

CATALOGUE 2021



Gessler

Experts for emergency lighting

since 1975

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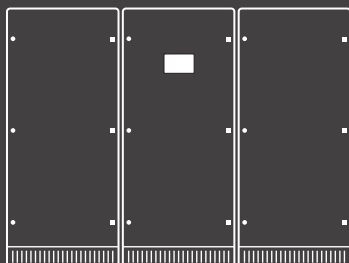
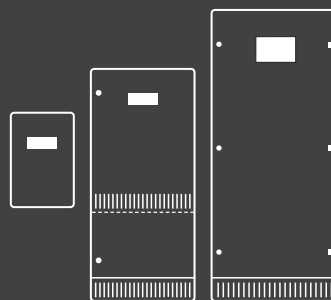
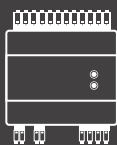
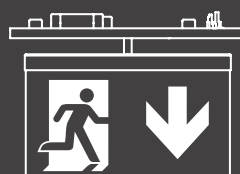
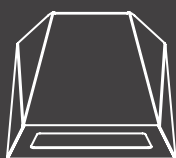
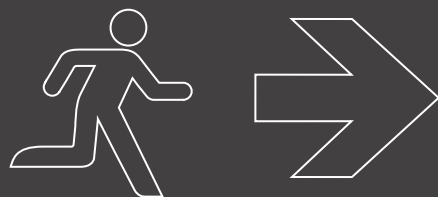
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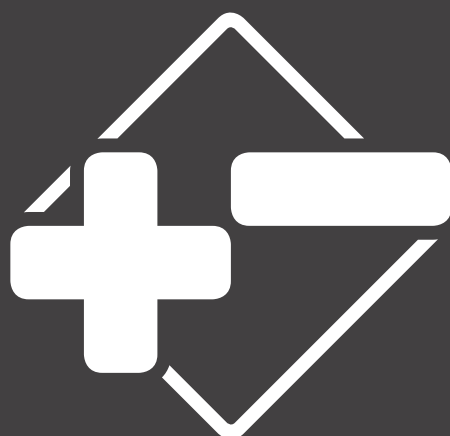
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ABOUT US



For the past 45 years, we have worked daily to extend our product range, to improve quality and to forge a real team of employees, now numbering 150. The Gessler team!

As the second generation of a family-run company, our employees are particularly close to our hearts. It is not self-evident for 14 different nationalities to pursue the same goal together and to do so daily with blood, sweat and tears.

We don't think in months or years, we think in generations. This corporate philosophy has allowed us to grow, even in difficult times. And we are proud of this.

We are specialists, service providers and problem solvers. But above all, we are the manufacturer of life-saving products. We are aware of this responsibility.

We are also a model for others to follow in a world which increasingly focuses on sustainability. We achieved our goal of "climate-neutral" production in 2018.

We say THANK YOU to all our customers, who like us, believe in Germany as a production location and by using "Made in Rodgau" products, help to ensure that it stays that way.

We are GESSLER.





"When it comes to safety,
we make no compromises."

Handwritten signature of Marcus Gessler in white ink.

Marcus Gessler
Managing Shareholder, Gessler GmbH



SUSTAINABLE PRODUCTS

LEED CERTIFIED EXIT SIGN AND EMERGENCY LUMINAIRES



The topic of climate protection has long since shifted to the top of society's agenda. Climate change is possibly the greatest challenge of our time. Closely linked to this is the need to handle our resources more efficiently. This circumstance has brought about a particularly future-orientated area of the construction industry – ecological building.

For the clients and designers of a building, this voluntary stewardship task is a new challenge. Guidelines and measures are required, which make the sustainability of these "green" buildings measurable. To this end, the U.S. Green Building Council has developed an independent certification programme called "LEED".

U.S. Green Building Council – USGBC

The U.S. Green Building Council (USGBC), a not-for-profit organisation founded by leading representatives of the construction industry, has set itself the goal of promoting the construction of environmentally-compatible, profitable and user-friendly buildings.



To further develop the methods of "green building", the USGBC started the "LEED certification".

Leadership in Energy and Environmental Design – LEED

LEED is an independent certification programme, which is recognised internationally as a reference for the planning, design, construction and running of high-quality "green" buildings. Within the scope of the LEED requirements system, points are accumulated, which enable subsequent classification of a building's degree of sustainability achieved.

Deutsche Bank – Greentowers project

The Greentowers of the Deutsche Bank are a trailblazer of ecological building. With one of the largest building modernisation projects in Europe, Deutsche Bank wants to make an active contribution to climate protection as part of its voluntary commitment to sustainability. The planning basis is the LEED guidelines of the USGBC.

The energy-optimised and LEED certified emergency lighting made by Gessler is part of the integrated concept. The USGBC awarded the Gessler exit sign and safety luminaires the gold award.

MADE IN RODGAU

Each year, around 400,000 exit sign and emergency luminaires leave our production buildings in Rodgau. Most of the products produced here have been awarded gold by the U.S. Green Building Council for "LEED - sustainable building"!

We have set ourselves the standard of only using materials that are 100 % recyclable. We achieved our objective of creating a sustainable and climate-neutral production facility in 2018. For us, the possibility of replacing the LED module of Gessler luminaires is just as much a given as your 10-year availability guarantee.





STANDARDS AND REGULATIONS

To achieve correct emergency lighting that is compliance with the standards in Germany, you have to master standards and regulations with around 1000 pages present. The continuous revision of existing national standards and standards valid throughout Europe make it virtually impossible to know the current situation.

We have set ourselves the task of guiding you through this standards jungle. As active members of workgroups of the DIN and DKE, we are pleased to pass on our knowledge to you in a simple and comprehensible way in the form of our standards and regulations booklet.

To keep the Gessler standards and regulations booklet up to date, we publish a revised edition with each standard amendment.

This is naturally also available for you to download from our website.

Several times a year we also pass on our knowledge "face-to-face". Our Gessler seminar days are renowned throughout Germany.

If you are interested in participating in our seminar days or in the printed version of our standards and regulations booklet, please contact us or send us an email to: vorschriften@gessler.de.

Your Gessler team





OUR REFERENCES

European Central Bank
Frankfurt am Main, Germany





The “Doppelturm” (twin tower) in Frankfurt’s Ostend district is already a new highlight in the city’s skyline. The building designed by the Viennese architects Coop Himmelb(l)au provides space for 2900 employees. The building is quite literally a highlight: The two glass towers are 165 and 185 metres high. The total gross floor area is around 185,000 square metres.

Even before construction began, it was clear that the Central Bank was to become a building that made careful use of energy and drinking water resources. For example, one requirement was for the building to use 30% less energy than required under the German Energy Saving Ordinance (“Energieeinsparverordnung” – EnEV).

To achieve this target, among other things, a highly thermally insulated building envelope, efficient sun control, use of rainwater and highly efficient heat recovery were required.

The complexity of this unusual building is also reflected in the emergency lighting standards. While the emergency lighting in the twisted twin office towers of the ECB is monitored by a Gessler ESPS system in DALI technology, in the so-called entrance structure (the former wholesale market hall) a Gessler DALI central battery system ensures safety.

The Viennese architects also had clear ideas for the design of the exit sign luminaires. Of the 1500 luminaires installed, more than 1000 are custom-made, and fit seamlessly in the award-winning interior design.



A-Rosa Grand Spa Resort Kitzbühel, Austria



In the middle of the Tyrolean mountain world, on grand terrain lies the Grand SPA Resort A-ROSA Kitzbühel in front of a divine alpine backdrop. The view of the picturesque panorama with Hahnenkamm und Streif peaks takes your breath away. In addition to the “European Property Award” conferred in London in the “Best Hotel Construction & Design” category for architecture, the 3,000 m² spa area recently also received the “SPA Diamond Award”. The standard of the architect and electrical designer to base the emergency lighting discreetly on the architecture was a challenge we were pleased to accept, and we mastered it extremely successfully. The operators trust a Gessler central battery system “Made in Germany”.

