

Self-contained luminaires and monitoring



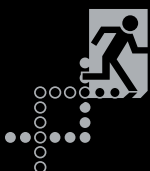
General information

This catalogue replaces all previously published catalogues, which hereby lose their validity. During the validity of this catalogue, we reserve the right to make technical and formal changes to our products to improve our products or to meet changes to statutory requirements. Up-to-date details can be supplied on request.

We supply all LED luminaires incl. LED-illuminant.

Industrial property rights exist for most of our products.

You can find the current product information on our homepage at www.inotec-licht.de



INOTEC Sicherheitstechnik GmbH

Innovative Emergency Lighting Technology

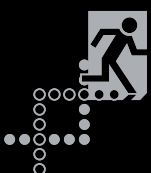


INOTEC Sicherheitstechnik GmbH is an innovative medium-sized company in Ense-Höingen, Westphalia with its own R&D department, production and a national and international sales and distribution.

A competent team ensures the reliable support in all questions concerning products, planning, service and standards with flexible and committed employees.

Since the foundation in 1995 the INOTEC Sicherheitstechnik GmbH developed into a globally operating company with over 230 employees. Additional jobs were created with the numerous partners within Europe and Middle East. The production, storage and administration buildings increased in Germany on up to 14.000 m².

Nowadays INOTEC Sicherheitstechnik GmbH is one of the leading producers of emergency and safety lighting. Modern, innovative and high-quality products „Made in Germany“ set new standards world-wide, such as the decentralised emergency lighting system CLS 24, the central battery units with JOKER-technology and the dynamic escape route guidance system D.E.R. .



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BNP 7460.1



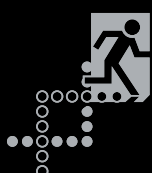
BN 6204



BNP/V 2230



BNP/V 2130

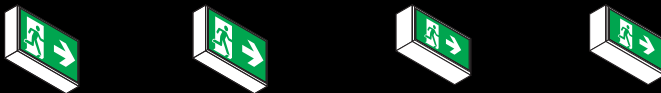


www.inotec-licht.de

Regulations and standards
INOTEC self-contained luminaires
Made in Germany



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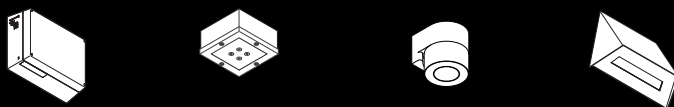
BNP 828.1 BNP 808.1 Stainless steel luminaires



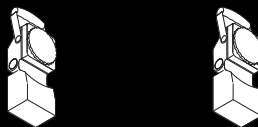
BNP 1006 BNP 2230 BNP 2130 Moulded plastic luminaires



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INOLux LED INOLux EX LED Hand lamps



INOView INOWeb BNS-MTB Central monitoring display



Regulations and standards

What you need to know about emergency luminaires and exit signs

The following pages list the regulations and standards that apply to safety and emergency exit luminaires. These can be divided into lighting and electrical standards.



Lighting standards

EN 1838	Lighting applications. Emergency lighting (10/13)
DIN 4844-1 / ISO3864	Graphical symbols - Safety colours and safety signs (06/12)
DIN 4844-2	Graphical symbols - Safety colours and safety signs (12/12)
DIN 4844-3	Graphical symbols - Safety colours and safety signs (09/03)
ASR A1.3	Health and safety signs (02/13)
ISO 7010	Graphical symbols - Safety colours and safety signs (10/12)

Electrical standards

EN 60598-1	Luminaires – Part 1: General requirements and tests (09/09)
EN 60598-2-22	Luminaires – Part 2-22: Particular requirements – Luminaires for emergency lighting (10/08)
DIN EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (11/09)

EN 1838 of 10/13

When the emergency lighting is in operation, the luminance of the safety colour must be at least 2 cd/m^2 at every point of the sign.

The colours must meet the requirements of ISO 3864.

A lamp's colour-rendering index, R_a , must be equal to at least 40.

The ratio of the luminance L_{contrast} to the luminance L_{safety} colour must be no less than 15:1 and no more than 5:1.

The ratio of the maximum luminance to the minimum luminance has to be less than 10:1 either within the white surface or within the safety colour.

Safety and emergency exit luminaires must be backlit or illuminated in case of emergency lighting. Photoluminescent safety and emergency exit luminaires are therefore not permitted in emergency lighting.

The standard's lighting requirements must be met in terms of (minimum) maintained illuminance and must also still be met at the end of the individual components' expected life cycle.

Emergency lighting design must be based on the worst ambient conditions for the total expected life cycle, e.g. greatest glare effect and lowest luminous flux (recessed luminaires, electronic ballasts with reduced luminous flux, etc.).

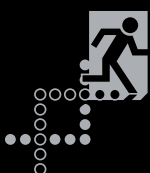
In the case of direct luminaires, only the direct light is to be assessed. Reflected light from the surfaces delimiting the space must be disregarded.

In the case of direct illumination as downlights, only the direct light has to be assessed, every reflection has to be neglected.

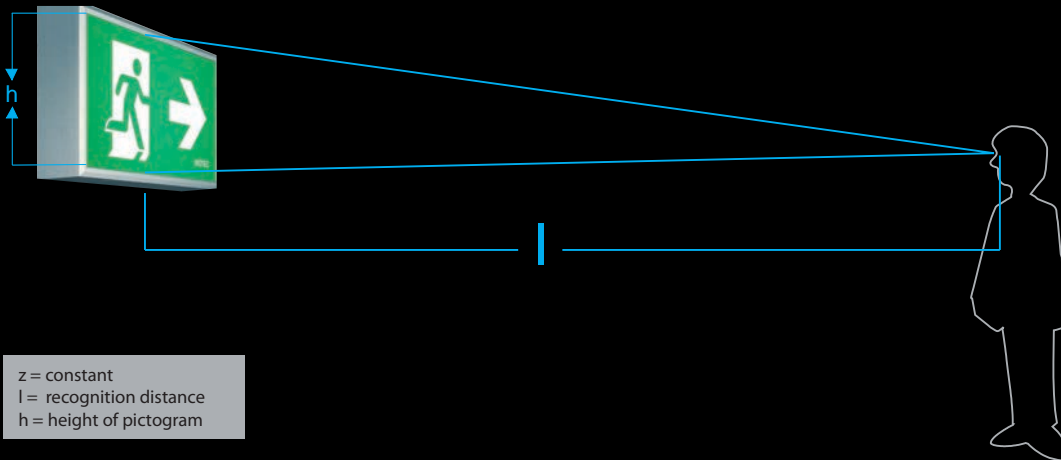
In the case of indirect illumination as ceiling floodlights, only the first can be taken into consideration.

If possible, exit signs should be positioned within a 20° viewing angle above normal viewing height depending on the viewing distance of the sign.

Example: 2m-tall viewer
 $VD \ 20\text{m} \rightarrow h_{\text{max}} = 9.2\text{m}$
 $VD \ 35\text{m} \rightarrow h_{\text{max}} = 14.7\text{m}$



**Recognition distance under EN 1838 of 10/13
and DIN 4844-1 of 06/12**



z = constant
l = recognition distance
h = height of pictogram

Calculation formula: $l = z \cdot h$

z = 100 - for illuminated signs, but only when the illuminance on the surface of the sign is $E \geq 50lx$.

z = 200 - for backlit signs (pictogram luminaires), but only when the luminance is $L \geq 500cd/m^2$ in mains operation.

Rule of thumb:

Pictogram signs need to be twice as large as pictogram luminaires at the same viewing distance

Note:

With the luminance $L=500 cd/m^2$ given above, the pictogram should be sufficiently recognisable in bright surroundings. In order to avoid glare effects, the luminance needs to be reduced in dark surroundings, for instance by the use of INOTEC pictogram luminaires with adjustable light output in monitored LED technology.

Emergency exit luminaires under ISO 7010 of 10/12 and ASR A1.3 of 02/13

Examples



The arrows may only be used in conjunction with an additional emergency exit luminaire and vice-versa. The arrows may be rotated in 45° increments.

New or old pictograms?

Permitted pictograms:

Before Oct. 2012

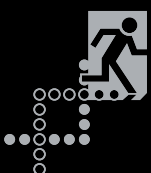


New



- rounded hands and feet
- more compact arrow

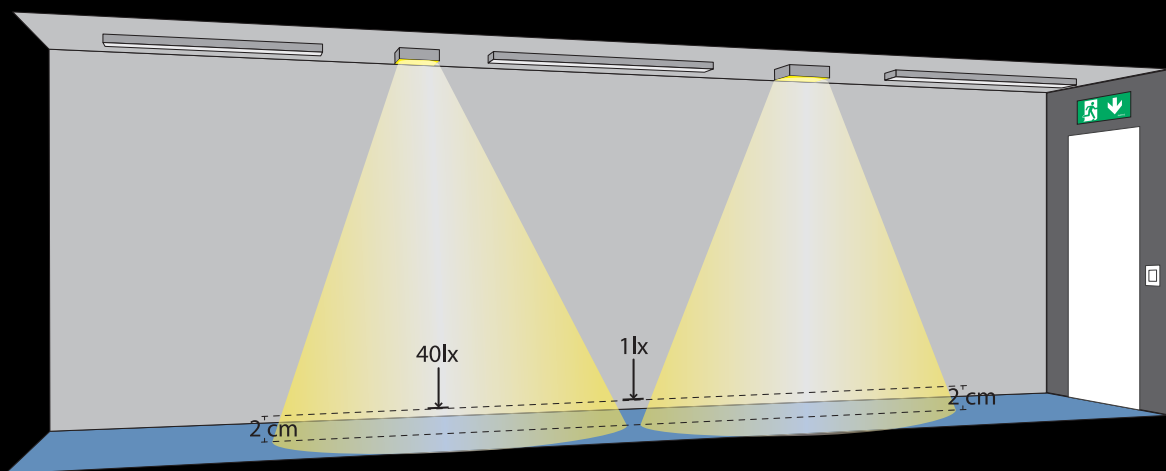
The meaning of the previous pictograms is still perfectly clear and they still comply with the design principles of DIN 4844-1 of 06/12 and ISO 3864-1 of 06/12. They can therefore continue to be used. New and old pictograms should not be mixed together and should be used consistently throughout a location. The replacement of "old" pictograms with "old", e.g. in the case of dirt or failure, is permitted.



Safety lighting for escape routes

For escape routes with a width of up to 2m, the horizontal illuminance on the floor along the center line must not be less than 1 lx. The central area, corresponding to no less than half the width of the escape route, must be illuminated with at least 50% of this value.

The ratio of the maximum illuminance to the minimum illuminance must not exceed 40:1 along the central line of the emergency route.



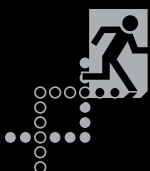
Lighting requirements

Type of lighting	Required illuminance	Uniformity (E _{min} /E _{max})
Safety lighting for escape routes:	1 Lux (*1) along the central line of the escape route	1:40
Safety lighting for hazardous areas:	10% of general lighting, minimum 15 Lux (*2)	1:10
Open space lighting:	Minimum 0.5 Lux (*1) on the free floor surface	1:40

Type of lighting	Rated operating time	E _{min} provision
Safety lighting for escape routes:	At least 1 hour	50% of E _{min} within 5 seconds, 100% within 60s (for German workplaces, 100% within 15s)
Safety lighting for hazardous areas:	The rated operating time must correspond to the length of time for which danger exists for humans (*2)	The required illuminance must be permanently present or achieved within 0.5 seconds
Open space lighting:	At least 1 hour	50% of E _{min} within 5 seconds, 100% within 60s

(*1) Measurement plane $\leq 2\text{cm}$ above the floor.

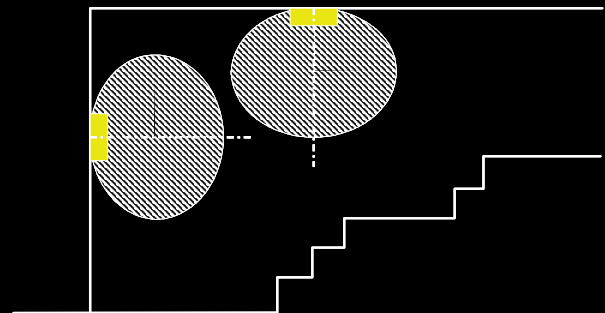
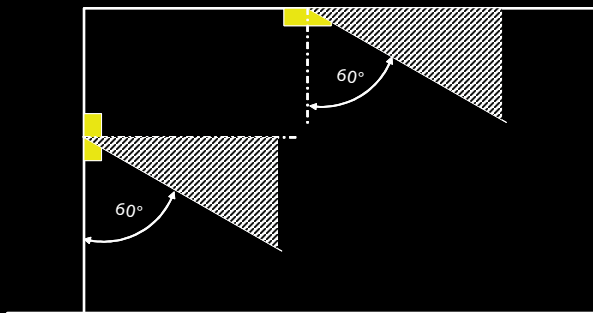
(*2) The assessment is the responsibility of the operator.



Physiological glare

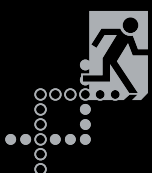
Physiological glare must be kept low by limiting the luminosity of the luminaires within the field of vision.

For escape routes that run horizontally, the luminosity within an area of 60° to 90° to the vertical must not exceed the values in the table for all azimuth angles. For all other escape routes and open areas, the limits must not be exceeded for any angle.



Limits for physiological glare

Installation height above the ground h	Maximum luminosity for escape-route safety lighting and open space lighting I_{max}	Maximum luminosity for safety lighting for hazardous areas I_{max}
m	cd	cd
$h < 2.5$	500	1000
$2.5 \leq h < 3.0$	900	1800
$3.0 \leq h < 3.5$	1600	3200
$3.5 \leq h < 4.0$	2500	5000
$4.0 \leq h < 4.5$	3500	7000
$h \geq 4.5$	5000	10,000



Points to be highlighted according to EN 1838 10/2013



at least 2m above the ground

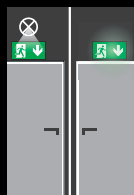
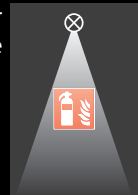


close to (*1) each first-aid station (*2)

at each exit door which can be used in emergency



close to (*1) any firefighting or alarm device



Safety signs and directional emergency escape route signs have to be illuminated or backlit in emergency mode. Photoluminescent signs are not allowed.



close to (*1) evacuation devices for handicapped people

close to (*1) stairs, in order to illuminate each step directly



close to (*1) safe areas for handicapped people and intercoms for these, as well as alarm devices for disabled toilets

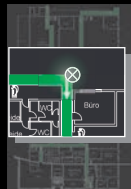


close to (*1) any level change within the escape route

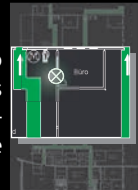


anti-panic lighting in disabled toilets

at each change of direction



anti-panic lighting on paths to areas where safety lighting is required, but not directly adjacent to an escape route



at each intersection of corridors / passages

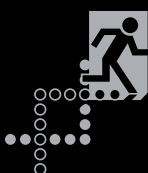
*1 max. 2m horizontal distance
*2 vertical illuminance 5lx

outside and close to (*1) every emergency exit door up to a safe area



Electrical standards

The electrical standards are taken into account in INOTEC's own construction and development and monitored by our quality control. We guarantee that all INOTEC luminaires comply with the current standards and regulations. You can find the corresponding declarations of conformity on our homepage.



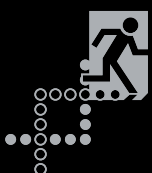
Made in Germany One-stop quality

At INOTEC, you can fulfil all your emergency lighting requirements from a single source - and with the quality that comes from being made in Germany. We choose Germany as a business location not only for the development and design of our products but also for their manufacture.

To meet our own high demands and those of our customers, we focus on:

- Customer-oriented development
- Latest technologies
- Constant optimisation and development of our products
- Quality suppliers

At the same time, the safety our products stand for is one of our most important quality features. INOTEC also means innovative luminaire design and high-quality workmanship. Because of the high level of responsibility placed on our products, quality assurance is a particular priority for INOTEC. Thanks to our intensive quality management, we are able to guarantee the optimum safety and long-lasting, problem-free functionality of our products.

