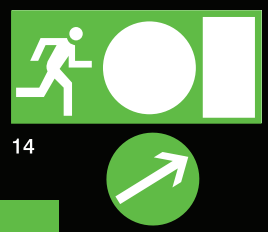
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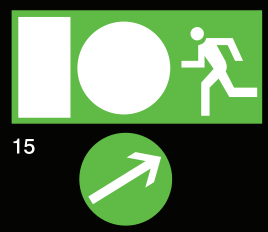
15

	small	medium	big
dimension [mm]	100 x 300	125 x 250	150 x 300
designed for	TG, TL, TGS, TSL	H, HE, HL, HEL, HD, HDE, HDL, HDEL, VR, VS	TP, TPL, HP, HPL, E, TW, PL, P , C,CS,IF, CW

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list of terms

SE - NON-MAINTAINED
The fitting is off when regular power is on. The fitting turns on after the power cut and stays on during the emergency operation time 1, 2 or 3 hours.

SA - MAINTAINED
The fitting is on when regular power is on. After the power is cut, it switches to the emergency mode and stays on during the emergency operation time 1, 2 or 3 hours.

PT - MANUAL TEST BUTTON
The fitting is equipped with a test button which allows one to run a test of emergency mode without switching off the regular power.

RS - RUBIC MONITORING SYSTEM
The fitting is equipped with an addressing module with a unique address compatibile with the RUBIC monitoring system.

AT - AUTOTEST
The fitting is equipped with an autonomous testing system.

CB - FOR CENTRAL BATTERY
The fitting is equipped with an electronic AC/DC ballast compatibile with any central battery system.

how to configure?

type	time [h]			work		option		power [W]			
SD	1	2	3	SE	SA	PT	RS	11	18	2x11	2x18
	1		2	3		4				5	

code: SD/2/SE/PT/2x11

module's selection table to light source

light source / cap		T8/G13				TC-SEL/2G7				TC-L/2G11					TC-DEL/G24q				T5/G5												TC-2D/ GR10q			TC-TEL/GX24q				
conversion kit	power [W] duration	18	30	36	58	5	7	9	11	18	24	36	40	55	10	13	18	26	6	8	13	14	21	24	28	35	39	49	54	80	16	28	38	13	18	26	32	42
Lider L/36, LE/36*	1/2/3	•	•	•	–	•	•	•	•	•	•	•	–	–	•	•	•	•	•	•	•	•	•	–	–	–	–	–	–	–	•	–	–	•	•	•	–	–
Lider L/58, LE/58*		•	•	•	•	•	•	•	•	•	•	•	–	–	•	•	•	•	•	•	•	•	•	•	•	–	–	–	–	–	•	•	•	•	•	•	•	•
Lider LE/80*		•	•	•	•	–	–	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

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information for reader

The pictures and the parameters of the products contained in this catalogue shall be considered only a commercial information and are not an offer within the meaning of the law. Some parameters of the delivered may differ from the parameters of the products in this catalogue. Appearance of some products may differ slightly from pictures and drawings represented in this catalogue. PPHU Awex reserves the right to withdraw products from catalogue or change their parameters.

notes

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