OpernTurm Frankfurt am Main, Germany

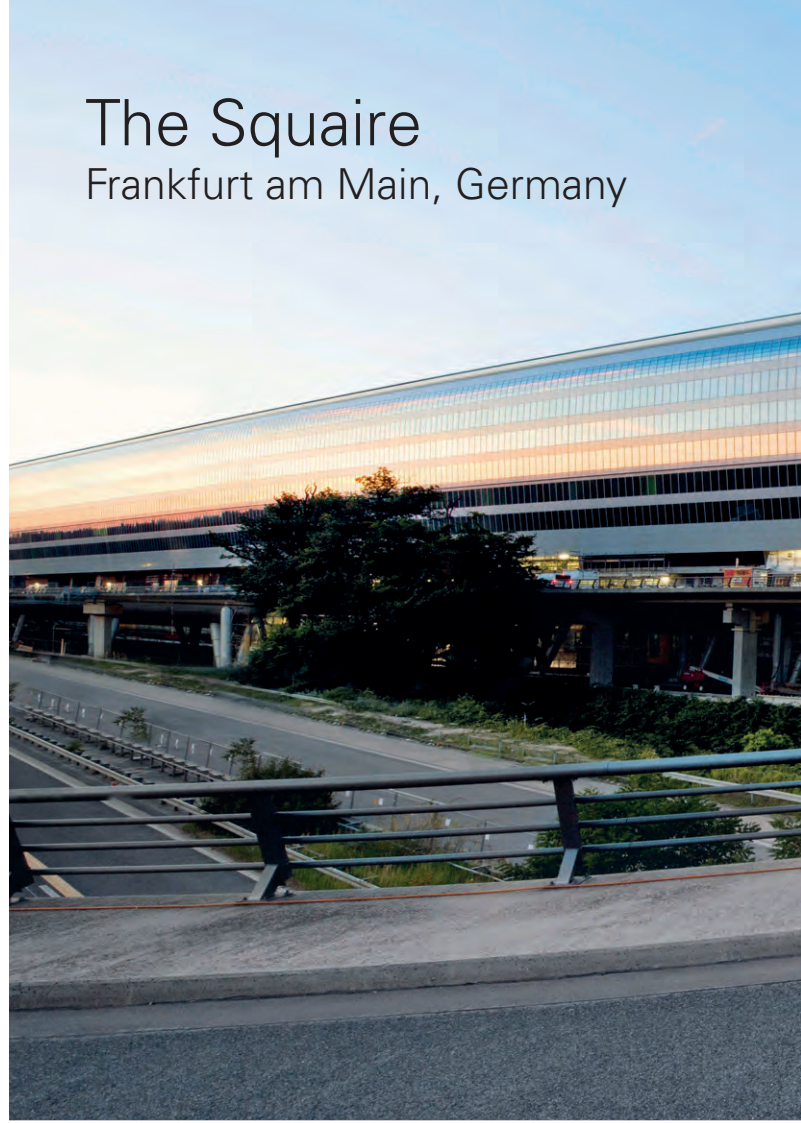


The OpernTurm symbolises the international image of the City of Frankfurt. Where business and culture meet, the landmark of the financial metropolis rises directly next to the old opera house. In an exclusive inner-city location, the “OpernTurm” (opera tower) offers its users office space at an international standard. It was one of the first new high-rise office buildings in Europe to be certified with the US LEED Gold environmental standard. On a site of approx. 10,300 m² and 42 storeys, 170 m high, the OpernTurm provides total of 66,000 m² space for high-end office and shop space. In total, 2 central units with 74 substations supply the approx. 4,000 monitored luminaires made by Gessler.

THE SQUAIRE is an architectural master stroke with connection to Frankfurt's airport and direct link to the largest motorway hub in Europe. The 660 metre long and nine storeys (45 metre) high building was built above the mainline railway station. In addition to 140,000 m² shopping space, the building also provides a 5-star hotel with 34,000m² and a new home for an auditing firm on 30,000m². In addition, 93,000m² office space and a catering area with over 5,700m² were created. Gessler central battery systems supply and monitor 30 substations and more than 300 emergency power distribution panels supplied from ESPSs. In total, 6,500 Gessler exit sign and emergency luminaires ensure the highest possible safety.

The Square

Frankfurt am Main, Germany





Zwinger Dresden, Germany



The Dresdner Zwinger is one of the most well-known Baroque buildings in Germany, and next to the Frauenkirche Church, it is the most famous building heritage site in the Saxon state capital. The “Gesamtkunstwerk” (total work of art) erected under the management of the architect Matthäus Daniel Pöppelmann and the sculptor Balthasar Permoser comprises architecture, statuary art and painting and is one of the most significant structures of the Baroque period. The Zwinger is now home to the Old Masters painting gallery, the Mathematical-Physical Salon, the Porcelain Collection and the Armoury. The operators trust in emergency luminaires and a direct current power supply system made by Gessler.

Nürburgring

Nürburg, Germany

Europe's most traditional race course, opened in 1927, was in operation in its original form with the around 28 km long legendary "mountain, racing and test route" until 1982. During the course of the "Nürburgring 2009" project, from 2007 the "World of Experience" building and the adjacent car park were demolished and the area surrounding the Nürburgring was modified and extended. Among other things, the Nürburgring is the venue for the famous "Rock am Ring" music festival, which attracts around 80,000 visitors annually. The new main stand provides space for 5,000 people. The VIP lounge with space for 600 persons is located in the top area. Gessler exit signs and emergency luminaires are supplied by 5 central battery systems and ensure an optimum safety standard at the Nürburgring.



Commerzbank Arena

Frankfurt am Main, Germany

The Commerzbank Arena is located on the site of its fantastic predecessor – the legendary Frankfurter Wald Stadium. The stadium, opened in 1925 and modernised many times since then, was re-erected as a pure football stadium within three years for the World Cup 2006. With a capacity of 51,500 spectators, it is one of the ten largest football stadiums in Germany. Four central battery systems and 20 substations ensure maximum safety along all escape routes.





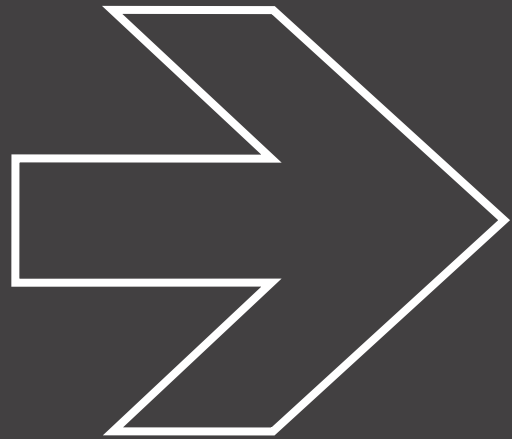
Mercedes-Benz Museum

Stuttgart, Germany



The building of the Mercedes-Benz Museum, winner of multiple awards, is home to the inheritance of the Mercedes-Benz brand. On nine levels with 16,500 m² present 160 breathtaking vehicles from more than 125 years of automotive history. This project was implemented with the engineering consultants Ingenieurbüro für Elektrotechnik Werner Schwarz GmbH, with particular imagination. At the request of the architects, the LED exit sign luminaires were installed recessed and flush with the wall surface (without all-round shadows). In the building's foyer, Gessler luminaires are installed with fine steel wires with a length of 4 m so that they "float".