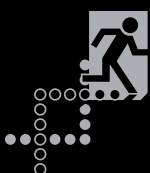
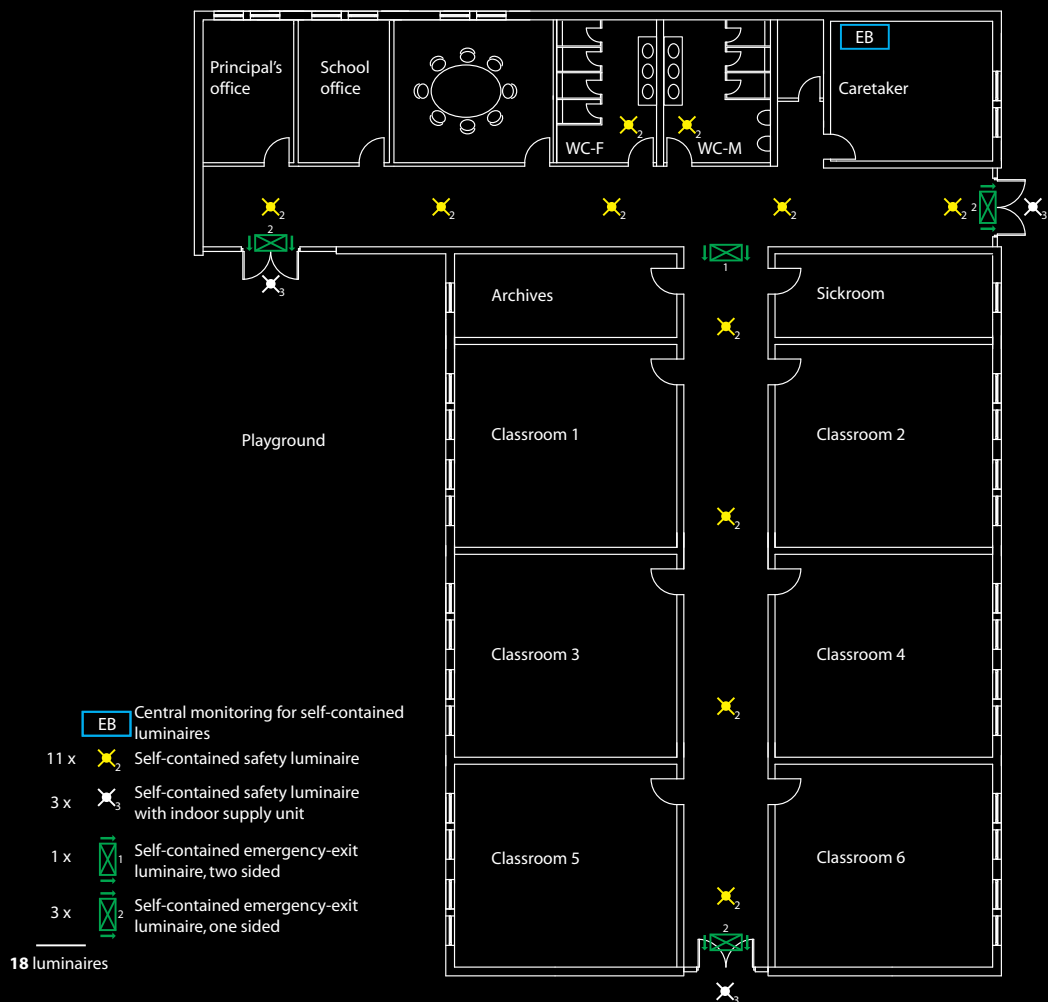


Self-contained installations

A practical example of standards-compliant self-contained installations

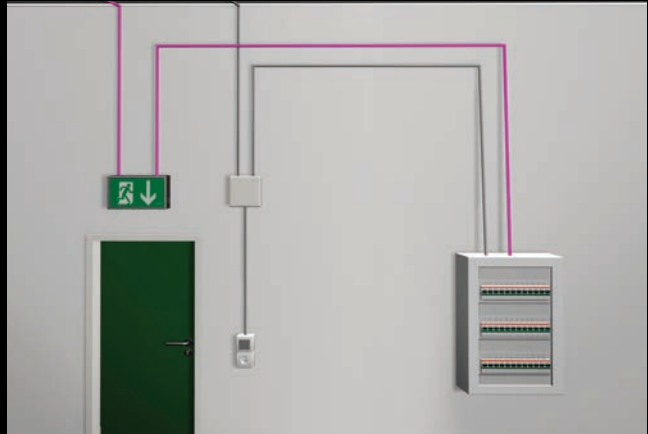
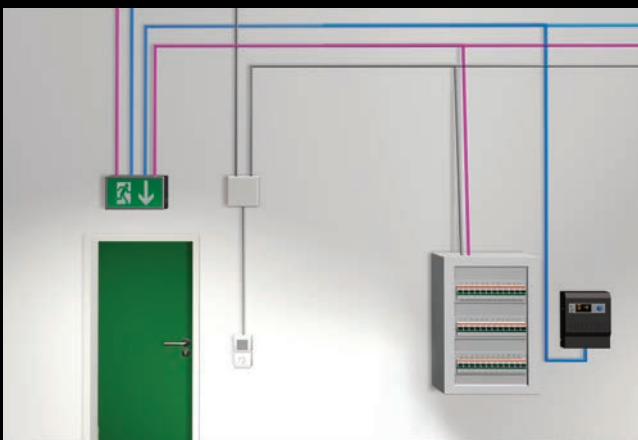
In smaller projects, self-contained safety luminaires are often used to create the required safety lighting. Because of incorrect installations and a lack of knowledge about standards-compliant wiring, in many cases the desired protection is not achieved.

Project example: primary school



One of the common installation failures is to connect self-contained luminaires to any, non-switched phase or to connect them to a separate fused circuit.

In case of a general lighting phase failure the self-contained luminaires will not switch on and the protective goal is not achieved.

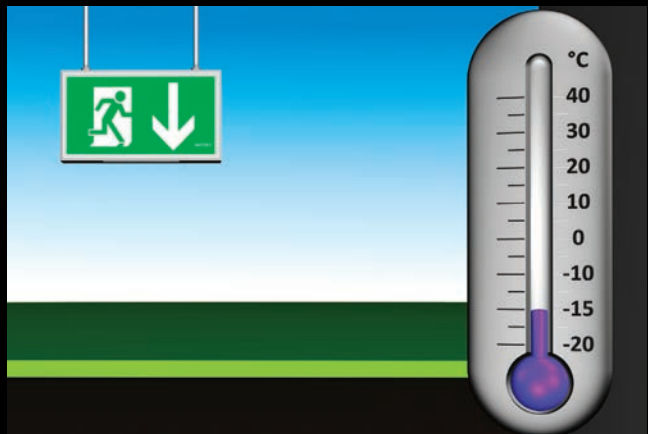


To avoid unintentionally discharged batteries the DIN VDE 0100-718 10/2005 requires to block the emergency- and safety- lighting when a building is not occupied.

Without the use of a central monitoring like the BNS-MTB self-contained luminaires are not fulfilling the required standard.

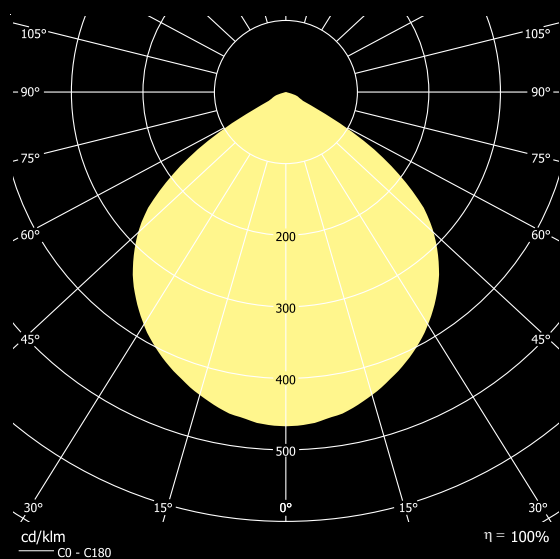
Due to the extreme variations in temperature throughout a year the battery lifetime / -capacity is reduced dramatically.

The only reasonable technical solution is to outsource the battery and electronics to the interior of the building (see BN/V luminaires page 59).

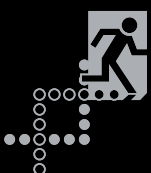


An important aspect to take care of is the reduction of luminous flux in emergency operation.

Particularly in projects with several hours rated duration significantly more luminaires have to be installed to achieve the required 1 lx within the escape route.



Alternatively we recommend to use the decentralised emergency lighting system CLS24. For more information please visit <http://www.inotec-licht.de>.



INOTEC self-contained luminaires

The most up-to-date technology for your safety

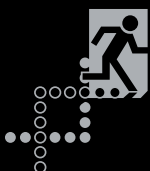
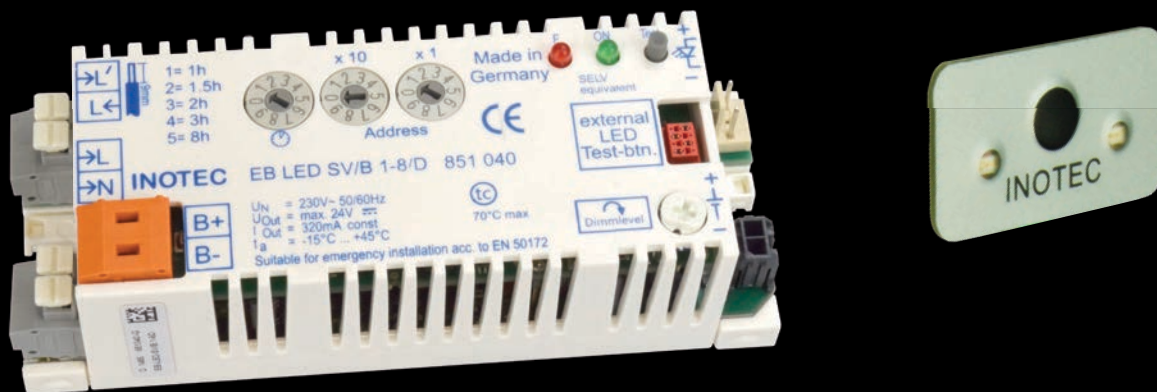
LED technology

The new range of INOTEC self-contained luminaires consists entirely of luminaires with LED technology. We are not simply following a trend with this: we have always been pioneers in this technology. With the new EB LED SV/B 1-8/D module, we are now making full use of all the possibilities of LED technology.



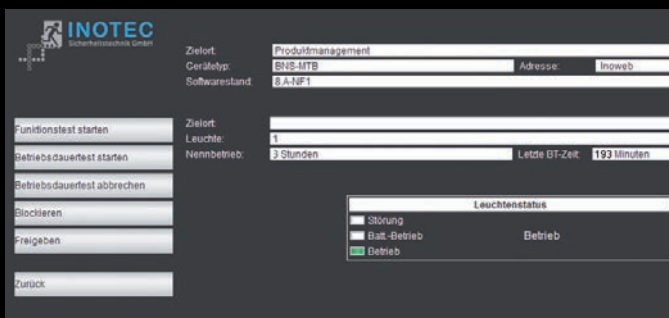
The new EB LED SV/B 1-8/D module

The new electronics contain all the functions that are expected of a state-of-the-art self-contained luminaire. All the luminaires have variable settings for their rated operating time (1h, 1.5h, 2h, 3h and 8h) and are naturally suitable for maintained and non-maintained light, and switched maintained light. In addition, the EB LED SV/B 1-8/D module offers the possibility of dimming the luminaires steplessly in maintained light. The luminaire automatically carries out all the necessary tests, reducing maintenance to a minimum.



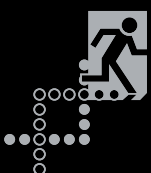
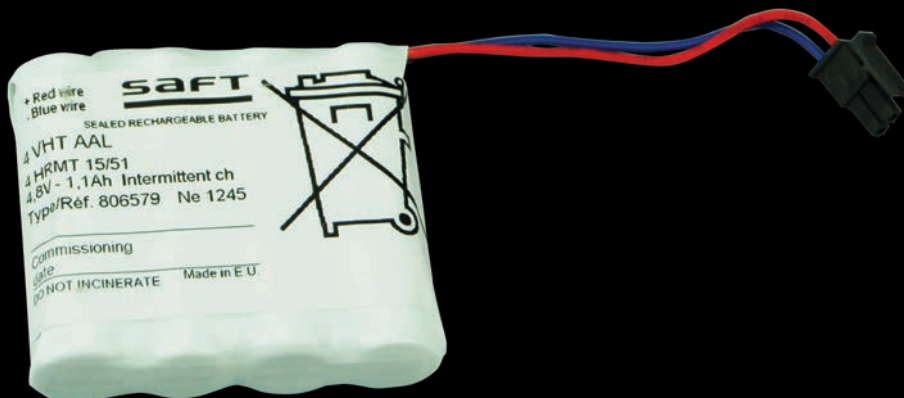
Monitoring

The possibility of monitoring the luminaires comes as standard with INOTEC self-contained luminaires. All the luminaires come ready to be connected to a higher-level monitoring device and can be monitored by a BNS-MTB, and even displayed using InoWeb.



NiMH batteries

Only state-of-the-art high-temperature nickel metal hydride (NiMH) batteries are used in our new self-contained luminaires. These not only offer twice the energy density of nickel cadmium (NiCD) batteries but also do not contain the toxic heavy metal cadmium. This protects the environment.





Edge lights

Highlighting modern internal architecture

INOTEC edge lights with free-hanging pictogram panels do not just provide faultless safety technology but also add the perfect finishing touch to your interiors.

With forward-looking technologies and high-quality materials in an elegant design, these luminaires set new standards for functionality, flexibility and DIN-compliant illumination.



Advantages

- Attractive design
- Easily interchangeable pictogram panels

Areas of application

- Public buildings with attractive interior architecture
- Offices
- Shopping areas
- Congress centres
- VIP areas
- Hotels
- etc.

BNP 1116.1
BNP 1118.1

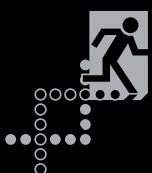


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BNP 1012
BNP 1013



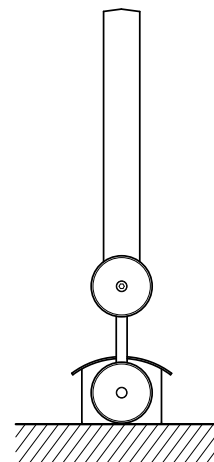
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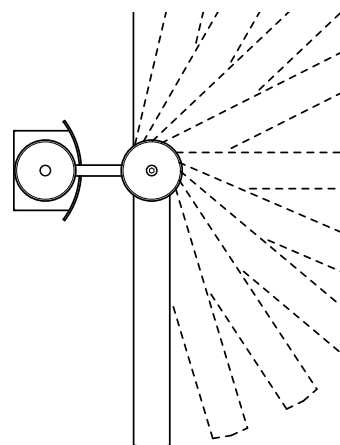
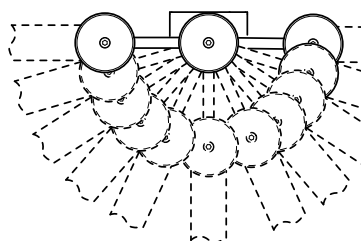
Finishing touches

The INOTEC edge lights BNP 1116.1 and BNP 1118.1 will win you over with their operation, luminosity, service life and design. The adjustable pictogram makes these high-quality stainless steel luminaires particularly versatile and suitable for almost any type of mounting. It means that you can find the ideal solution for any wall and interior space.

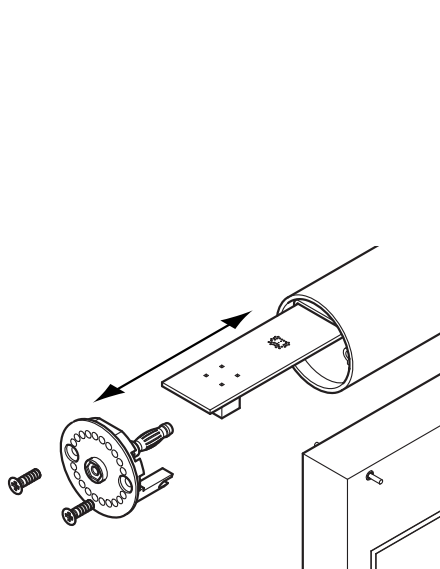


Upside-down - seen this before?