EXIT SIGN LUMINAIRES

PRODUCT OVERVIEW



DISPLAY DG1
12 m | IP20
System | Rechargeable
battery
p. 34



DISPLAY P90
24 m | IP67
System | Rechargeable
battery
p. 46



DISPLAY 2200
22 m | IP41
System | Rechargeable
battery
p. 36



DISPLAY D91
31 m | IP41
System | Rechargeable
battery
p. 48



DISPLAY DR4
24 m | IP20 | IP41
System luminaire
p. 38



LUMINA 2000/5 | /7
18 m | 27 m | IP40
System | Rechargeable
battery
p. 50



DISPLAY DG3 | DG6
24 m | IP20 | IP41
Rechargeable battery
p. 40



LUMINA 2000/8 | /17
38 m | 56 m | IP40
System | Rechargeable
battery
p. 52 | p. 54



DISPLAY DG7 | DG5
31 m | IP20 | IP41
System | Rechargeable
battery
p. 42



LUMINA 2000/12
30 m | IP41
System | Rechargeable
battery
p. 56



DISPLAY D90
24 m | IP41
System | Rechargeable
battery
p. 44



LUMINA 2000/24
30 m | IP54
System | Rechargeable
battery
p. 58



PRION 22
22 m | IP40
System luminaire
p. 60



LUMINA 2000/26
38 m | IP54 | IK10
System luminaire
p. 76



PRION 32
32 m | IP40
System luminaire
p. 62



LUMINA 2000/27
38 m | IP40 | IK10
System | Rechargeable
battery
p. 78



FLATLIGHT FL1
30 m | IP41
System | Rechargeable
battery
p. 64



**EXIT SIGN LUMINAIRE
BR1 | BR2**
38 m | IP54 | IK10
System | Rechargeable
battery
p. 80 | p. 82



LUMINA 2000/1
16 m | IP44
System | Rechargeable
battery
p. 66



EXIT SIGN CUBE B35
35 m | IP54 | IK08
System | Rechargeable
battery
p. 84



LUMINA 2000/16
26 m | 27 m | IP54 | IK08
System | Rechargeable
battery
p. 68



EXIT SIGN CUBE W25
25 m | IP40 | IP54
System | Rechargeable
battery
p. 87



DISPLAY VISION
24 m | IP41
System | Rechargeable
battery
p. 70



EXIT SIGN CUBE W35
35 m | IP40 | IP54
System | Rechargeable
battery
p. 88



PATHFINDER VISION1
24 m | IP41
System luminaire
p. 72



EXIT SIGN CUBE W60
60 m | IP40
System luminaire
p. 89



PATHFINDER VISION2
24 m | IP41
System luminaire
p. 74

QUICKFINDER

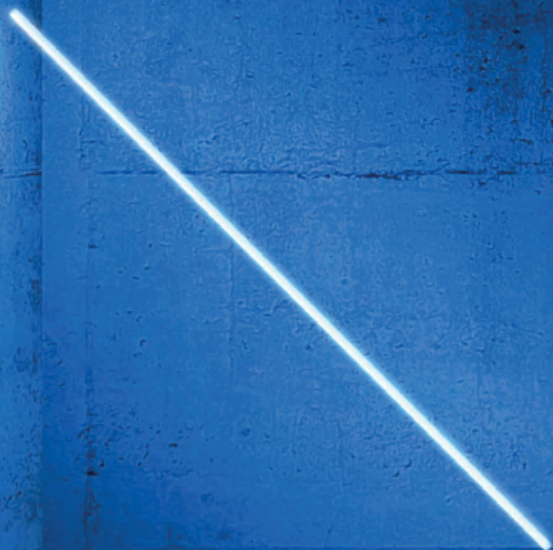
VIEWING DISTANCES + IP CLASSES

	IP20	IP40	IP41	IP44	IP54	IP67
12 m	DISPLAY DG1					
16 m				LUMINA 2000/1		
18 m		LUMINA 2000/5				
22 m		PRION 22	DISPLAY 2200			
24 m	DISPLAY DR4E DISPLAY DG6E		DISPLAY DR4 DISPLAY D90 DISPLAY VISION DISPLAY DG3 PFADFINDER V1 PFADFINDER V2			DISPLAY P90
25 m		EXIT SIGN CUBE W25			EXIT SIGN CUBE W25	
26 m					LUMINA 2000/16	
27 m		LUMINA 2000/7			LUMINA 2000/16	
30 m			FLATLIGHT FL1 LUMINA 2000/12		LUMINA 2000/24	
31 m	DISPLAY DG5E		DISPLAY D91 DISPLAY DG7			
32 m		PRION 32				
35 m		EXIT SIGN CUBE W35			EXIT SIGN CUBE W35 EXIT SIGN CUBE B35	
38 m		LUMINA 2000/08 LUMINA 2000/27			EXIT SIGN LUMINAIRE BR1 EXIT SIGN LUMINAIRE BR2 LUMINA 2000/26	
56 m		LUMINA 2000/17				
60 m		EXIT SIGN CUBE W60				

QUICKFINDER

TYPES OF INSTALLATION

	WALL	RECESSED WALL INSTALLATION	CEILING	RECESSED CEILING INSTALLATION	PENDANT	SUS- PENDE	SUSPENDED, RECESSED BASE	EYELET	WALL BRACKET
DISPLAY DG1				●					
DISPLAY 2200	●		●			●			
DISPLAY DR4	●		●	●	●	●	●	●	●
DISPLAY DG3	●		●		●	●	●	●	●
DISPLAY DG6				●					
DISPLAY DG7	●		●		●			●	●
DISPLAY DG5				●					
DISPLAY D90	●		●		●	●	●		
DISPLAY P90	●		●						
DISPLAY D91	●		●		●	●	●		
LUMINA 2000/5	●		●		●			●	●
LUMINA 2000/7	●		●		●			●	●
LUMINA 2000/8	●		●		●			●	●
LUMINA 2000/17	●		●		●			●	●
LUMINA 2000/12	●		●						
LUMINA 2000/24	●		●					●	●
PRION 22	●	●	●	●		●	●		
PRION 32	●	●	●	●		●	●		
FLATLIGHT FL1	●								
LUMINA 2000/1	●		●		●			●	●
LUMINA 2000/16	●		●					●	●
DISPLAY VISION	●		●	●	●	●		●	●
PFADFINDER V1	●		●	●					
PFADFINDER V2	●		●	●					
LUMINA 2000/26	●								
LUMINA 2000/27		●							
EXIT SIGN LUMINAIRE BR1	●		●						●
EXIT SIGN LUMINAIRE BR2			●						●
EXIT SIGN CUBE B35			●						●
EXIT SIGN CUBE W25			●		●	●		●	●
EXIT SIGN CUBE W35			●		●	●		●	●
EXIT SIGN CUBE W60			●			●		●	





DISPLAY DG1 ^{12 m} IP20



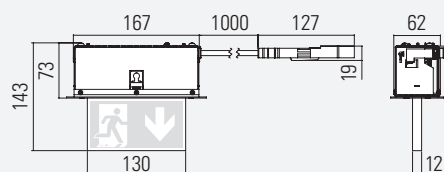
DISPLAY DG1

Our smallest exit sign luminaire must be seen to be believed. Despite the compact design, it has a viewing distance of 12 m. Designed for low ceilings and properties with high-end architecture.



DISPLAY DG1	SYSTEM LUMINAIRE	RECHARGEABLE BATTERY LUMINAIRE
Viewing distance	12 m	
Degree of protection	IP20	
Class	I	
Enclosure material	Sheet steel	
Enclosure colour/surface	RAL 9016 (white)	
Terminal block	3 x 2.5 ² for through wiring	
Light source	LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	9.8 VA/3.5 W	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery		4.8 V/0.8 Ah (NiMH)
VERSIONS		
1 h with auto-check with BUS check		•
3 h with auto-check with BUS check		•
8 h with auto-check with BUS check		
without monitoring module	•	
with monitoring module MERLIN and SIBELON systems only	•	
with DALI monitoring		
Cinema version Luminous flux in normal mode 10 %		
SPECIAL FEATURE		
Fast and easy installation due to the Wieland push-fit gesis® system		
OPTIONS /ACCESSORIES		
- Fascia made of brushed stainless steel - Other RAL colours on request		

DG1E RECESSED CEILING INSTALLATION



Ceiling cutout: 170 mm x 63 mm
Maximum ceiling thickness: 43 mm

DISPLAY 2200

22m
IP41



DISPLAY 2200

Discreetly in the background, but ready when it's needed. The surface-mounted enclosure can be pivoted continuously and is therefore not only suitable for mounting on the wall, but also on the ceiling. The free bright display panel is enclosed in a matt anodised enclosure made of aluminium.