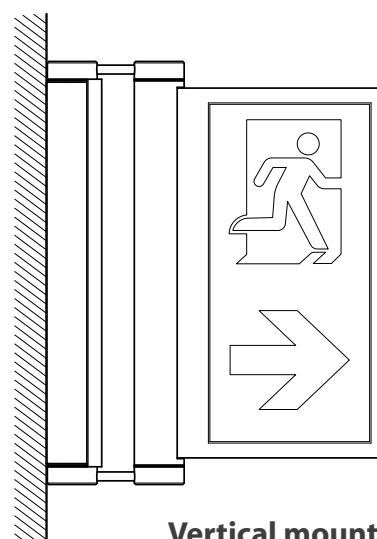
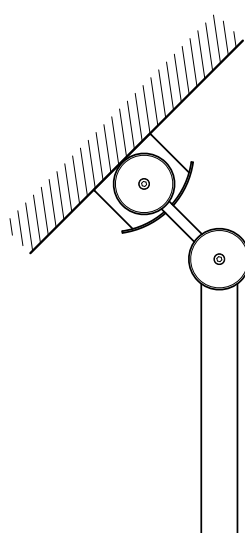
**With this LED luminaire,
(almost) anything is possible**



Sloping walls - had these before?



Particularly with high-quality luminaires, it is important to be able to change the LED. With the edge lights BNP 1116.1 and 1118.1, the LED strip can be easily pulled out of the pictogram panel by simply loosening two screws.



**Vertical mounting -
thought of it before?**



BNP 1116.1 LED

Edge lights

Self-contained LED luminaires with bus-connection to BNS-MTB

High quality LED edge lights made of brushed stainless steel.

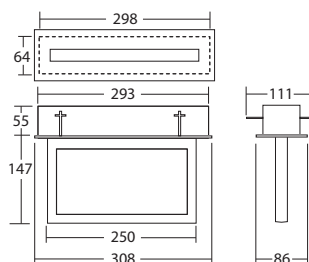
Technical data

Viewing distance :	22 m
Material :	Stainless steel A4 brushed
Illuminant :	LEDs
Nominal voltage AC :	230V ± 10%, 50/60Hz
Power consumption :	4.8 VA
Terminals :	2.5mm ²
Temperature ta :	M - light: -5°C... +35°C NM - light: 0°C... +40°C
Protection category :	IP20
Protection class :	I
Rated duration :	1h / 1.5h / 2h / 3h / 8h
Battery type :	Ni-MH 4.8V 1.1Ah (Art. no. 890014)

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and DIN EN 1838

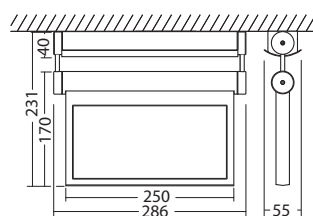
BNP 1116.2 E SV/B LED - 1-8/D Recessed ceiling mounting

Art.no. 821 086.2



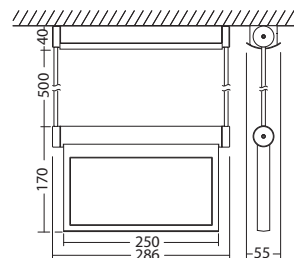
BNP 1116.1 SV/B LED - 1-8/D Wall or ceiling mounting

Art.no. 821 087



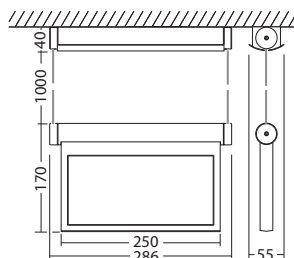
BNP 1116.1 P SV/B LED - 1-8/D Pendulum mounting

Art.no. 821 088



BNP 1116.1 S SV/B LED - 1-8/D Cable suspension mounting

Art.no. 821 089



BNP 1118.1 LED

Edge lights

Self-contained LED luminaires with bus-connection to BNS-MTB

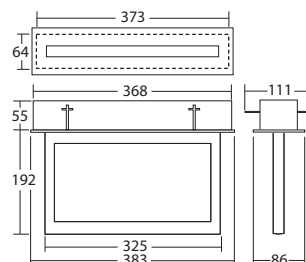
High quality LED edge lights made of brushed stainless steel.

Technical data

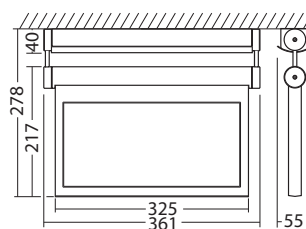
Viewing distance :	30 m
Material :	Stainless steel A4 brushed
Illuminant :	LEDs
Nominal voltage AC :	230V ± 10%, 50/60Hz
Power consumption :	6.2 VA
Terminals :	2.5mm ²
Temperature ta :	M - light: -5°C... +35°C NM - light: 0°C... +40°C
Protection category :	IP20
Protection class :	I
Rated duration :	1h / 1.5h / 2h / 3h / 8h
Battery type :	Ni-MH 4.8V 1.1Ah (Art. no. 890014)

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and DIN EN 1838

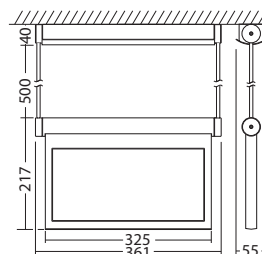
BNP 1118.2 E SV/B LED - 1-8/D Recessed ceiling mounting
Art.no. 821 096.2



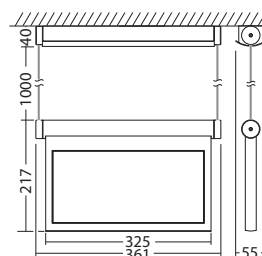
BNP 1118.1 SV/B LED - 1-8/D Wall or ceiling mounting
Art.no. 821 097



BNP 1118.1 P SV/B LED - 1-8/D Pendulum mounting
Art.no. 821 098



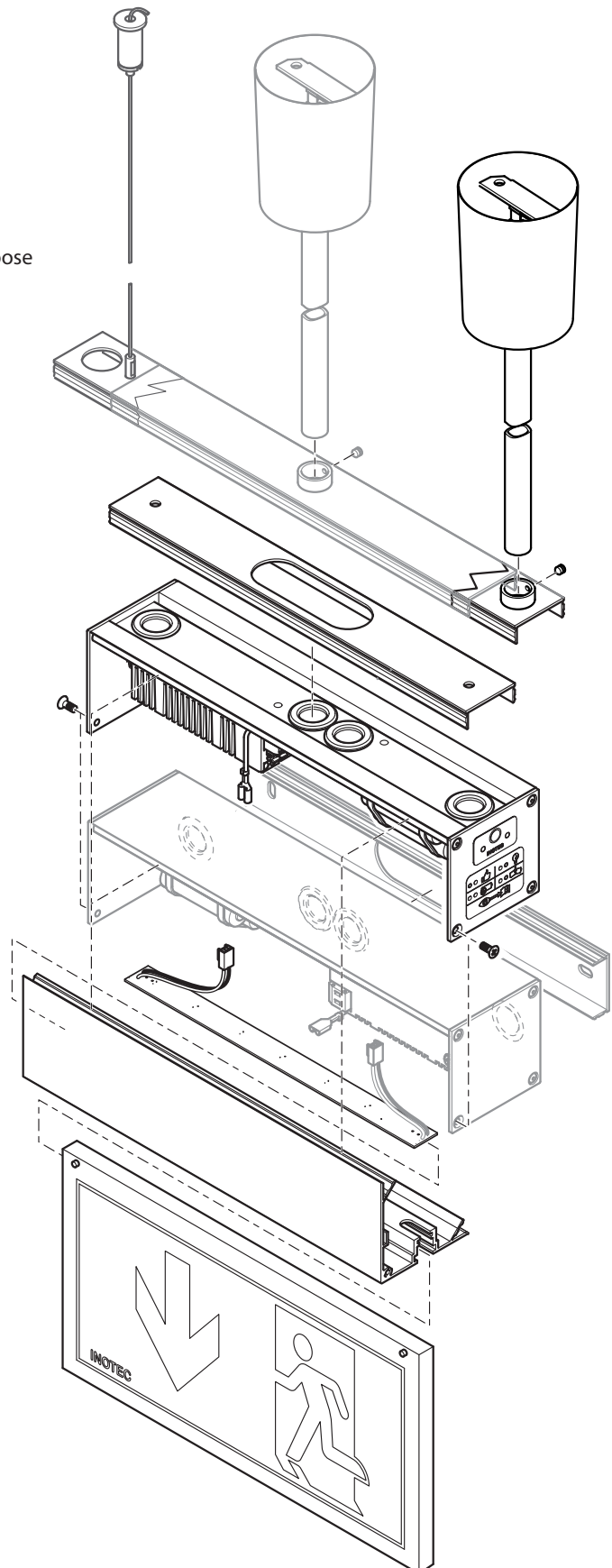
BNP 1118.1 S SV/B LED - 1-8/D Cable suspension mounting
Art.no. 821 099





Self-contained edge light BNP 1012 / 1013

The edge lights BNP 1012 and BNP 1013 with a high-quality aluminium frame captivate with their versatility and simple installation.
Thanks to their ingenious, rotatable frame, you can easily choose between ceiling mounting and parallel-to-wall mounting.



Universal edge lights made of aluminum profile.

Technical data

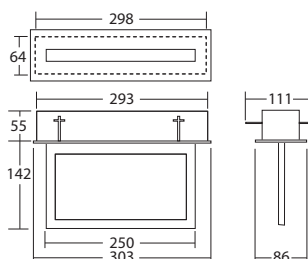
- Viewing distance :** 22 m
- Material :** Aluminum
- Illuminant :** LEDs
- Nominal voltage AC :** 230V ± 10%, 50/60Hz
- Power consumption :** 5.9 VA
- Terminals :** 2.5mm²
- Temperature ta :** M - light: -5°C... +35°C
NM - light: 0°C... +40°C
- Protection category :** IP40
- Protection class :** I
- Rated duration :** 1h / 1.5h / 2h / 3h / 8h
- Battery type :** Ni-MH 4.8V 1.1Ah
(Art. no. 890 104)

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and DIN EN 1838

BNP 1012 E SV/B LED - 1-8/D

Art.no.821 198

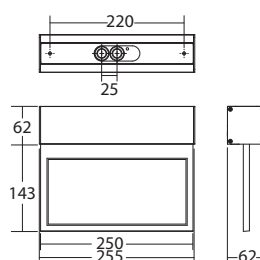
Recessed ceiling mounting



BNP 1012 SV/B LED - 1-8/D

Art.no.821 196

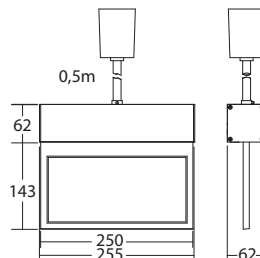
Wall or ceiling mounting



BNP 1012 P SV/B LED - 1-8/D

Art.no.821 197

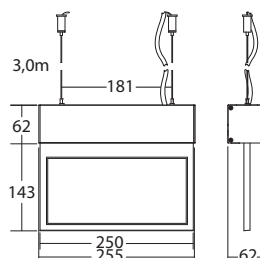
Pendulum mounting



BNP 1012 S SV/B LED - 1-8/D

Art.no.821 199

Cable suspension mounting



Universal edge lights made of aluminum profile.

Technical data

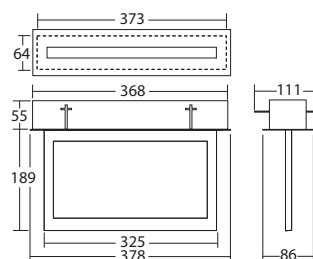
Viewing distance :	30 m
Material :	Aluminum
Illuminant :	LEDs
Nominal voltage AC :	230V ± 10%, 50/60Hz
Power consumption :	6.8 VA
Terminals :	2.5mm ²
Temperature ta :	M - light: -5°C... +35°C NM - light: 0°C... +40°C
Protection category :	IP40
Protection class :	I
Rated duration :	1h / 1.5h / 2h / 3h / 8h
Battery type :	Ni-MH 4.8V 1.1Ah (Art. no. 890 104)

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and
DIN EN 1838

BNP 1013 E SV/B LED - 1-8/D

Art.no. 821 202

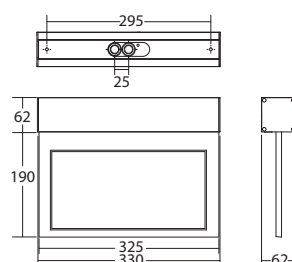
Recessed ceiling mounting



BNP 1013 SV/B LED - 1-8/D

Art.no. 821 200

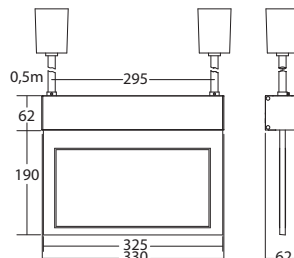
Wall or ceiling mounting



BNP 1013 P SV/B LED - 1-8/D

Art.no. 821 201

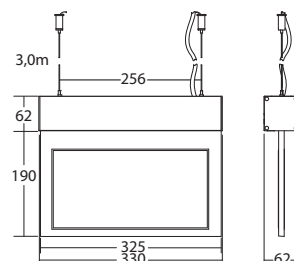
Pendulum mounting



BNP 1013 S SV/B LED - 1-8/D

Art.no. 821 203

Cable suspension mounting





Aluminium luminaires

The all-rounder

The standout feature of INOTEC aluminium luminaires is the enormous number of application possibilities. Due to their range of housing sizes and the option of different colours, these aluminium luminaires can be configured to suit any building's interior design.

Advantages

- Attractive design
- Easily interchangeable pictogram panels
- Tool-free opening

Areas of application

- Public buildings with attractive interior architecture
- Offices
- Shopping areas



BNP 7186.1/7286.1

28



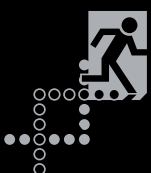
BNP 7188.1/7288.1

30



BNP 7460.1

33



BNP 7186.1 LED

Aluminium profile luminaires

Self-contained LED luminaires with bus-connection to BNS-MTB

Single sided aluminum profile luminaires with light output bottomsides.

BNP 7186.1 SV/B LED - 1-8/D

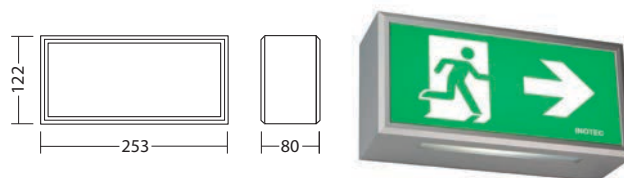
Wall mounting

Art.no. 827 036

Technical data

Viewing distance :	20 m
Material :	Aluminum
Illuminant :	LEDs
Nominal voltage AC :	230V \pm 10%, 50/60Hz
Power consumption :	5.9 VA
Terminals :	2.5mm ²
Temperature ta :	M - light: -5°C... +35°C NM - light: 0°C... +40°C
Protection category :	IP40
Protection class :	I
Rated duration :	1h / 1.5h / 2h / 3h / 8h
Battery type :	Ni-MH 4.8V 1.1Ah (Art. no. 890014)

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and DIN EN 1838



Pictograms exchangeable without tools

Housing-colours	Part.no.	Colour code
Special colours	...	L99
Attach the colour code to part number e.g.	800 014	LXX



BNP 7286.1 LED

Aluminium profile luminaires

Self-contained LED luminaires with bus-connection to BNS-MTB

Double sided aluminum profile luminaires with light output bottomside.

Technical data

Viewing distance :	20 m
Material :	Aluminum
Illuminant :	LEDs
Nominal voltage AC :	230V ± 10%, 50/60Hz
Power consumption :	7.5 VA
Terminals :	2.5mm ²
Temperature ta :	M - light: -5°C... +35°C NM - light: 0°C... +40°C
Protection category :	IP40
Protection class :	I
Rated duration :	1h / 1.5h / 2h / 3h / 8h
Battery type :	Ni-MH 4.8V 1.1Ah (Art. no. 890014)

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and DIN EN 1838

Pictograms exchangeable without tools

Housing-colours	Part.no.	Colour code
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Special colours	...	L99
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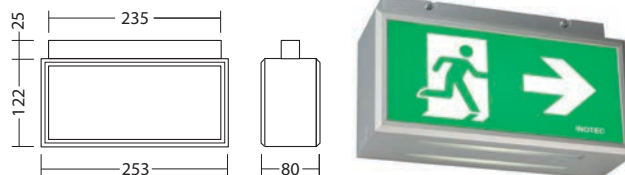
Attach the colour code to part number e.g.