DISPLAY 2200	SYSTEM LUMINAIRE	RECHARGEABLE BATTERY LUMINAIRE
Viewing distance	22 m	
Degree of protection	IP41	
Class	I	
Enclosure material	Aluminium	
Enclosure colour/surface	Silver anodised	
Terminal block	3 x 2.5 [□] for through wiring	
Light source	LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	6.6 VA/3.7 W	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery	4.8 V/0.8 Ah (NiMH)	

VERSIONS

1 h with auto-check with BUS check	•
3 h with auto-check with BUS check	•
8 h with auto-check with BUS check	
without monitoring module	•
with monitoring module	
with DALI monitoring	
Cinema version	
Luminous flux in normal mode 10 %	

SPECIAL FEATURE

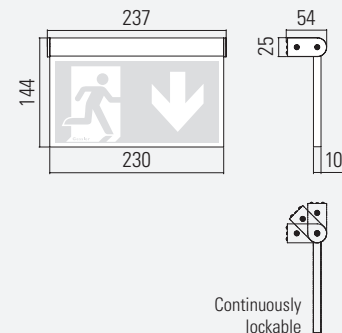
- Power supply via wire suspension
- Universal surface-mounting due to pivoted luminaire body

OPTIONS /ACCESSORIES

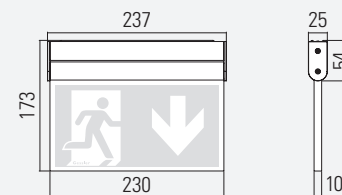
- Wire lengths up to 6 m
- Other RAL colours on request



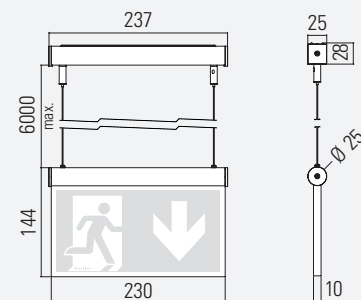
D22W WALL MOUNTED



D22D CEILING MOUNTED



D22S SUSPENDED



DISPLAY DR4

24 m
IP20 | IP41



green buildings
Gold certified exit sign
luminaire for "sustainable
building" according to
LEED

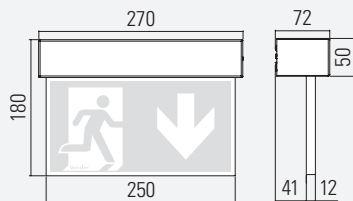
DISPLAY DR4

Show a clear edge. The Display DR4 is a real all-rounder. Whether design or option variety, this exit sign luminaire that has been awarded gold for sustainable building is convincing.

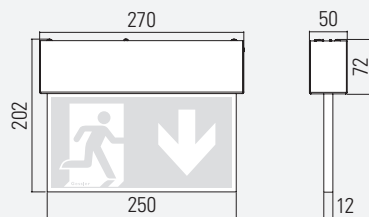


DISPLAY DR4	SYSTEM LUMINAIRE
Viewing distance	24 m
Degree of protection	IP20 (DR4E) IP41
Class	I
Enclosure material	Sheet steel
Enclosure colour/surface	RAL 9016 (white)
Terminal block	3 x 2.5 ² for through wiring
Light source	LED
Ambient temperature	-20° C to +40° C
Connected load (AC/DC)	10.0 VA/5.5 W
Supply voltage	Suspended surface mounted and suspended recessed installation with different connected load (AC/DC): 10.1 VA/6.0 W 230V ± 10 %, 50/60 Hz/176-275 V DC
VERSIONS	
1 h with auto-check with BUS check	
3 h with auto-check with BUS check	
8 h with auto-check with BUS check	
without monitoring module	•
with monitoring module	•
with DALI monitoring	•
Cinema version	
Luminous flux in normal mode 10 %	
SPECIAL FEATURE	
- Power supply via wire suspension	
OPTIONS /ACCESSORIES	
- Wire lengths up to 6 m - Enclosure made of brushed stainless steel - Ball guard - Other RAL colours on request	

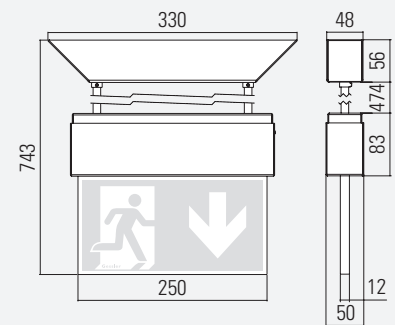
DR4W WALL MOUNTED



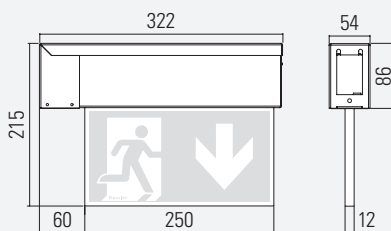
DR4D CEILING MOUNTED



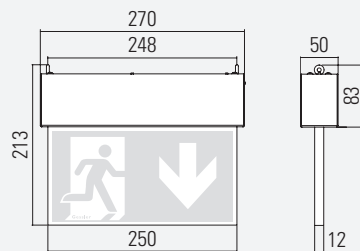
DR4P PENDANT



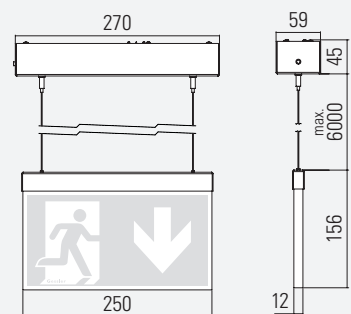
DR4A WALL BRACKET MOUNTING



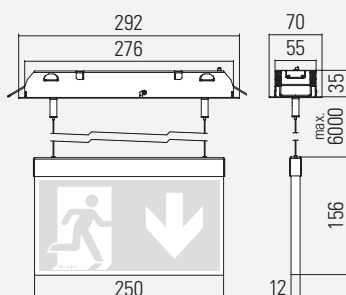
DR4Ö EYE INSTALLATION



DR4S SUSPENDED

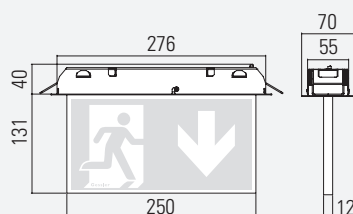


DR4F SUSPENDED, RECESSED BASE



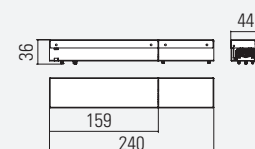
Ceiling cutout: 280 mm x 60 mm
Maximum ceiling thickness: 45 mm
Minimum clear ceiling height: 40 mm

DR4E RECESSED CEILING INSTALLATION



Ceiling cutout: 280 mm x 60 mm
Maximum ceiling thickness: 45 mm
Minimum clear ceiling height: 40 mm

JUNCTION BOX FOR DR4F + DR4E
(SUSPENDED, RECESSED BASE)



DISPLAY DG3 | DG6

24m
IP20 | IP41



DISPLAY DG3 | DG6

The Display DG3 | DG6 has a convincing linear design. Only available as a rechargeable battery version, the exit sign luminaire has 7 types of installation to choose from and so it is therefore the ideal exit sign luminaire for any place of use. Whether 1h, 3h or 8h stored energy time, our Display DG3 | DG6 is THE self-contained luminaire for every requirement. At least where design plays a role.



DISPLAY DG3 | DG6
RECHARGEABLE BATTERY LUMINAIRE

Viewing distance	24 m
Degree of protection	IP20 (DG6E) IP41 (DG3)
Class	I
Enclosure material	Sheet steel
Enclosure colour/surface	RAL 9016 (white)
Terminal block	3 x 2.5 ² for through wiring
Light source	LED
Ambient temperature	0° C to +40° C
Connected load (AC)	7.6 VA
Supply voltage (AC)	230V ± 10 %, 50/60 Hz
Rechargeable battery	3.6 V/2.5 Ah (NiCd)

VERSIONS

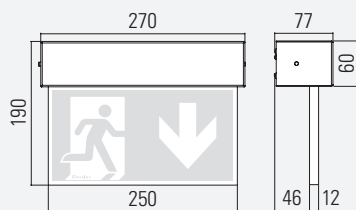
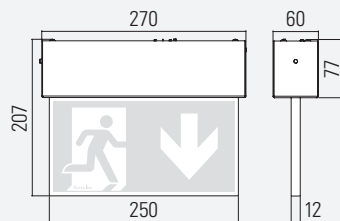
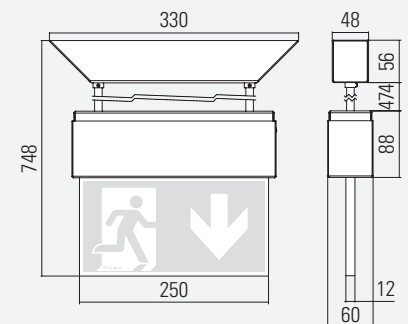
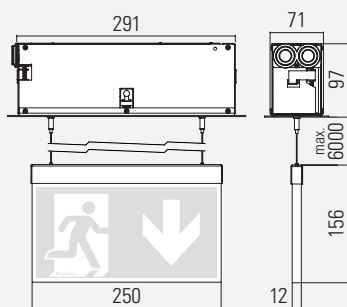
1 h with auto-check with BUS check	• •
3 h with auto-check with BUS check	• •
8 h with auto-check with BUS check	• •
without monitoring module	
with monitoring module	
with DALI monitoring	
Cinema version	•
Luminous flux in normal mode 10 %	

SPECIAL FEATURE

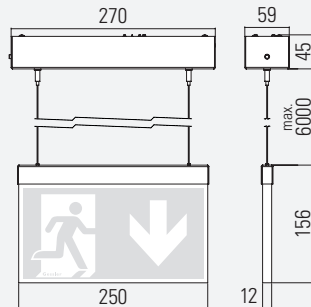
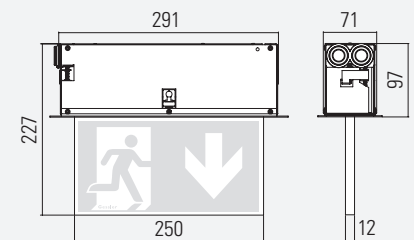
- Power supply via wire suspension

OPTIONS /ACCESSORIES

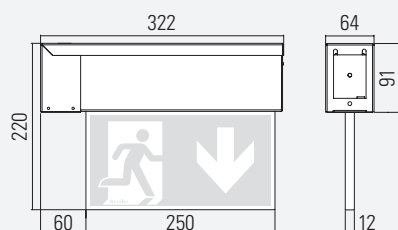
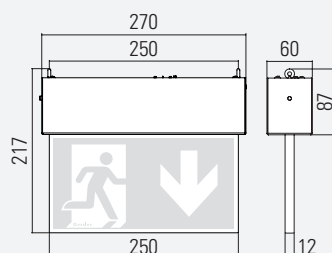
- Wire lengths up to 6 m | - Enclosure made of brushed stainless steel | - Ball guard | - Other RAL colours on request

DG3W WALL MOUNTED

DG3D CEILING MOUNTED

DG3P PENDANT

DG3F SUSPENDED, RECESSED BASE


Ceiling cutout: 295 mm x 75 mm
Maximum ceiling thickness: 43 mm

DG3S SUSPENDED

DG6E RECESSED CEILING INSTALLATION


Ceiling cutout: 295 mm x 75 mm
Maximum ceiling thickness: 43 mm

DG3A WALL BRACKET MOUNTING

DG3Ö EYE INSTALLATION


DISPLAY DG7 | DG5

31 m
IP20 | IP41



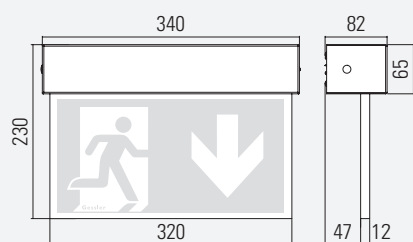
DISPLAY DG7 | DG5

With a viewing distance of 31 m, the Display DG7 | DG5 is unmissable. Whether as a system or rechargeable battery version, this exit sign luminaire is game-changing. Particularly suitable for shopping centres, schools and airports.

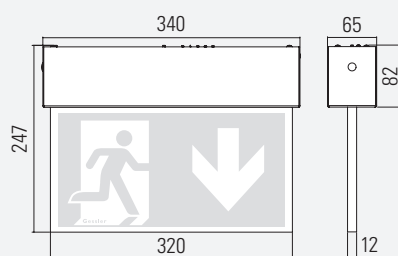


DISPLAY DG7 DG5	SYSTEM LUMINAIRE	RECHARGEABLE BATTERY LUMINAIRE
Viewing distance	31 m	
Degree of protection	IP20 (DG5E) IP41 (DG7)	
Class	I	
Enclosure material	Sheet steel	
Enclosure colour/surface	RAL 9016 (white)	
Terminal block	3 x 2.5 ² for through wiring	
Light source	LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	10.0 VA/5.5 W	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery		3.6 V/2.5 Ah (NiCd)
VERSIONS		
1 h with auto-check with BUS check		• •
3 h with auto-check with BUS check		• •
8 h with auto-check with BUS check		• •
without monitoring module	•	
with monitoring module	•	
with DALI monitoring	•	
Cinema version	•	
Luminous flux in normal mode 10 %		
OPTIONS /ACCESSORIES		
- Enclosure made of brushed stainless steel - Ball guard - Other RAL colours on request		

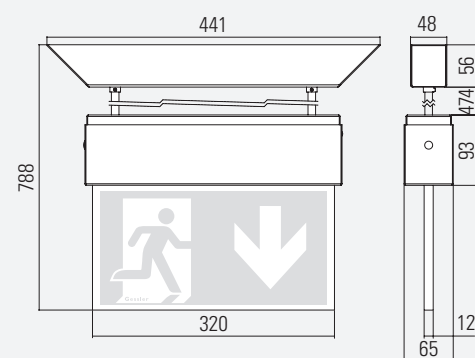
DG7W WALL MOUNTED



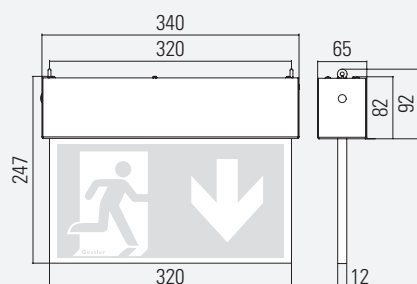
DG7D CEILING MOUNTED



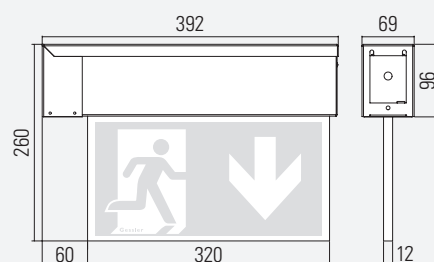
DG7P PENDANT



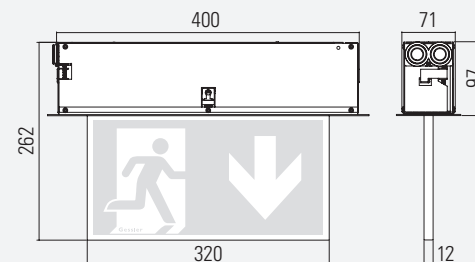
DG7Ö EYE INSTALLATION



DG7A WALL BRACKET MOUNTING



DG5E RECESSED CEILING INSTALLATION



Ceiling cutout: 405 mm x 75 mm
Maximum ceiling thickness: 43 mm

DISPLAY D90

24 m
IP41



DISPLAY D90

Beauty is debatable. But in the case of the Display D90 we are agreed. The brushed stainless steel enclosure is a highlight, in the hotel foyer, in the executive suite and any other building with high standards.