800 014	LXX
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BNP 7286.1 D SV/B LED - 1-8/D

Art.no. 827 084

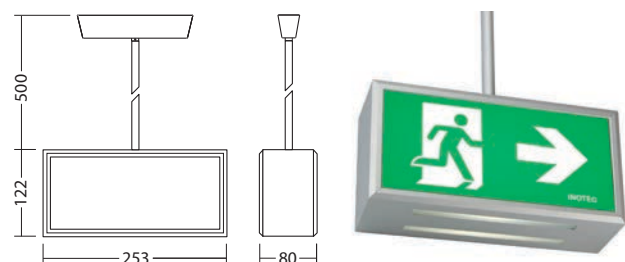
Ceiling mounting



BNP 7286.1 P SV/B LED - 1-8/D

Art.no. 827 086

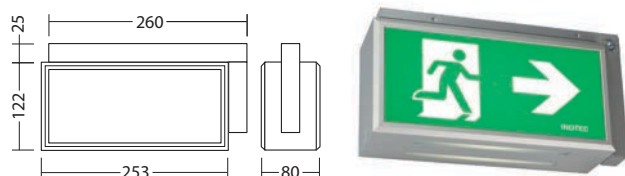
Pendulum mounting



BNP 7286.1 WA SV/B LED - 1-8/D

Art.no. 827 085

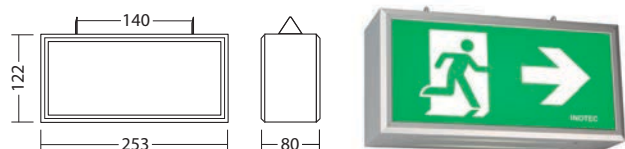
Wall bracket mounting



BNP 7286.1 K SV/B LED - 1-8/D

Art.no. 827 087

Chain mounting



BNP 7188.1 LED

Aluminium profile luminaires

Self-contained LED luminaires with bus-connection to BNS-MTB

Single sided aluminum profile luminaires with light output bottomside.

BNP 7188.1 SV/B LED - 1-8/D

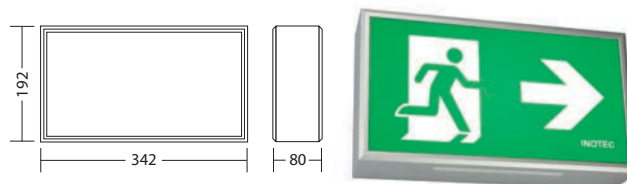
Wall mounting

Art.no. 827 216

Technical data

Viewing distance :	35 m
Material :	Aluminum
Illuminant :	LEDs
Nominal voltage AC :	230V ± 10%, 50/60Hz
Power consumption :	7.5 VA
Terminals :	2.5mm ²
Temperature ta :	M - light: -5°C... +35°C NM - light: 0°C... +40°C
Protection category :	IP40
Protection class :	I
Rated duration :	1h / 1.5h / 2h / 3h / 8h
Battery type :	Ni-MH 4.8V 1.1Ah (Art. no. 890014)

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and DIN EN 1838



Pictograms exchangeable without tools

Housing-colours	Part.no.	Colour code
Special colours	...	L99
Attach the colour code to part number e.g.	800 014	LXX



BNP 7288.1 LED

Aluminium profile luminaires

Self-contained LED luminaires with bus-connection to BNS-MTB

Double sided aluminum profile luminaires with light output bottomside.

Technical data

Viewing distance :	35 m
Material :	Aluminum
Illuminant :	LEDs
Nominal voltage AC :	230V ± 10%, 50/60Hz
Power consumption :	8.5 VA
Terminals :	2.5mm ²
Temperature ta :	M - light: -5°C... +35°C NM - light: 0°C... +40°C
Protection category :	IP40
Protection class :	I
Rated duration :	1h / 1.5h / 2h / 3h / 8h
Battery type :	Ni-MH 4.8V 1.1Ah (Art. no. 890014)

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and DIN EN 1838

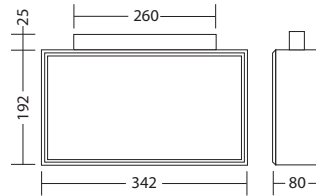
Pictograms exchangeable without tools

Housing-colours	Part.no.	Colour code
Special colours	...	L99
Attach the colour code to part number e.g.	800 014	LXX

BNP 7288.1 D SV/B LED - 1-8/D

Art.no. 827 368

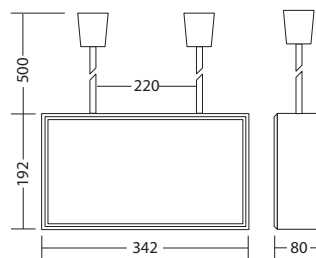
Ceiling mounting



BNP 7288.1 P SV/B LED - 1-8/D

Art.no. 827 370

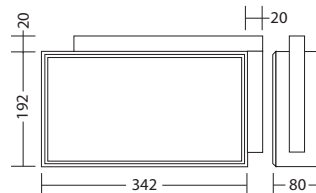
Pendulum mounting



BNP 7288.1 WA SV/B LED - 1-8/D

Art.no. 827 369

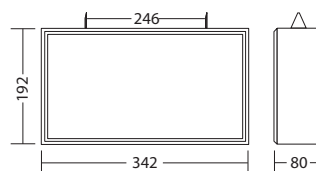
Wall bracket mounting



BNP 7288.1 K SV/B LED - 1-8/D

Art.no. 827 371

Chain mounting





Schulungszentrum
→



BNP 7460.1 LED

Aluminium profile luminaires

Self-contained LED luminaires with bus-connection to BNS-MTB

Cubic exit luminaires made of aluminum profile.

Technical data

Viewing distance :	35 m
Material :	Aluminum
Illuminant :	LEDs
Nominal voltage AC :	230V ± 10%, 50/60Hz
Power consumption :	8.5 VA
Terminals :	2.5mm ²
Temperature ta :	M - light: -5°C... +35°C NM - light: 0°C... +40°C
Protection category :	IP40
Protection class :	I
Rated duration :	1h / 1.5h / 2h / 3h / 8h
Battery type :	Ni-MH 4.8V 1.1Ah (Art. no. 890014)

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and DIN EN 1838

Housing-colours	Part.no.	Colour code
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Special colours	...	L99
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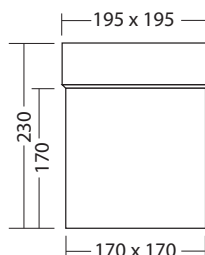
Attach the colour code to part number e.g.

800 014	LXX
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BNP 7460.1 D SV/B LED - 1-8/D

Art.no.827 919

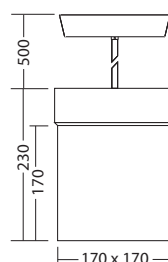
Ceiling mounting



BNP 7460.1 P SV/B LED - 1-8/D

Art.no.827 920

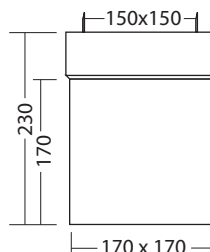
Pendulum mounting



BNP 7460.1 K SV/B LED - 1-8/D

Art.no.827 921

Chain mounting





Stainless steel luminaires

Robust luminaires with a high protection rating

INOTEC's stainless-steel luminaires are suitable for use wherever high protection ratings and robust luminaire designs are needed.

Advantages

- Robust housing in A4 brushed stainless steel
- Protection ratings IP54 / IP65

Areas of application

- Food industry
- High-risk task areas
- etc.



BNP 808.1

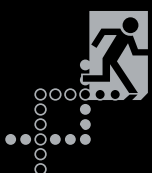


36

BNP 828.1



37



BNP 808.1 LED

Stainless steel luminaires

Self-contained LED luminaires with bus-connection to BNS-MTB

Single sided exit luminaires made of robust stainless steel with high protection category.

BNP 808.1 SV/B LED - 1-8/D

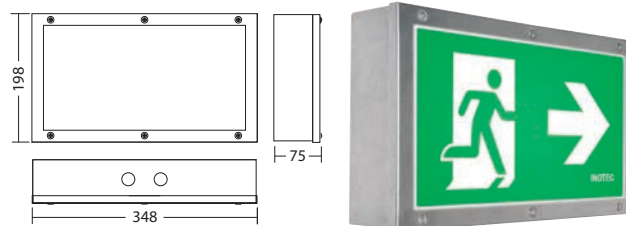
Wall mounting

Art.no. 828 868

Technical data

Viewing distance :	30 m
Material :	Stainless steel A4 brushed
Illuminant :	LEDs
Nominal voltage AC :	230V ± 10%, 50/60Hz
Power consumption :	7.5 VA
Terminals :	2.5mm ²
Temperature ta :	M - light: -5°C... +35°C NM - light: 0°C... +40°C
Protection category :	IP65
Protection class :	I
Rated duration :	1h / 1.5h / 2h / 3h / 8h
Battery type :	Ni-MH 4.8V 1.1Ah (Art. no. 890014)

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and DIN EN 1838



Housing-colours	Part.no.	Colour code
Special colours	...	L99
Attach the colour code to part number e.g.	800 014	LXX



BNP 828.1 LED

Stainless steel luminaires

Self-contained LED luminaires with bus-connection to BNS-MTB

Double sided exit luminaires made of robust stainless steel with high protection category.

BNP 828.1 K SV/B LED - 1-8/D

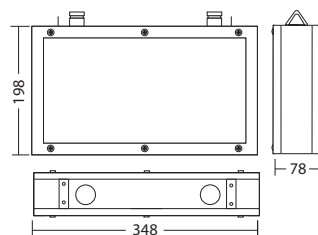
Chain mounting

Art.no. 828 869

Technical data

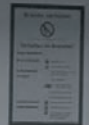
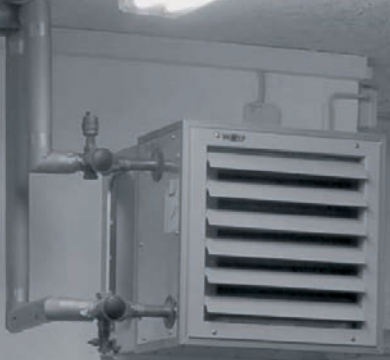
Viewing distance :	30 m
Material :	Stainless steel A4 brushed
Illuminant :	LEDs
Nominal voltage AC :	230V ± 10%, 50/60Hz
Power consumption :	8.5 VA
Terminals :	2.5mm ²
Temperature ta :	M - light: -5°C... +35°C NM - light: 0°C... +40°C
Protection category :	IP65
Protection class :	I
Rated duration :	1h / 1.5h / 2h / 3h / 8h
Battery type :	Ni-MH 4.8V 1.1Ah (Art. no. 890014)

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and DIN EN 1838



Housing-colours	Part.no.	Colour code
Special colours	...	L99
Attach the colour code to part number e.g.	800 014	LXX





Moulded plastic luminaires

Universal emergency exit and safety luminaires

INOTEC offers a wide range of moulded plastic luminaires. The different housing sizes and versions allow you to personalise your emergency lighting. The range includes luminaires with one-, two- or three-sided light output, as well as luminaires with a high protection rating.

Advantages

- Different housing sizes
- Protection ratings up to IP65

Areas of application

- Workplaces
- Multi-storey car parks



BNP 2130

45



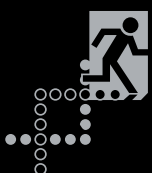
BNP 2230

48



BNP 1006

49



Moulded plastic luminaires, made in Germany

The new moulded plastic luminaires

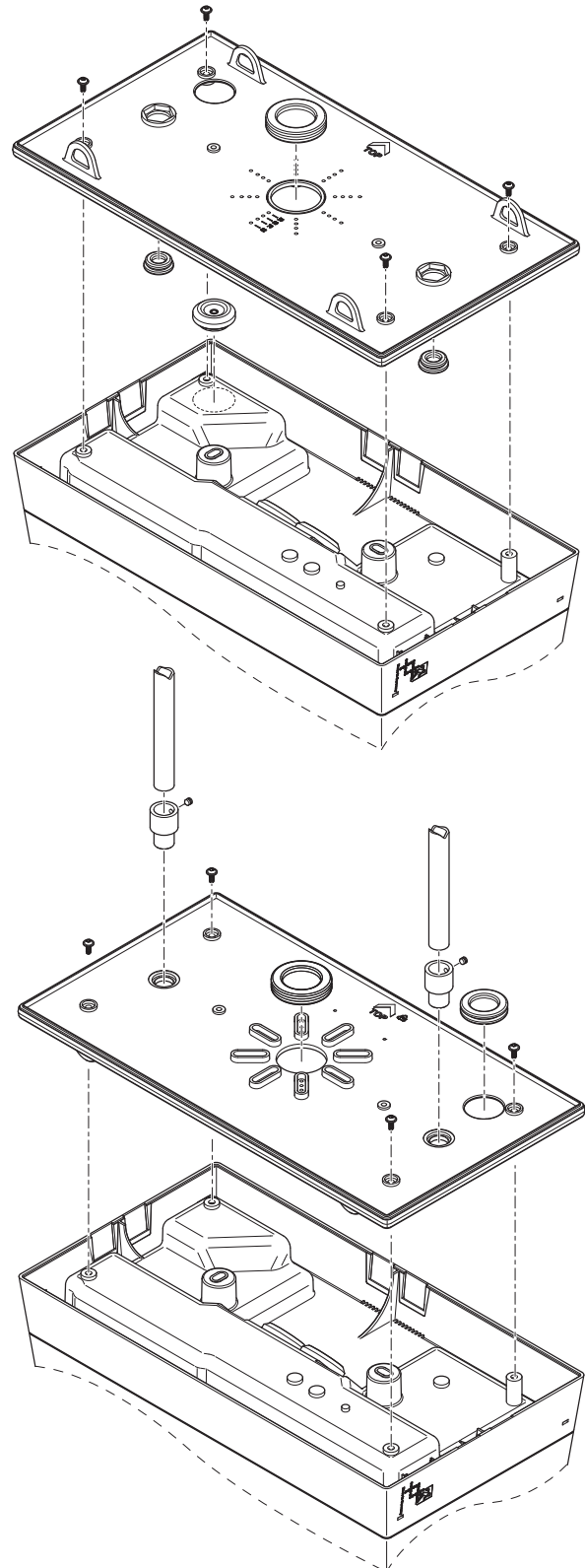
BN 2100, BN(P) 2130 and BNP 2230 are designed and constructed completely in house.

A close collaboration with our customers, designers and fitters allowed us to take into account requests and suggestions during the construction phase, so we've been able to satisfy all the demands made of a modern moulded plastic luminaire.

The polycarbonate housing and all other components are produced in Germany. This guarantees that they meet the high standards of German manufacturing.



Numerous mounting options thanks to the optional mounting adapter





PC II



IP65



UV resistant

The high protection rating and the housing's protective insulation allow use in difficult ambient conditions

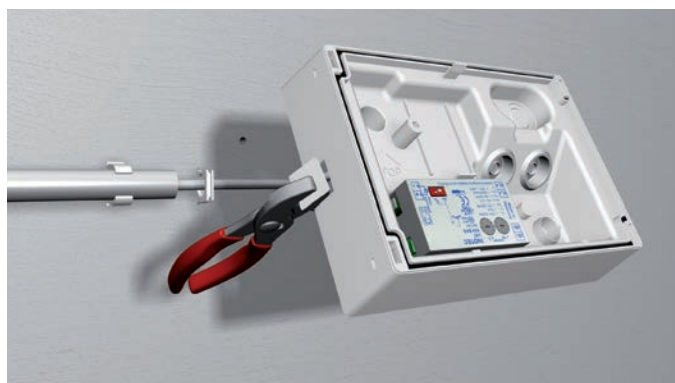
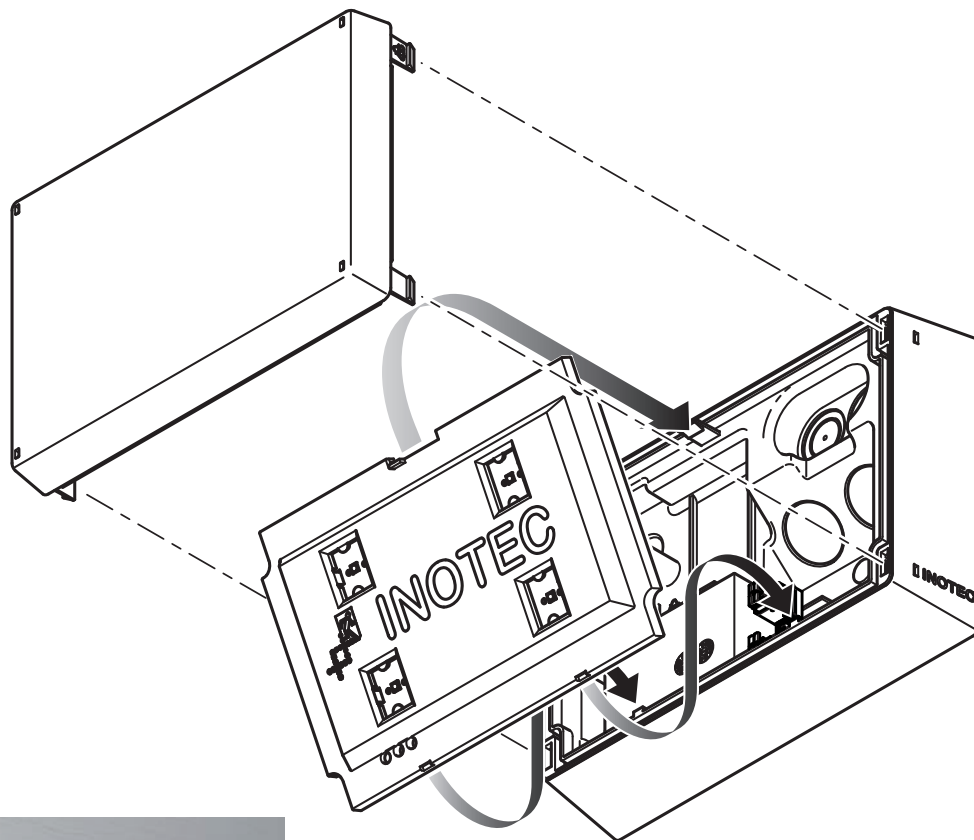
The luminaires are made from high-quality UV-resistant polycarbonate that passes the 850°C hot-wire test and are optionally available in protection categories IP40 and IP65. The separate terminal compartment guarantees protection class II and the high protection rating IP65.



Easy to mount in both on-wall and in-wall installation

Quick to install in five easy steps

1. Mount luminaire housing
2. Connect power cable
3. Fit illuminant
4. Click reflector into place
5. Close cover



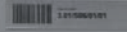
With on-wall installations, pre-moulded lateral openings can simply be punched out. A cable inlet ensures the power cable is inserted cleanly. The separate terminal compartment inside the luminaire further guarantees the high protection rating IP65. There are two mouldings on each of three sides of the luminaire, so that through-wiring is also possible.

A slightly raised surface on the back of the luminaires ensures that they can be mounted on uneven walls without compromising their tightness. The luminaires' special construction ensures there is no warping, which often leads to leaks in conventional housing constructions. The optional adapter for chain and pendulum mounting is also perfect for installation on trapezoidal sheets and rail systems.





3.01/S06



BNP 2130 LED

Polycarbonate luminaires

Self-contained LED luminaires with bus-connection to BNS-MTB

Single sided LED polycarbonate exit luminaire with side cable entry

Technical data

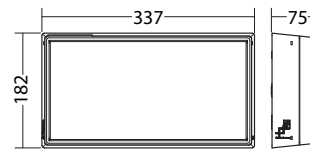
Viewing distance :	30 m
Material :	Polycarbonate white
Illuminant :	LEDs
Nominal voltage AC :	230V ± 10%, 50/60Hz
Power consumption :	8.5 VA
Terminals :	2.5mm ²
Temperature ta :	M - light: -5°C... +35°C NM - light: 0°C... +40°C
Protection category :	IP40/65
Protection class :	II
Rated duration :	1h / 1.5h / 2h / 3h / 8h
Battery type :	Ni-MH 4.8V 1.1Ah (Art. no. 890 015)

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and
DIN EN 1838

BNP 2130 SV/B LED - 1-8/D

Art. no. 822 204 - IP65
Art. no. 822 201 - IP40

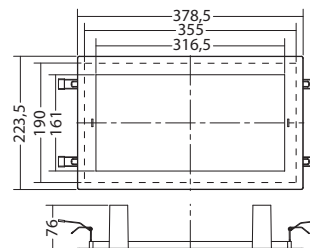
Wall mounting



Mounting frame

Art. no. 890 050

Recessed wall mounting



BNP 2230 LED

Polycarbonate luminaires

Self-contained LED luminaires with bus-connection to BNS-MTB

Double sided LED polycarbonate exit luminaire with side cable entry

Technical data

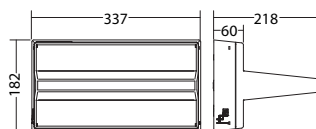
- Viewing distance :** 30 m
- Material :** Polycarbonate white
- Illuminant :** LEDs
- Nominal voltage AC :** 230V ± 10%, 50/60Hz
- Power consumption :** 8.5 VA
- Terminals :** 2.5mm²
- Temperature ta :** M - light: -5°C... +35°C
NM - light: 0°C... +40°C
- Protection category :** IP40/65
- Protection class :** II
- Rated duration :** 1h / 1.5h / 2h / 3h / 8h
- Battery type :** Ni-MH 4.8V 1.1Ah
(Art. no. 890 015)

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and DIN EN 1838

BNP 2230 SV/B LED - 1-8/D

Art. no. 822 205 - IP65
Art. no. 822 202 - IP40

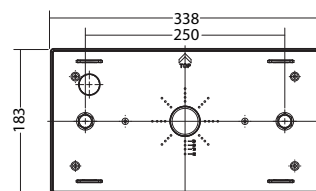
Ceiling mounting



Mounting adapter

Art. no. 890 052 - IP40

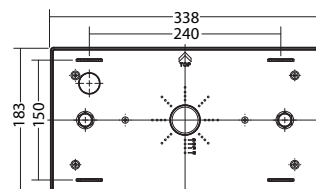
Pendulum mounting



Mounting adapter

Art. no. 890 051 - IP40/65

Chain mounting



BNP 1006 LED

Polycarbonate luminaires

Self-contained LED luminaires with bus-connection to BNS-MTB

Polycarbonate safety- /exit-luminaire with single- or triple-sided light output.

Technical data

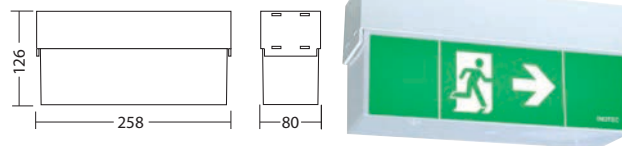
Viewing distance :	16 m
Material :	Polycarbonate white
Illuminant :	LEDs
Nominal voltage AC :	230V \pm 10%, 50/60Hz
Power consumption :	7.5 VA
Terminals :	2.5mm ²
Temperature ta :	M - light: -5°C... +35°C NM - light: 0°C... +40°C
Protection category :	IP20
Protection class :	I
Rated duration :	1h / 1.5h / 2h / 3h / 8h
Luminous flux :	1h = 65% ; 1.5h = 50% ; 2h = 40% 3h = 30% ; 8h = 15%
Battery type :	Ni-MH 4.8V 1.1Ah (Art. no. 890014)

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and DIN EN 1838

BNP 1006 SV/B LED - 1-8/D

Wall or ceiling mounting

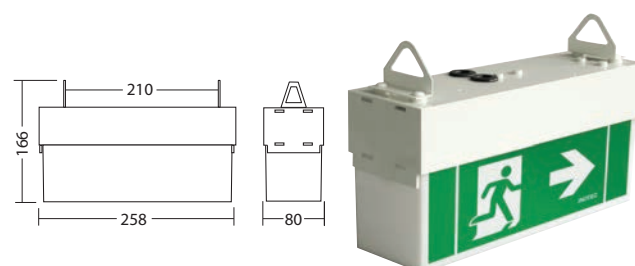
Art.no. 821 628



Chain adapter

Optional accessory

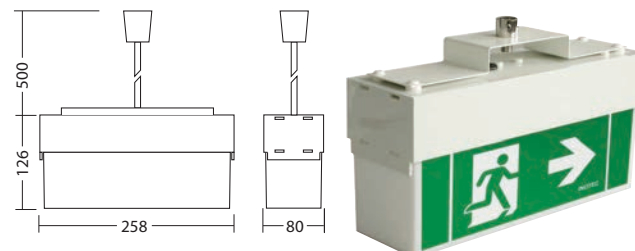
Art.no. 190 153



Pendulum adapter

Optional accessory

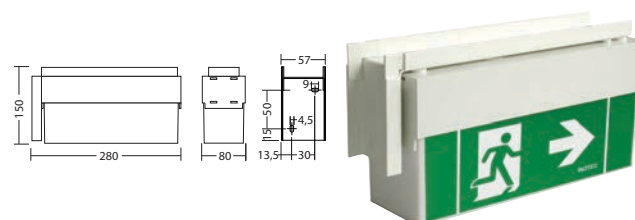
Art.no. 190 152



Wall bracket

Optional accessory

Art.no. 190 154





Safety luminaires

Powerful and variable






INOTEC offers a wide range of safety luminaires. Variable mounting and fixing options ensure the right solution for every application.

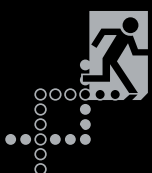
Advantages

- Low power consumption
- Easy to install
- Cutting-edge lighting technology

Areas of application

- Public buildings
- Workplaces
- Congress centres
- Hotels
- Offices
- Sales outlets
- etc.

	BN 9104.1	52
	BN 2100	53
	BN 2040.1	55
	BN 2004.1	56
	BN 6204	57



Elegant LED safety luminaires with powder-coated cover designed for tool-less recessed ceiling installation.

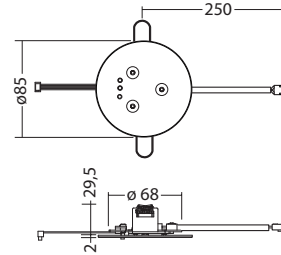
BN 9104.1 SV/B LED - 1-8/D
Art.no. 829 400

Recessed ceiling mounting

Technical data

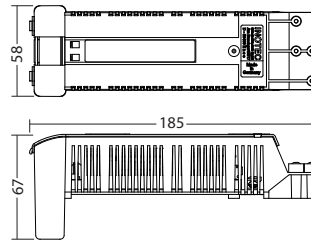
Material :	Stainless steel A4 brushed / powder-coated steel-sheet
Illuminant :	LEDs
Nominal voltage AC :	230V ± 10%, 50/60Hz
Power consumption :	7.5 VA
Terminals :	2.5mm ²
Temperature ta :	M - light: -5°C... +35°C NM - light: 0°C... +40°C
Protection category :	IP20
Protection class :	I
Rated duration :	1h / 1.5h / 2h / 3h / 8h
Luminous flux :	1h = 65% ; 1.5h = 50% ; 2h = 40% 3h = 30% ; 8h = 15%
Battery type :	Ni-MH 4.8V 1.1Ah (Art. no. 890 015)

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and DIN EN 1838



Supply unit
Art.no. 890 585

Accessory

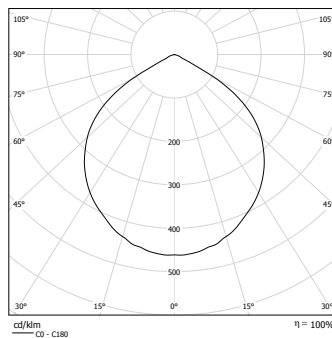


Housing-colours	Part.no.	Colour code
White (RAL 9016)	...	L04
Stainless steel	...	L30
Special colours	...	L99

Attach the colour code to part number e.g.

800 014 LXX

Ceiling mounting	☺☺	
Mounting height [m]	[m]	[m]
1h rated duration	65%	
2.5	3.2	7.8
3.0	3.5	8.6
4.0	3.6	9.8
5.0	3.5	10.2
6.0	3.0	10.3
7.0	2.1	10.0
3h rated duration	30%	
2.5	2.5	6.4
3.0	2.4	6.8
4.0	2.1	7.0
5.0	1.7	7.3
8h rated duration	15%	
2.5	1.6	5.0
3.0	1.4	5.0
3.5	0.9	4.3



Minimum illumination 1.25 Lux (middle of escape route)
Measuring plane 2cm above floor level



BN 2100 LED

Polycarbonate luminaires

Self-contained LED luminaires with bus-connection to BNS-MTB

Polycarbonate LED safety luminaire with side cable entry

BN 2100 SV/B LED - 1-8/D

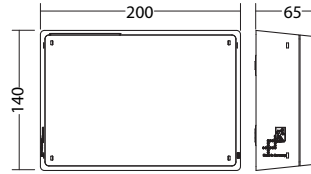
Ceiling mounting

Art. no. 822 008 - IP65
Art. no. 822 005 - IP40

Technical data

- Material :** Polycarbonate white
- Illuminant :** LEDs
- Nominal voltage AC :** 230V ± 10%, 50/60Hz
- Power consumption :** 8.5 VA
- Terminals :** 2.5mm²
- Temperature ta :** M - light: -5°C... +35°C
NM - light: 0°C... +40°C
- Protection category :** IP40/65
- Protection class :** II
- Rated duration :** 1h / 1.5h / 2h / 3h / 8h
- Luminous flux :** 1h = 50% ; 1.5h = 40% ; 2h = 35%
3h = 25% ; 8h = 10%
- Battery type :** Ni-MH 4.8V 1.1Ah
(Art. no. 890 015)

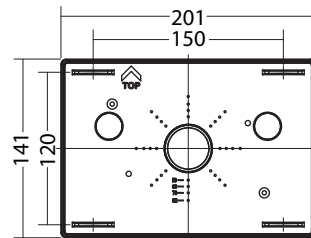
acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and DIN EN 1838



Mounting adapter

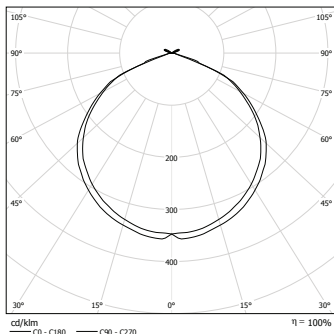
Chain mounting

Art. no. 890 724



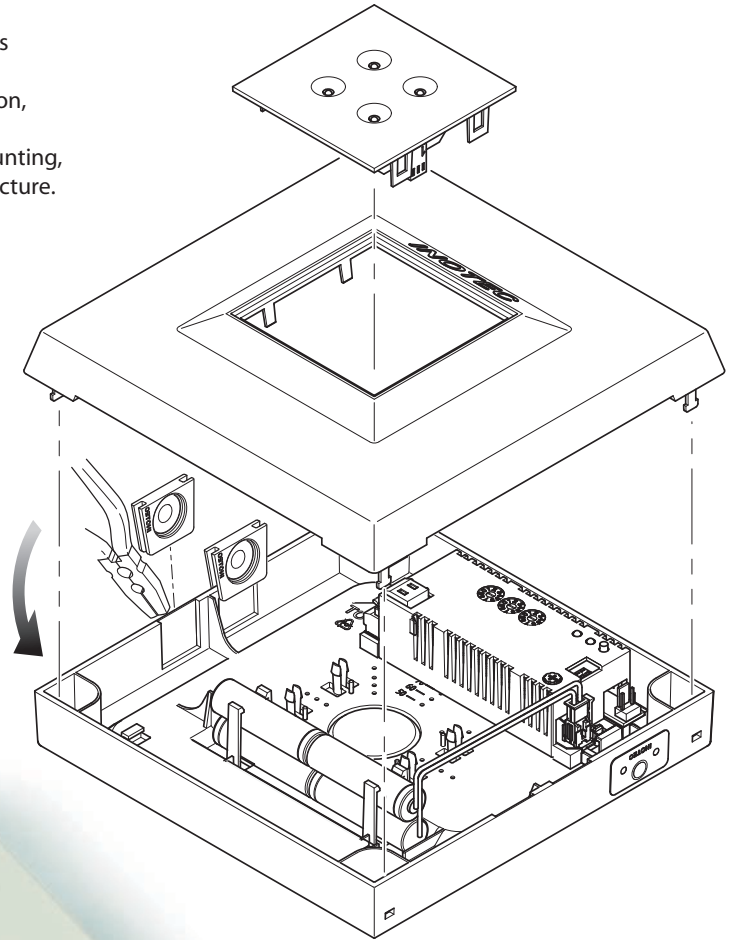
Ceiling mounting					
Mounting height [m]	[m]	[m]	[m]	[m]	
1h rated duration					50%
2.5	3.0	7.7	7.8	3.0	
3.0	3.0	8.2	8.3	3.1	
4.0	2.9	8.7	8.9	3.0	
5.0	2.4	8.7	8.9	2.5	
6.0	1.2	8.2	8.3	1.3	
3h rated duration					25%
2.5	2.2	6.0	6.2	2.0	
3.0	2.0	6.2	6.4	2.1	
4.0	1.2	6.0	6.2	1.4	
8h rated duration					10%
2.5	0.8	3.8	3.9	0.9	
3.0	0.2	3.3	3.4	0.3	

Minimum illumination 1.25 Lux (middle of escape route)
Measuring plane 2cm above floor level



Handy downlight with unobtrusive design

Easy installation and a flat design – these are the features that characterise the new safety luminaire BN 2040. With its rear cable entries, and optional knock-out side entries, this luminaire's construction also takes into account the trends and changes in electrical installation. Because of its great flexibility, people often choose an exposed tube installation, even in architecturally sophisticated buildings. The new SN 2040 offers all the advantages of surface mounting, while its flat design blends unobtrusively with the architecture.