DISPLAY D90	SYSTEM LUMINAIRE	RECHARGEABLE BATTERY LUMINAIRE
Viewing distance	24 m	
Degree of protection	IP41	
Class	I	
Enclosure material	Stainless steel	
Enclosure colour/surface	brushed	
Terminal block	3 x 2.5 ² for through wiring	
Light source	LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	10.1 VA/6.0 W	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery	4.8 V/0.8 Ah (NiMH) W/C/R 3.6 V/2.5 Ah (NiCd) wire, recessed box	

VERSIONS

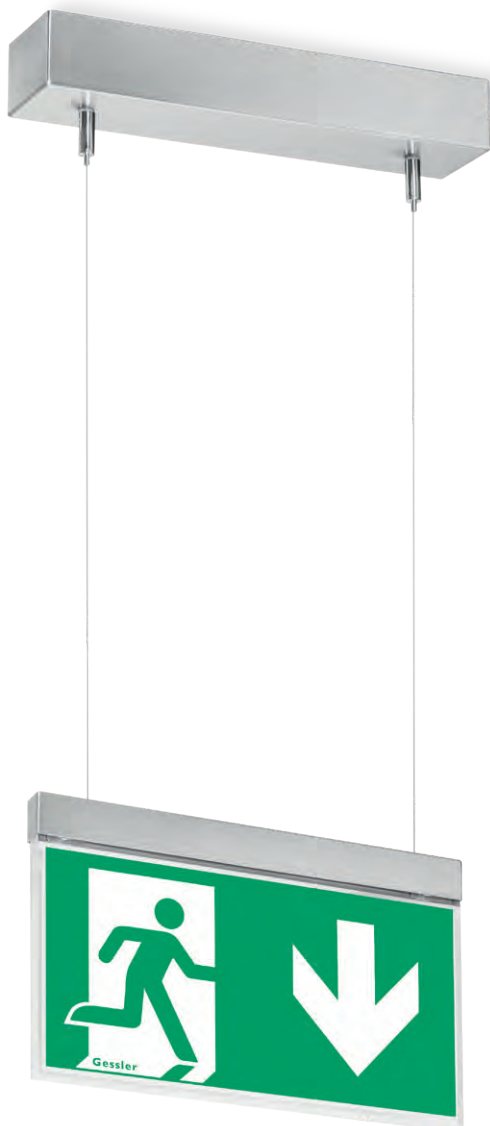
1 h with auto-check with BUS check	• •
3 h with auto-check with BUS check	• •
8 h with auto-check with BUS check	
without monitoring module	•
with monitoring module	•
with DALI monitoring	•
Cinema version	•
Luminous flux in normal mode 10 %	

SPECIAL FEATURE

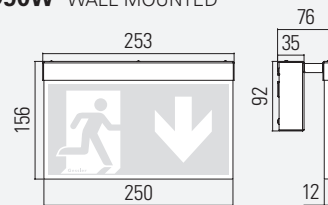
- Power supply via wire suspension

OPTIONS /ACCESSORIES

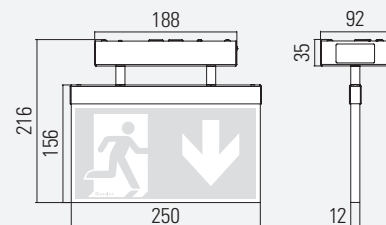
- Wire lengths up to 6 m
- Concrete adapter for surface-mounted installation
- Concrete casting box (DG6_BET)



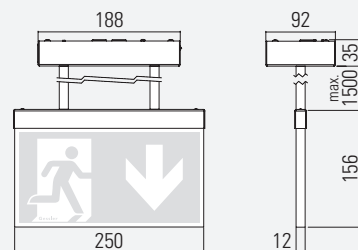
D90W WALL MOUNTED



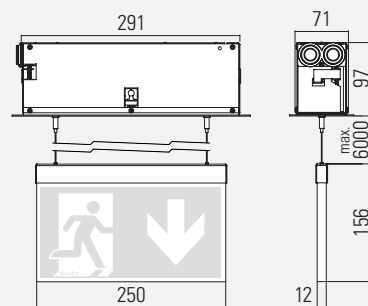
D90D CEILING MOUNTED



D90P PENDANT

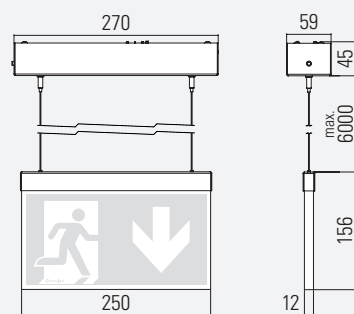


D90F SUSPENDED, RECESSED BASE



Ceiling cutout: 295 mm x 75 mm
Maximum ceiling thickness: 43 mm

D90S SUSPENDED



DISPLAY P90

24 m
IP67



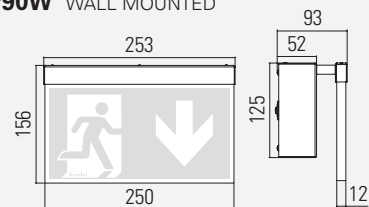
DISPLAY P90

What we intended when we developed a design luminaire in IP67? Nothing! It was our customers who gave us the idea. We say thank you for the inspiration for the P90.

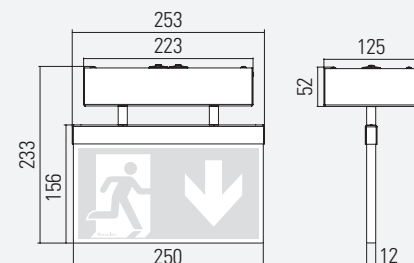


DISPLAY P90		SYSTEM LUMINAIRE	RECHARGEABLE BATTERY LUMINAIRE
Viewing distance		24 m	
Degree of protection		IP67	
Class		I	
Enclosure material		Stainless steel	
Enclosure colour/surface		brushed	
Terminal block		3 x 2.5 [□] for through wiring	
Light source		LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C	
Connected load (AC/DC)	10.1 VA/6.0 W		
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz	
Rechargeable battery		4.8 V/0.8 Ah (NiMH)	
VERSIONS			
1 h with auto-check with BUS check		• •	
3 h with auto-check with BUS check		• •	
8 h with auto-check with BUS check			
without monitoring module	•		
with monitoring module	•		
with DALI monitoring	•		
Cinema version	•		
Luminous flux in normal mode 10 %			
SPECIAL FEATURE			
- Very high degree of protection (IP67)			

P90W WALL MOUNTED



P90D CEILING MOUNTED



DISPLAY D91 31 m IP41



DISPLAY D91

The apple doesn't fall far from the tree. The large brother of the Display D90 also has a stylish presence in an equally elegant stainless steel enclosure. The Display D91 is available for 5 types of installation and also scores bonus points with its large viewing distance of 31 m.



DISPLAY D91 SYSTEM LUMINAIRE RECHARGEABLE BATTERY LUMINAIRE

Viewing distance	31 m	
Degree of protection	IP41	
Class	I	
Enclosure material	Stainless steel	
Enclosure colour/surface	brushed	
Terminal block	3 x 2.5 ² for through wiring	
Light source	LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	10.1 VA/6.0 W	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery	4.8 V/0.8 Ah (NiMH)	

VERSIONS

1 h with auto-check with BUS check	• •
3 h with auto-check with BUS check	• •
8 h with auto-check with BUS check	
without monitoring module	•
with monitoring module	•
with DALI monitoring	•
Cinema version	•
Luminous flux in normal mode 10 %	

SPECIAL FEATURE

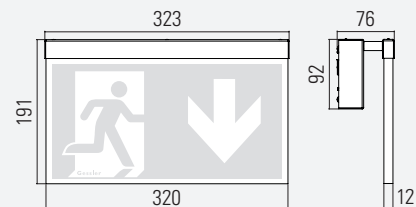
- Power supply via wire suspension

OPTIONS /ACCESSORIES

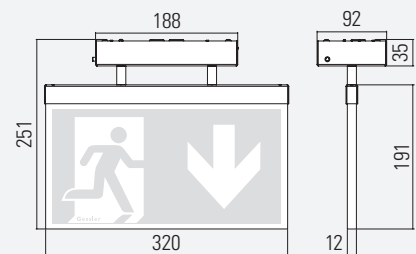
- Concrete adapter
- Concrete casting box