Universal polycarbonate LED safety luminaire with a flat design and optional side cable entry.

BN 2040.1-41 SV/B LED - 1-8/D

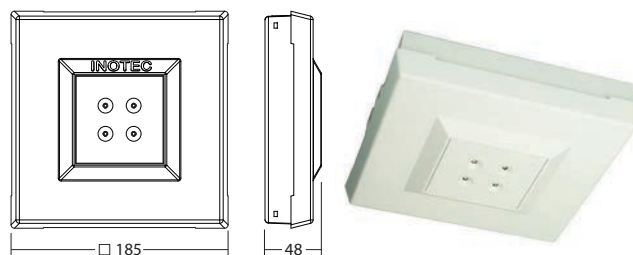
Ceiling mounting



Art.no. 822 060.1

Technical data

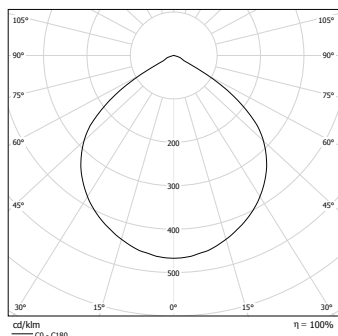
Material :	Polycarbonate white
Illuminant :	LEDs
Nominal voltage AC :	230V ± 10%, 50/60Hz
Power consumption :	8.5 VA
Terminals :	2.5mm ²
Temperature ta :	M - light: -5°C... +35°C NM - light: 0°C... +40°C
Protection category :	IP40
Protection class :	II
Rated duration :	1h / 1.5h / 2h / 3h / 8h
Luminous flux :	1h = 50% ; 1.5h = 40% ; 2h = 35% 3h = 25% ; 8h = 10%
Battery type :	Ni-MH 4.8V 1.1Ah (Art. no. 890 021)

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and DIN EN 1838



Ceiling mounting		
Mounting height [m]	[m]	[m]
1h rated duration		50%
2.5	3.2	7.6
3.0	3.5	8.4
4.0	3.6	9.6
5.0	3.4	10.1
6.0	3.0	10.2
7.0	1.9	9.7
3h rated duration		25%
2.5	2.5	6.5
3.0	2.5	6.9
4.0	2.2	7.2
5.0	1.2	6.7
8h rated duration		10%
2.5	1.4	4.6
3.0	1.0	4.5
3.5	0.2	3.9

Minimum illumination 1.25 Lux (middle of escape route)
Measuring plane 2cm above floor level



Elegant and versatile LED wall-luminaire.

BN 2004.1 SV/B LED - 1-8/D

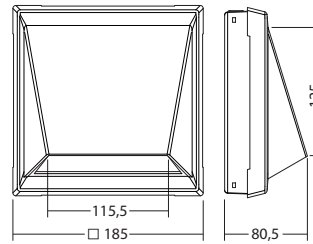
Wall mounting

Art.no. 822 065.1

Technical data

Material :	Polycarbonate white
Illuminant :	LEDs
Nominal voltage AC :	230V ± 10%, 50/60Hz
Power consumption :	7.5 VA
Terminals :	2.5 mm ² for feed-through wiring
Temperature ta :	M - light: -5°C... +35°C NM - light: 0°C... +40°C
Protection category :	IP40
Protection class :	II

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and
DIN EN 1838



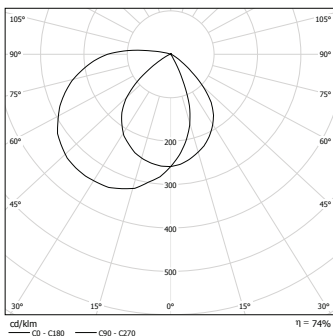
Housing-colours Part.no. Colour code

Special colours ... L99

Attach the colour code to
part number e.g. **800 014 LXX**

Ceiling mounting		
Mounting height [m]	[m]	[m]
Distance to middle of escape route 1 m		
1h rated duration 65%		
1.0	1.8	4.3
2.0	2.4	6.1
3.0	2.5	7.0
4.0	2.3	7.4
5.0	1.5	7.1
3h rated duration 30%		
1.0	1.4	3.7
2.0	1.7	4.8
3.0	1.4	5.1
8h rated duration 15%		
1.0	1.0	3.0
2.0	1.0	3.6

Minimum illumination 1.25 Lux (middle of escape route)
Measuring plane 2cm above floor level



Elegant and versatile LED wall-luminaire.

BN 6204 SV/B LED - 1-8/D

Art.no.826 002

Wall mounting

Technical data

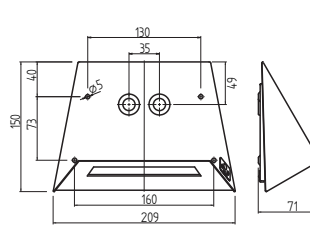
- Material :** powder-coated steel-sheet
- Illuminant :** LEDs
- Nominal voltage AC :** 230V ± 10%, 50/60Hz
- Power consumption :** 7.5 VA
- Terminals :** 2.5mm²
- Temperature ta :** M - light: -5°C... +35°C
NM - light: 0°C... +40°C
- Protection category :** IP40
- Protection class :** I
- Rated duration :** 1h / 1.5h / 2h / 3h / 8h
- Luminous flux :** 1h = 65% ; 1.5h = 50% ; 2h = 40%
3h = 30% ; 8h = 15%
- Battery type :** Ni-MH 4.8V 1.1Ah
(Art.no.890 021)

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and DIN EN 1838

Housing-colours	Part.no.	Colour code
White (RAL 9016)	...	L04
Dark grey (RAL 7015)	...	L16
Special colours	...	L99

Attach the colour code to part number e.g.

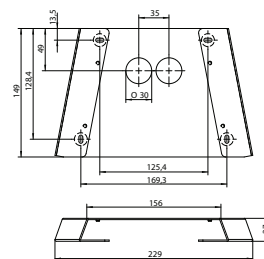
800 014 LXX



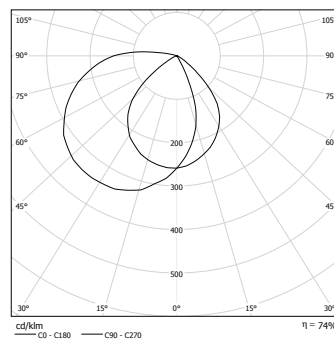
Mounting adapter

Art.no.890 730

Optional accessory

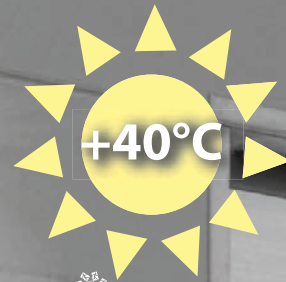


Ceiling mounting	[m]	[m]	[m]
Distance to middle of escape route 1m			
1h rated duration	65%		
	1.0	1.8	4.3
	2.0	2.4	6.1
	3.0	2.5	7.0
	4.0	2.3	7.4
	5.0	1.5	7.1
3h rated duration	30%		
	1.0	1.4	3.7
	2.0	1.7	4.8
	3.0	1.4	5.1
8h rated duration	15%		
	1.0	1.0	3.0
	2.0	1.0	3.6



Minimum illumination 1.25 Lux (middle of escape route)
Measuring plane 2cm above floor level





Luminaires with external power supply

Self-contained technology for high and low temperatures

Self-contained luminaires are frequently required for areas with high and low ambient temperatures – such as over escape doors in outdoor areas.

Here, both low winter temperatures and the high summer temperatures have a negative effect on the battery's life cycle.

The problem cannot be solved with a heated self-contained luminaire. The problems would remain of the high summer temperatures and the unnecessarily high energy consumption in winter.







With the INOTEC BN/V luminaires, the supply unit, including the battery, can be conveniently installed inside the building, leaving just the luminaire with its illuminant to be installed outside.

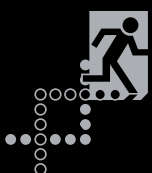
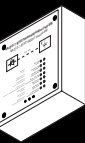
Advantages

- No reduction in battery life cycle
- Also suitable for high temperatures

Areas of application

- Outdoor areas
- Walk-in refrigerators

	BN/V 6204.2	60
	BN/V 6206-11	61
	BN/V 804.1	62
	BN/V 2100	63
	BNP/V 2130	64
	BNP/V 2230	65



BN/V 6204.2 LED

Luminaires with external supply

Self-contained LED luminaires with bus-connection to BNS-MTB

Elegant and versatile LED wall-luminaire with high protection category.

Technical data

Material :	stainless steel powder-coated
Illuminant :	LEDs
Nominal voltage AC :	230V ± 10%, 50/60Hz
Power consumption :	7.5 VA
Terminals :	2.5mm ²
Temperature ta :	Luminaire: -30°C... +40°C Supply unit M-light: -5°C... +35°C Supply unit NM-light: 0°C... +40°C
Protection category :	Luminaire: IP65 Supply unit: IP40
Protection class :	I
Rated duration :	1h / 1.5h / 2h / 3h / 8h
Luminous flux :	1h = 65% ; 1.5h = 50% ; 2h = 40% 3h = 30% ; 8h = 15%
Battery type :	Ni-MH 4.8V 1.1Ah (Art. no. 890 021)

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and DIN EN 1838

Housing-colours Part.no. Colour code

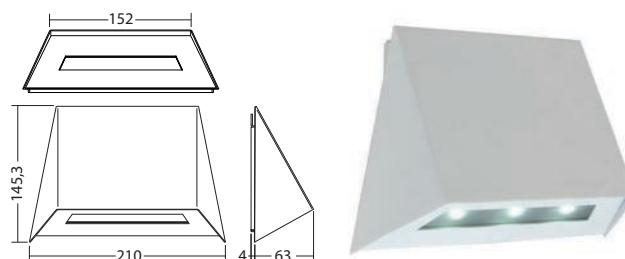
White (RAL 9016)	...	L04
Dark grey (RAL 7015)	...	L16
Special colours	...	L99

Attach the colour code to part number e.g. **800 014 LXX**

BN/V 6204.2 SV/B LED - 1-8/D

Art.no. 826 003

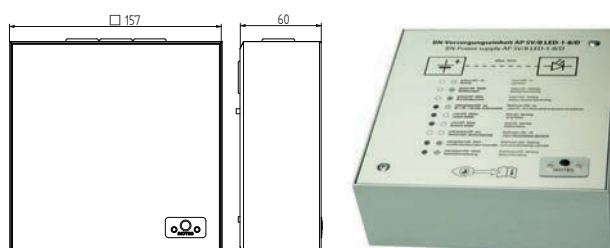
Wall mounting



Supply unit

Art.no. 829 901

Accessory



Ceiling mounting		
Mounting height [m]	[m]	[m]

Distance to middle of escape route 1m			
1h rated duration			65%
1.0	1.8	4.3	
2.0	2.4	6.1	
3.0	2.5	7.0	
4.0	2.3	7.4	
5.0	1.5	7.1	
3h rated duration			30%
1.0	1.4	3.7	
2.0	1.7	4.8	
3.0	1.4	5.1	
8h rated duration			15%
1.0	1.0	3.0	
2.0	1.0	3.6	

Minimum illumination 1.25 Lux (middle of escape route)
Measuring plane 2cm above floor level



BN/V 6206-11 LED

Luminaires with external supply

Self-contained LED luminaires with bus-connection to BNS-MTB

Elegant and versatile LED wall-luminaire with high protection category.

Technical data



Material :	Aluminum powder-coated
Illuminant :	LEDs
Nominal voltage AC :	230V ± 10%, 50/60Hz
Power consumption :	5.9 VA
Terminals :	2.5mm ²
Temperature ta :	Luminaire: -30°C... +40°C Supply unit M-light: -5°C... +35°C Supply unit NM-light: 0°C... +40°C
Protection category :	Luminaire: IP65 Supply unit: IP40
Protection class :	I
Rated duration :	1h / 1.5h / 2h / 3h / 8h
Luminous flux :	1h = 95% ; 1.5h = 95% ; 2h = 80% 3h = 60% ; 8h = 30%
Battery type :	Ni-MH 4.8V 1.1Ah (Art. no. 890 021)

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and DIN EN 1838

Housing-colours Part.no. Colour code

White (RAL 9016)	...	L04
Dark grey (RAL 7015)	...	L16
Special colours	...	L99

Attach the colour code to part number e.g. **800 014 LXX**

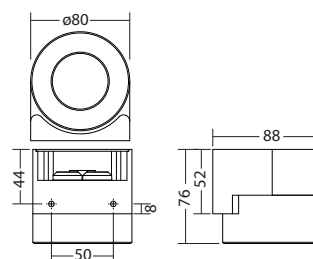
Ceiling mounting		
Mounting height [m]	[m]	[m]
1h rated duration	95%	
2.0	2.1	5.3
3.0	2.4	6.7
4.0	2.1	7.2
5.0	1.3	6.9
3h rated duration	60%	
2.0	1.8	4.7
3.0	1.7	5.5
4.0	0.6	5.3
8h rated duration	30%	
2.0	1.0	3.6
2.5	0.8	3.6

Minimum illumination 1.25 Lux (middle of escape route)
Measuring plane 2cm above floor level

BN / V 6206-11 SV/B LED - 1-8/D

Art.no. 826 004

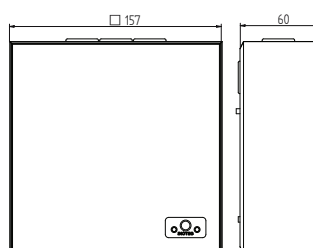
Wall mounting



Supply unit

Art.no. 829 901

Accessory



BN/V 804.1 LED

Luminaires with external supply

Self-contained LED luminaires with bus-connection to BNS-MTB

Robust stainless steel luminaires with high protection category and modern LED-technology for large-area illumination of exit- and escaperoutes.

Technical data

- Material :** Stainless steel A4 brushed
- Illuminant :** LEDs
- Nominal voltage AC :** 230V ± 10%, 50/60Hz
- Power consumption :** 8.5 VA
- Terminals :** 2.5mm²
- Temperature ta :** Luminaire: -30°C... +40°C
Supply unit M-light: -5°C... +35°C
Supply unit NM-light: 0°C... +40°C
- Protection category :** Luminaire: IP65
Supply unit: IP40
- Protection class :** I
- Rated duration :** 1h / 1.5h / 2h / 3h / 8h
- Luminous flux :** 1h = 50% ; 1.5h = 40% ; 2h = 35%
3h = 25% ; 8h = 10%
- Battery type :** Ni-MH 4.8V 1.1Ah
(Art. no. 890 021)

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and DIN EN 1838

Housing-colours	Part.no.	Colour code
White (RAL 9016)	...	L04
Dark grey (RAL 7015)	...	L16
Special colours	...	L99

Attach the colour code to part number e.g. **800 014 LXX**

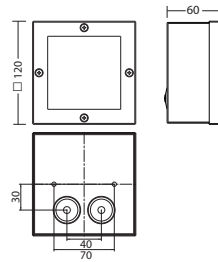
Mounting height [m]	1h rated duration	3h rated duration	8h rated duration
2.5	3.2	2.5	1.4
3.0	3.5	2.5	1.0
4.0	3.6	2.2	0.2
5.0	3.4	1.2	
6.0	3.0		
7.0	1.9		

Minimum illumination 1.25 Lux (middle of escape route)
Measuring plane 2cm above floor level

BN/V 804.1 D SV/B LED - 1-8/D

Art. no. 828 881

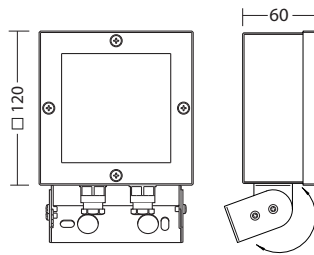
Ceiling mounting



BN/V 804.1 W SV/B LED - 1-8/D

Art. no. 828 880

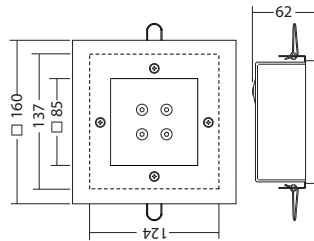
Wall or ceiling mounting



BN/V 804.1 E SV/B LED - 1-8/D

Art. no. 828 882

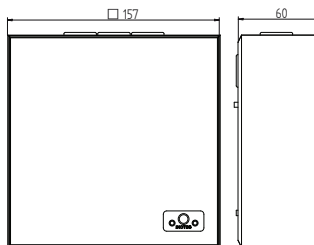
Recessed ceiling mounting



Supply unit

Art. no. 829 901

Accessory



Polycarbonate LED safety luminaire with side cable entry.

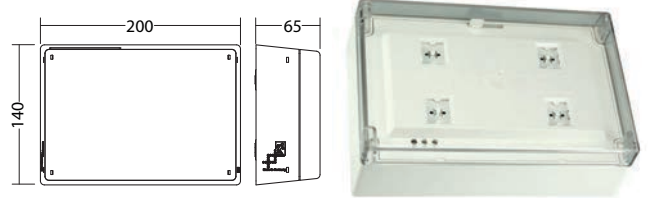
Technical data

Material :	Polycarbonate white
Illuminant :	LEDs
Nominal voltage AC :	230V ± 10%, 50/60Hz
Power consumption :	8.5 VA
Terminals :	2.5mm ²
Temperature ta :	Luminaire: -30°C... +40°C Supply unit M-light: -5°C... +35°C Supply unit NM-light: 0°C... +40°C
Protection category :	Luminaire: IP65 Supply unit: IP40
Protection class :	I
Rated duration :	1h / 1.5h / 2h / 3h / 8h
Luminous flux :	1h = 50% ; 1.5h = 40% ; 2h = 35% 3h = 25% ; 8h = 10%
Battery type :	Ni-MH 4.8V 1.1Ah (Art. no. 890 021)

acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and DIN EN 1838

BN/V 2100 SV/B LED - 1-8/D

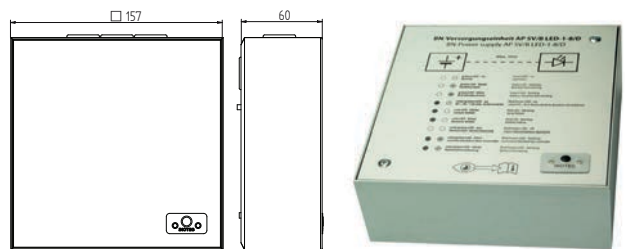
Art. no. 822 015



Supply unit

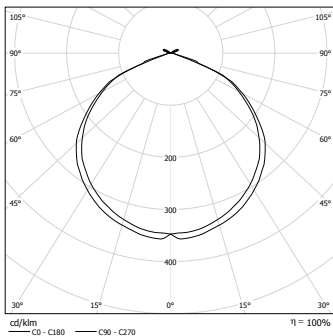
Art. no. 829 901

Accessory



Ceiling mounting				
Mounting height [m]	[m]	[m]	[m]	[m]
1h rated duration	50%			
2.5	3.0	7.7	7.8	3.0
3.0	3.0	8.2	8.3	3.1
4.0	2.9	8.7	8.9	3.0
5.0	2.4	8.7	8.9	2.5
6.0	1.2	8.2	8.3	1.3
3h rated duration	25%			
2.5	2.2	6.0	6.2	2.0
3.0	2.0	6.2	6.4	2.1
4.0	1.2	6.0	6.2	1.4
8h rated duration	10%			
2.5	0.8	3.8	3.9	0.9
3.0	0.2	3.3	3.4	0.3

Minimum illumination 1.25 Lux (middle of escape route)
Measuring plane 2cm above floor level



BNP/V 2130 LED

Luminaires with external supply

Self-contained LED luminaires with bus-connection to BNS-MTB

Single sided LED polycarbonate exit
luminaire with side cable entry.

BNP/V 2130 SV/B LED - 1-8/D

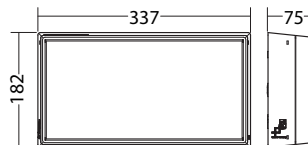
Art.no. 822 016

Wall mounting

Technical data

Viewing distance :	30 m
Material :	Polycarbonate white
Illuminant :	LEDs
Nominal voltage AC :	230V \pm 10%, 50/60Hz
Power consumption :	8.5 VA
Terminals :	2.5mm ²
Temperature ta :	Luminaire: -30°C... +40°C Supply unit M-light: -5°C... +35°C Supply unit NM-light: 0°C... +40°C
Protection category :	Luminaire: IP65 Supply unit: IP40
Protection class :	I
Rated duration :	1h / 1.5h / 2h / 3h / 8h
Battery type :	Ni-MH 4.8V 1.1Ah (Art. no. 890 021)

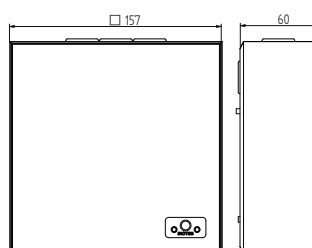
acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and
DIN EN 1838



Supply unit

Art.no. 829 901

Accessory



BNP/V 2230 LED

Luminaires with external supply

Self-contained LED luminaires with bus-connection to BNS-MTB

Double sided LED polycarbonate exit luminaire with side cable entry.

BNP/V 2230 SV/B LED - 1-8/D

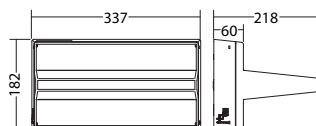
Ceiling mounting

Art.no. 822 217

Technical data

Viewing distance :	30 m
Material :	Polycarbonate white
Illuminant :	LEDs
Nominal voltage AC :	230V ± 10%, 50/60Hz
Power consumption :	8.5 VA
Terminals :	2.5mm ²
Temperature ta :	Luminaire: -30°C... +40°C Supply unit M-light: -5°C... +35°C Supply unit NM-light: 0°C... +40°C
Protection category :	Luminaire: IP65 Supply unit: IP40
Protection class :	I
Rated duration :	1h / 1.5h / 2h / 3h / 8h
Battery type :	Ni-MH 4.8V 1.1Ah (Art. no. 890 021)

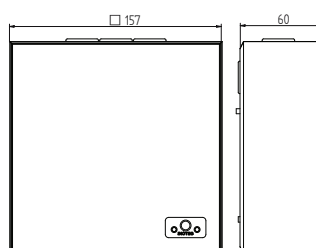
acc. to DIN EN 60598-1, DIN EN 60598-2-22, DIN 4844-1 and DIN EN 1838



Supply unit

Accessory

Art.no. 829 901





Hand lamps

Portable self-contained luminaires




In many constructions, safety lighting is also required in electrical rooms. In order to avoid installing a self-contained luminaire, often hand lamps are used with integrated batteries. Additionally, the luminaires can be used for control or inspection services, including in hazardous locations.

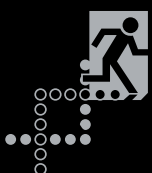
Advantages

- Mobile use possible
- Incl. wall-mountable charging station

Areas of application

- Portable safety lighting for inspection work
- Control services

INOLux LED		66	
INOLux EX LED		67	



LED hand lamp with charger, battery, and incl. orange diffuser lens. Connecting lead 230V and 12/24V included. Safety lighting function with charging station possible.

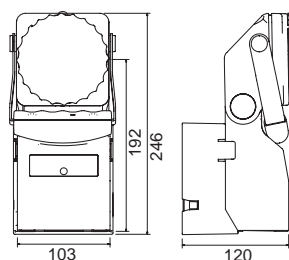
Technical data

Material :	High - Quality ABS plastic
Illuminant :	Power LED with focus lens
Nominal voltage AC :	230V AC 50/60Hz, 12/24V DC
Temperature ta :	-20°C... +40°C
Protection category :	Luminaire IP54 charging station IP20
Protection class :	II
Rated duration :	Centre light continuous 5h Centre light flashing 10h
Battery type :	Lead-acid battery, maintenance-free; 4 V / 3.5 Ah

INOLux LED Set

Art.no. 820 030

Handlamp set



Accessory INOLux LED

Art.no. 820 032 - Diffuser clear
Art.no. 820 033 - Diffuser red
Art.no. 820 034 - Diffuser green
Art.no. 820 035 - Diffuser orange

Optional accessory



INOLux Ex LED

Portable Emergency Lamp

suitable for use in electrical operating rooms

Ex LED hand lamp with charger, battery, and incl. orange diffuser lens. Connecting lead 230V and 12/24V included. Safety lighting function with charging station possible.

Technical data

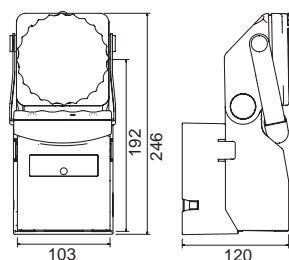
Material :	High - Quality ABS plastic
Illuminant :	Power LED with focus lens
Nominal voltage AC :	230V AC 50/60Hz, 12/24V DC
Temperature ta :	-20°C... +40°C
Protection category :	Luminaire IP54 charging station IP20
Protection class :	II
Rated duration :	Centre light continuous 5h Centre light flashing 10h
Battery type :	Lead-acid battery, maintenance-free; 4 V / 3.5 Ah

This intrinsically handlamp corresponds to device group II, category 2 acc. to EC directive 94/9/EC. It may be operated in areas with explosive atmosphere, which come under the specifications for zone 1,2,21 and 22.

INOLux Ex LED Set

Art.no. 820 037

Handlamp set



Accessory INOLux Ex LED

Art.no. 820 032 - Diffuser clear
Art.no. 820 033 - Diffuser red
Art.no. 820 034 - Diffuser green
Art.no. 820 035 - Diffuser orange

Optional accessory



INOTEC
Sicherheitstechnik GmbH

Zielort: **Hauptverwaltung** Adresse: **Industrie**
Gerätetyp: **DLB-MTB**
Softwarestand: **BA7P1**

Gerätestatus

- Störung
- Ball-Betrieb
- Betrieb

BUS 1

01	02	03	04	05	06	07	08	09	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60

Störung
Ball-Betrieb
Betrieb

BNS-MTB and InoWeb

Central monitoring and display




In order to be able to monitor self-contained luminaires centrally and, as required by DIN VDE 0100 part 718 of October 2005, to block them when the premises are unoccupied, a central monitoring device is necessary. All the mandatory tests can be started and evaluated from here. Using the optional InoWeb module, the system can also be displayed on a PC.

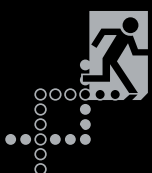
Advantages

- Central monitoring
- Automatic logbook
- Easy to use

Areas of application

- Self-contained projects with more than 10 luminaires

	BNS-MTB	72
	INOWeb	73
	INOView	74



The BNS-MTB is a central monitoring device for monitoring INOTEC self-contained luminaires. It has one line for connecting 64 INOTEC self-contained luminaires. There is the option of a second line for connecting a further 64 self-contained luminaires, or an RTG bus card for connecting to SVPC.

User-friendly, easily readable and clear graphic OLED display

Automatic function test of all connected self-contained luminaires, annual battery duration test, continuous charge monitoring

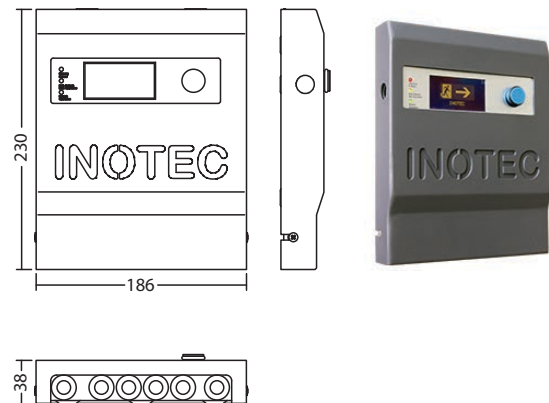
The results of all the tests carried out are displayed clearly, with the date and time, on the screen in plain text:

- Location of every luminaire
- Problem-free functioning of all the luminaires, or, where applicable, a detailed error message (charging failure, defective lamp)
- Result of the last battery duration test in minutes up to response of deep discharge protection for each luminaire

INOSTICK connectivity for saving logbook and configuration as well as 3 volt-free contacts (operation, failure and battery operation)

BNS MTB
item no.880 002

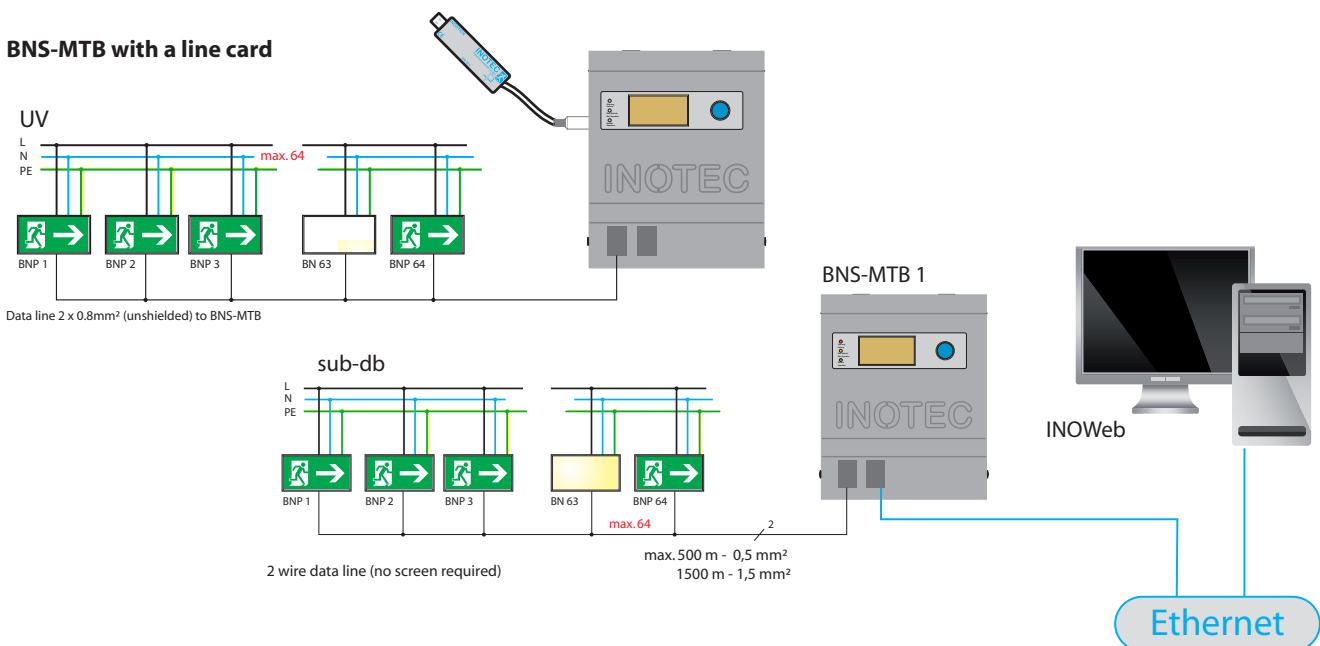
Monitoring station



Technical specifications

- Housing:** Powder-coated steel-plate housing
Installation: Surface mounted
Protection category: IP 20
Protection class: I
Supply voltage: 230V±10% ,50/60Hz
Format: as per DIN VDE 0108 / EN 50172
 EN 60598-2-22 and DIN EN 55015

BNS-MTB with a line card



INOView – The Versatile Monitoring Solution

INOView is the central monitoring solution for all INOTEC emergency lighting systems. This software is used wherever a versatile application is required, which scales with the project. All devices can be monitored either by RTG three-wire bus and / or network connection.