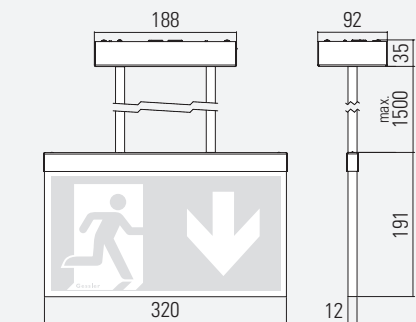
D91W WALL MOUNTED



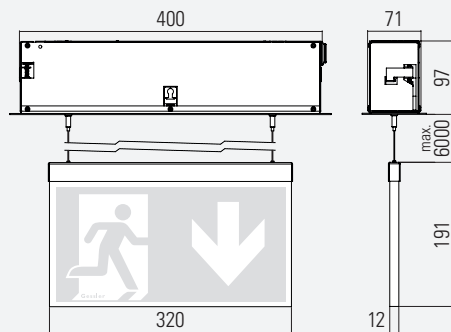
D91D CEILING MOUNTED



D91P PENDANT

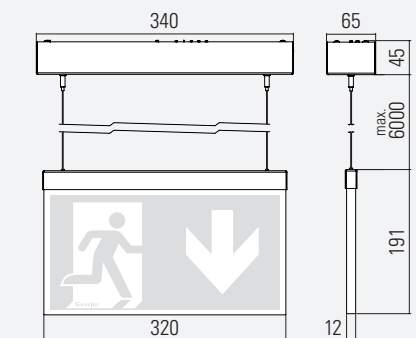


D91F SUSPENDED, RECESSED BASE



Ceiling cutout: 405 mm x 75 mm
Maximum ceiling thickness: 43 mm

D91S SUSPENDED



LUMINA 2000/5 | 7 18 m | 27 m IP40



LUMINA 2000/5 | 2000/7

The design classic. The tried and tested Profile luminaire series is available with four viewing distances. We are also still producing this series with the tried and tested window for downward light emission.



LUMINA 2000/5 2000/7	SYSTEM LUMINAIRE (2000/5)	SYSTEM LUMINAIRE (2000/7)	RECHARGEABLE BATTERY LUMINAIRE (2000/7)
Viewing distance	18 m	27 m	
Degree of protection	IP40	IP40	
Class	I	I	
Enclosure material	Aluminium	Aluminium	
Enclosure colour/surface	RAL 9016 (white)	RAL 9016 (white)	
Terminal block	3 x 2.5 ² for through wiring	3 x 2.5 ² for through wiring	
Light source	LED	LED	
Ambient temperature	-20° C to +40° C	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	10.0 VA/5.5 W	10.0 VA/5.5 W	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery			3.6 V/2.5 Ah (NiCd)

VERSIONS

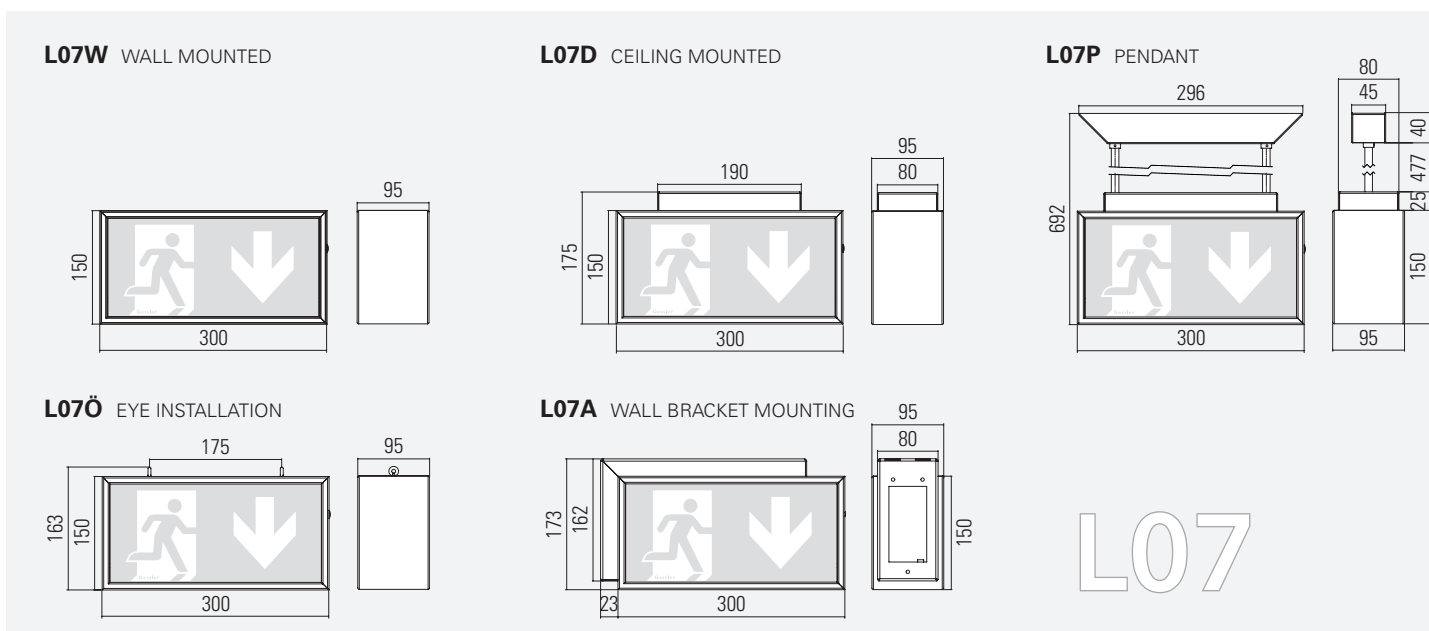
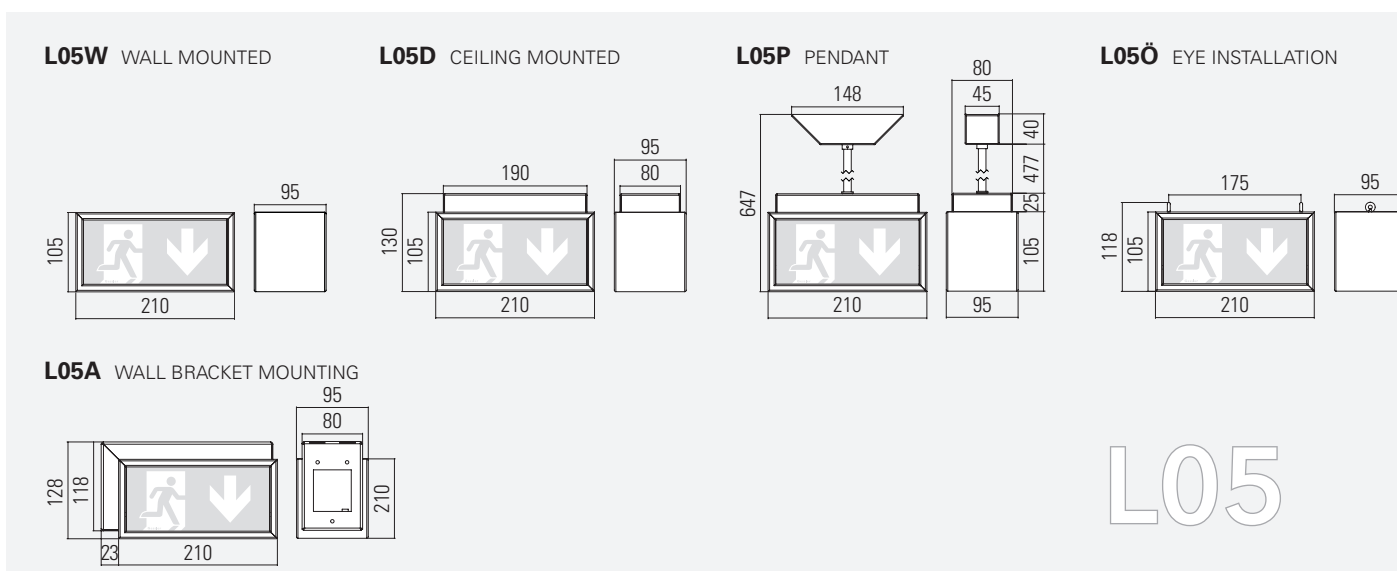
1 h with auto-check with BUS check			• •
3 h with auto-check with BUS check			• •
8 h with auto-check with BUS check			• •
without monitoring module	•	•	
with monitoring module	•	•	
with DALI monitoring	•	•	
Cinema version	•	•	
Luminous flux in normal mode 10 %			

SPECIAL FEATURE

- Pictogram set included | - Enclosure with additional window for downward light emission

OPTIONS /ACCESSORIES

- Ball guard | - Other RAL colours on request



LUMINA 2000/8

38 m
IP40



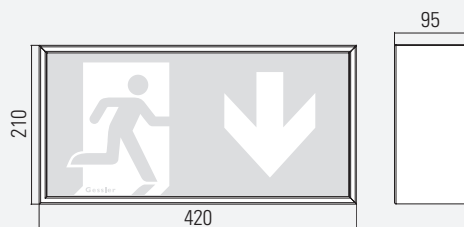
LUMINA 2000/8

Clear edge. Our design classic has been successful for 20 years and is also still produced with the tried and tested light emission window.