Safety of persons always at a glance

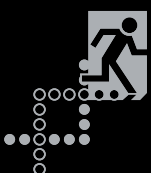
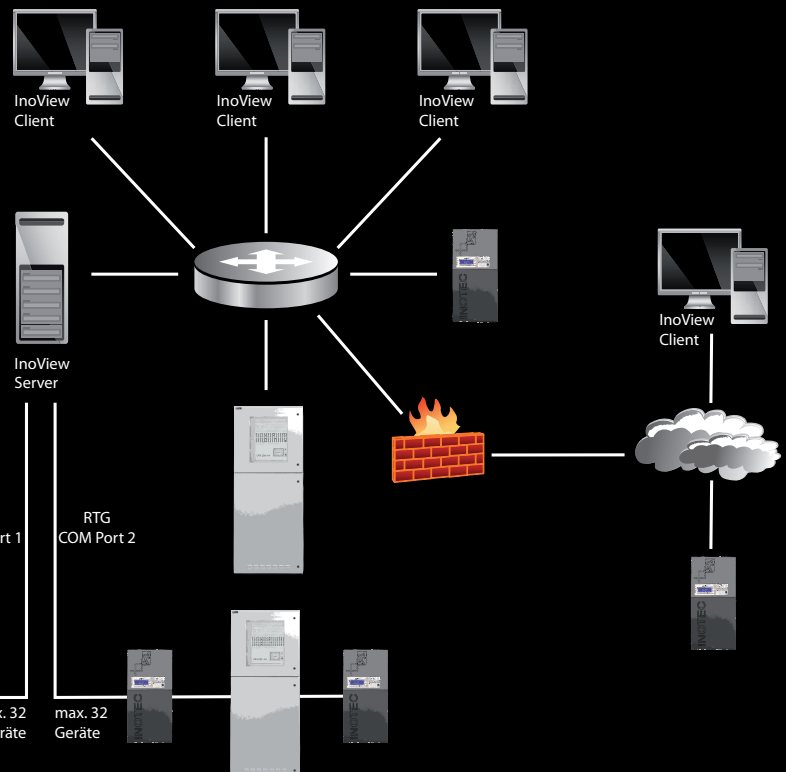
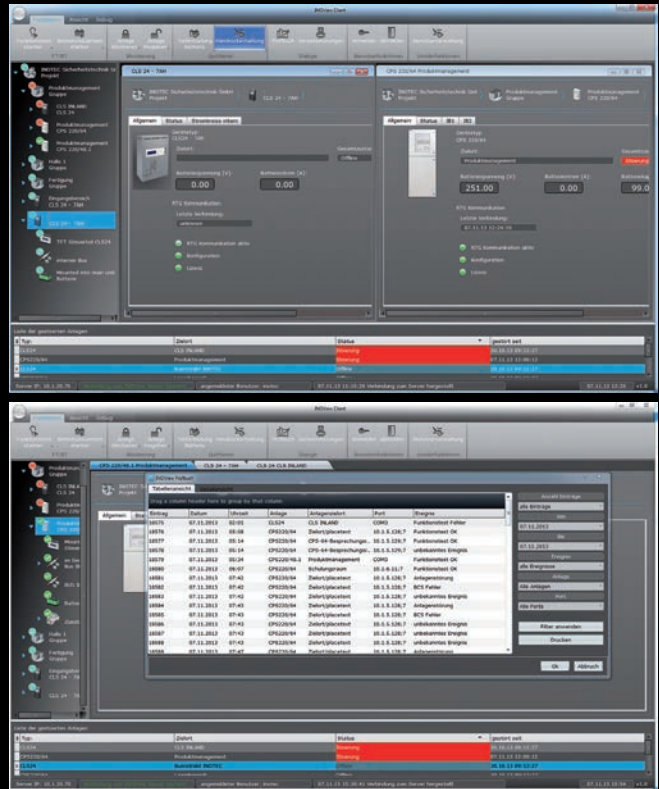
The ease of use was the main focus when developing the visualisation software INOView. Hereby the intuitive user interface was created with clearly structured system overviews and description texts. At just a glance, the user recognises the overall condition of the emergency lighting systems and may optionally quickly take measures to guarantee the safety of people in the building. The INOView software ensures transparency and provides comprehensive and detailed information on the overall and detailed system status.

Modern client-server architecture

The modern and future-proof client-server architecture ensures the security of your investment. Multiple users can access the INOView server simultaneously with all its available information by their locally installed clients. An integrated user management protects the software against unauthorised access.

Powerful but comfortable

INOView keeps your emergency lighting systems clearly structured "under control". An intuitive user interface and customisable visualisations ensure the ease of use. INOView grows with its challenge. Whether a school or an airport, with state of the art technology it's focused on the individual requirements of the customer.



Floor plan visualisation

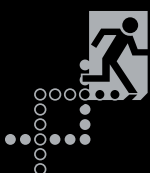
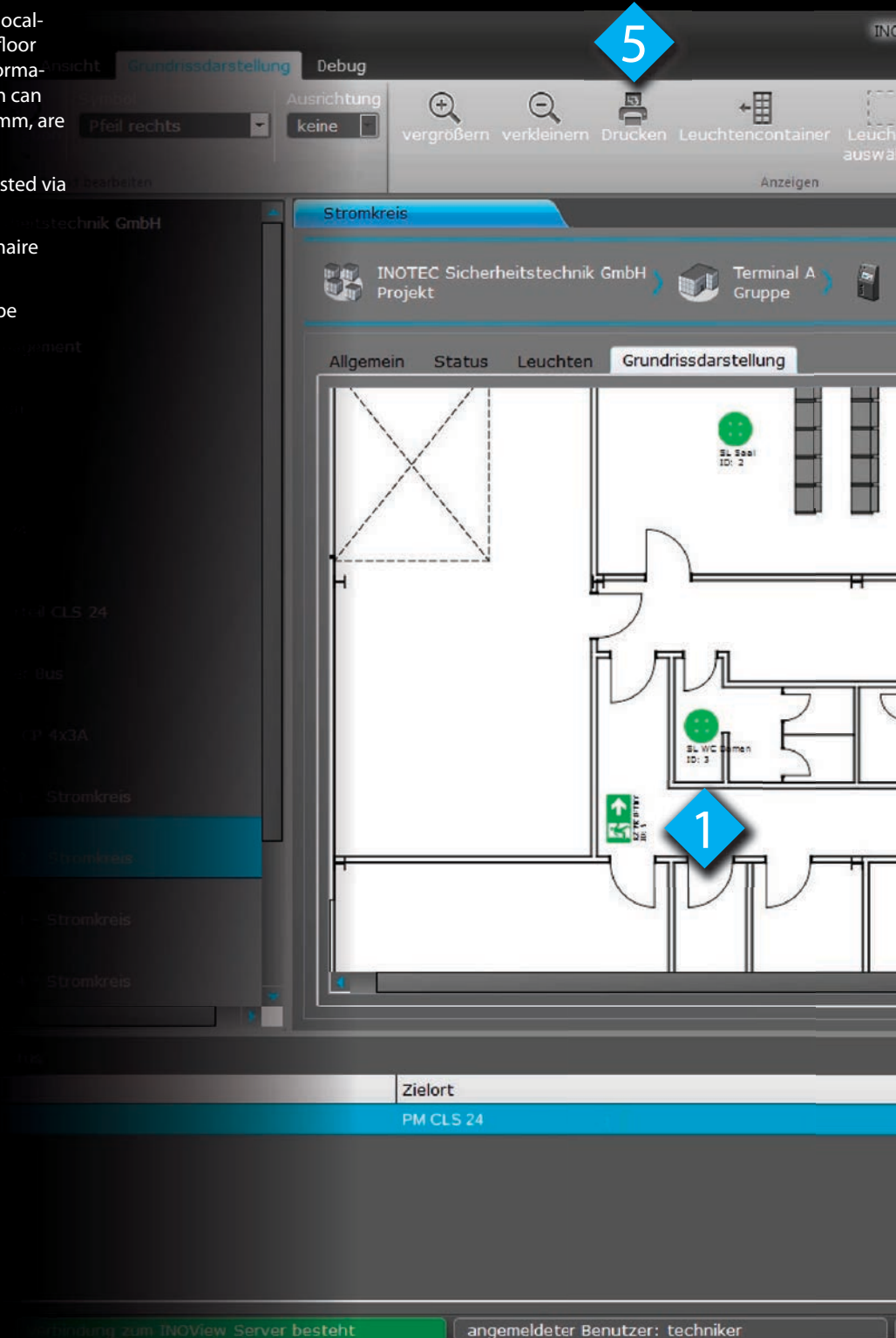
Defect luminaires and their status can be localised quickly in the floor plans. A separate floor plan can be saved for each circuit. The information of the Scalable Vector Graphics, which can be exported from a common CAD programm, are the basis for the vector graphics.

Luminaires can be added, scaled and adjusted via Drag & Drop from the luminaire database.

A print out of the plan view with the luminaire status is also possible.

The module „floor plan visualisation“ can be purchased optionally.

- 1 Position and status of the luminaires
- 2 Luminaire database to add luminaires to the floor plan
- 3 Defect safety luminaire
- 4 Import of floor plans
- 5 Printing of the displayed floor plan



INOView Client

4

Zielort
Leuchtenadresse

Daten importieren
Daten exportieren
Import/Export

Leuchte hinzufügen
Sonderfunktionen

PM CLS 24
CLS 24

interner Bus

CP 4x3A

Stromkreis

3

SL Eingang Ost
ID: 1

2

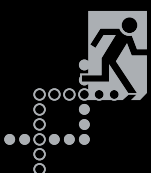
nicht platzierte Leuchten

- ID: 4 SL U-Flur
- ID: 4 SL U-Flur
- ID: 4 SL U-Flur

Status	gestört seit
Störung	04.03.16 09:04:56

04.03.16 10:34:37 Verbindung zum INOView Server besteht

04.03.16 10:54 V2.5



InoWeb network monitoring

InoWeb: BNS-MTB with optional InoWeb module for central monitoring via the intra-/Internet. Connection is to an existing network.

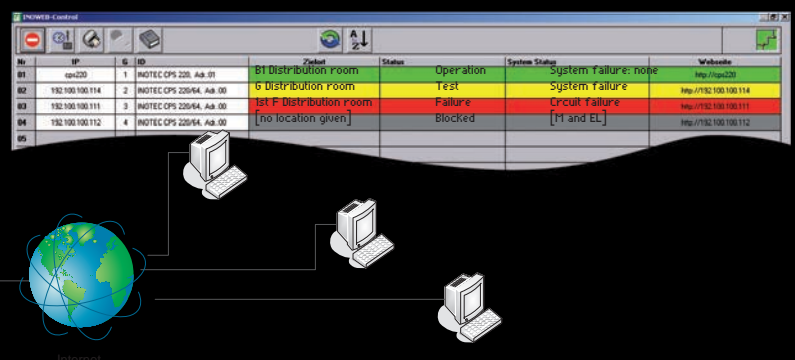
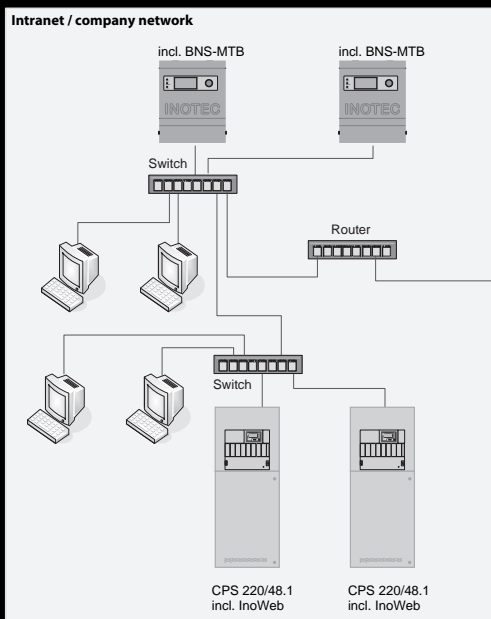
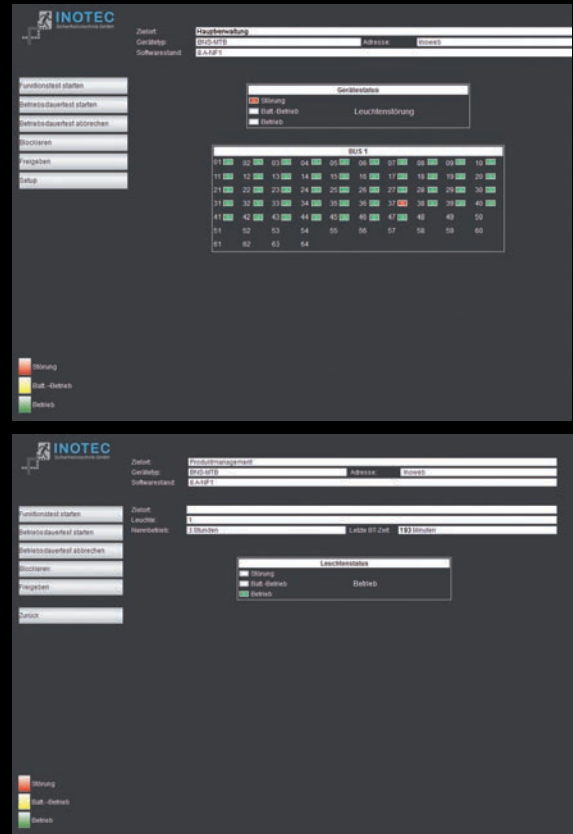
The self-contained luminaires are monitored by access via a web browser to the InoWeb functionality of the mimic panel. Each self-contained luminaire can be checked from the (optionally) password-protected website. When the InoWeb module is used, just one line with max 64 luminaires is available.

With an existing connection to the internet, monitoring is also possible using a PC with internet access. Please contact your regional technical sales team for a demonstration.

Functions:

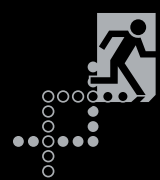
- Starting the function and battery duration test
- Blocking / releasing
- Displays individual luminaires with location

Using the InoWeb Control software, it is possible to monitor even complex installations with different system types from a central position. For this, the BNS-MTB with the optional InoWeb module must be integrated into the existing network.



InoWeb Control functionalities:

- Monitoring up to 32 INOTEC emergency lighting devices/ indicator panels
- Automatic function / battery duration test programmable
- Logbook function for all connected systems
- Automatic transmission of e-mails, at user-defined intervals, in case of test or failure
- Indication of overall status (all systems) through a symbol in the taskbar



Contacts

How to reach us



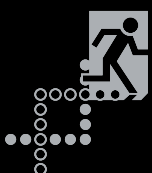
Our extensive sales network both at home ;
to help you with any queries and with the p
gency and safety lighting in your design projects.



For maintenance and servicing of your emergency
lighting systems, we have the whole of German
customer service operators in every region. In
this is handled by INOTEC-trained staff in o
Please do not hesitate to contact us if you c
solution for your problem in our product ra
find a project-specific solution to your requ

Find your contact at:
www.inotec-licht.de/

or contact us on:
Tel.: +49 - 29 38 - 97 30 - 0
Email: export@inotec-licht.de





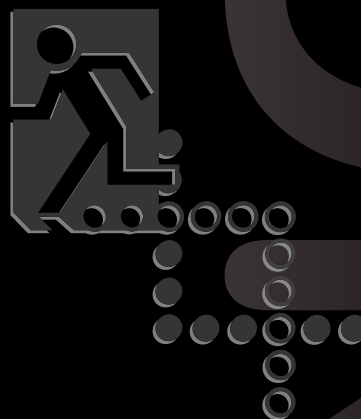
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