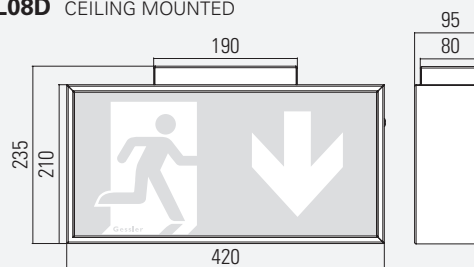


LUMINA 2000/8	SYSTEM LUMINAIRE	RECHARGEABLE BATTERY LUMINAIRE
Viewing distance	38 m	
Degree of protection	IP40	
Class	I	
Enclosure material	Aluminium	
Enclosure colour/surface	RAL 9016 (white)	
Terminal block	3 x 2.5 ² for through wiring	
Light source	LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	10.0 VA/5.5 W	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery		3.6 V/2.5 Ah (NiCd)
VERSIONS		
1 h with auto-check with BUS check		• •
3 h with auto-check with BUS check		• •
8 h with auto-check with BUS check		• •
without monitoring module	•	
with monitoring module	•	
with DALI monitoring	•	
Cinema version	•	
Luminous flux in normal mode 10 %		
SPECIAL FEATURE		
- Pictogram set included		
- Enclosure with additional window for downward light emission		
OPTIONS /ACCESSORIES		
- Ball guard		
- Other RAL colours on request		

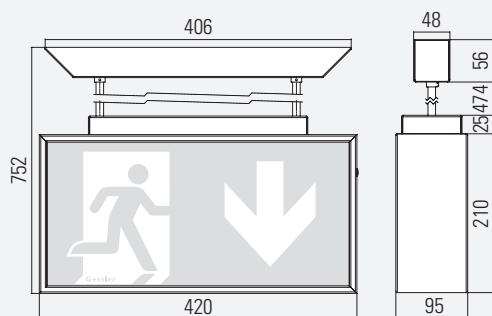
L08W WALL MOUNTED



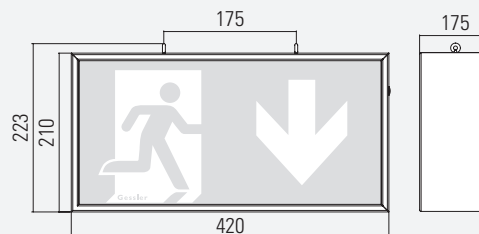
L08D CEILING MOUNTED



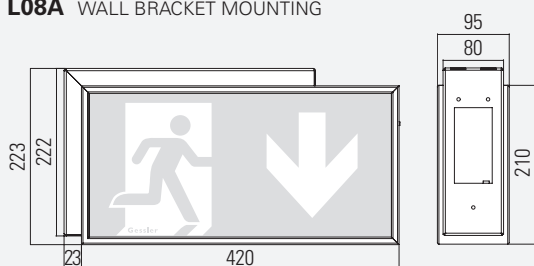
L08P PENDANT



L08Ö EYE INSTALLATION

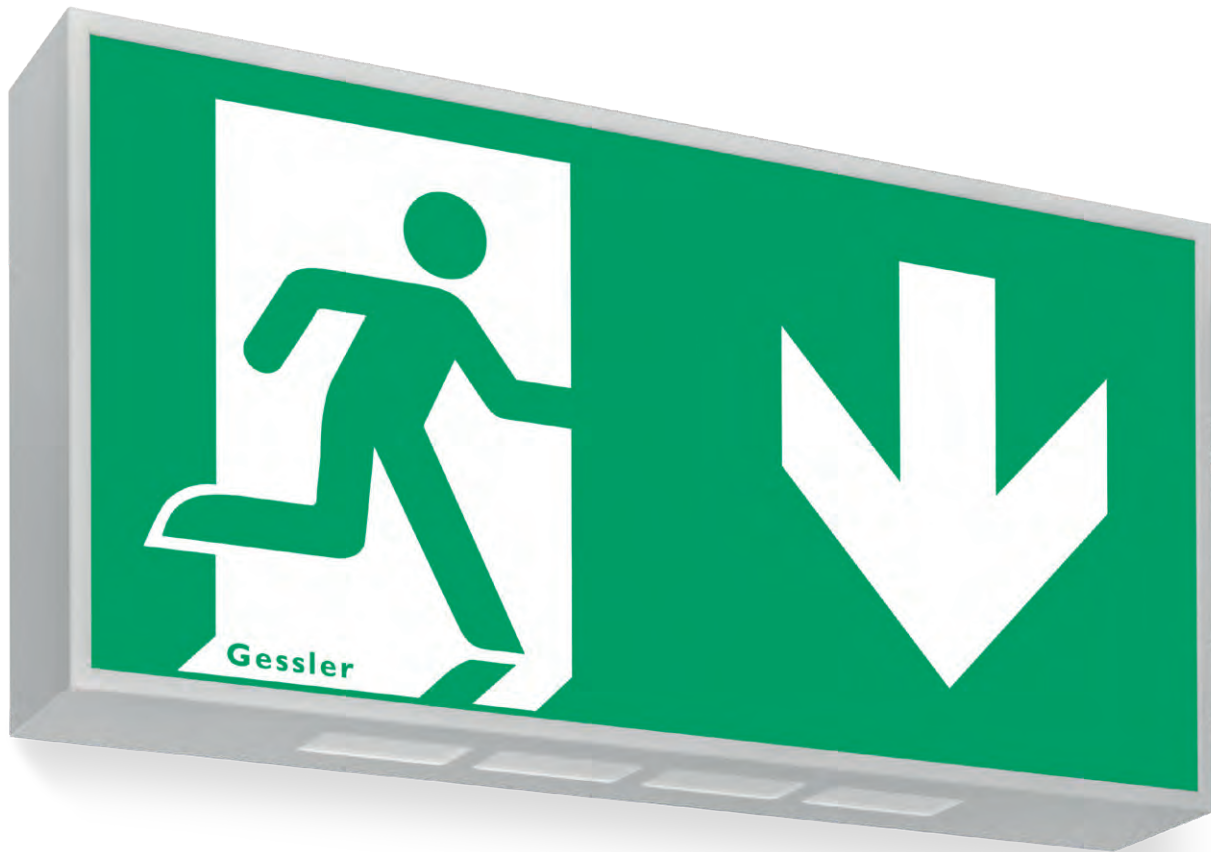


L08A WALL BRACKET MOUNTING



LUMINA 2000/17

56 m
IP40



LUMINA 2000/17

90/60/90 was yesteryear, 60/30/95 are the ideal dimensions of our 2000/17. With a viewing distance of 56 m, our largest exit sign luminaire is ideally suitable for shopping centres, railway stations and airports.



Viewing distance	56 m	
Degree of protection	IP40	
Class	I	
Enclosure material	Aluminium	
Enclosure colour/surface	RAL 9016 (white)	
Terminal block	3 x 2.5 ² for through wiring	
Light source	LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	13.2 VA/6.7 W	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery		3.6 V/4 Ah (NiCd)

VERSIONS

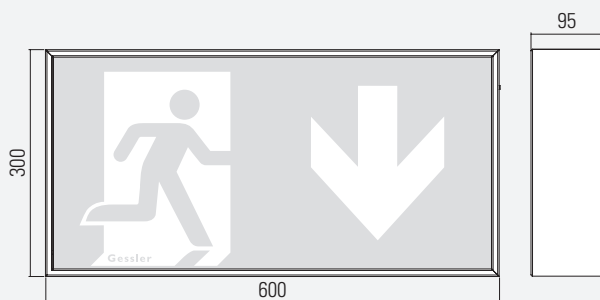
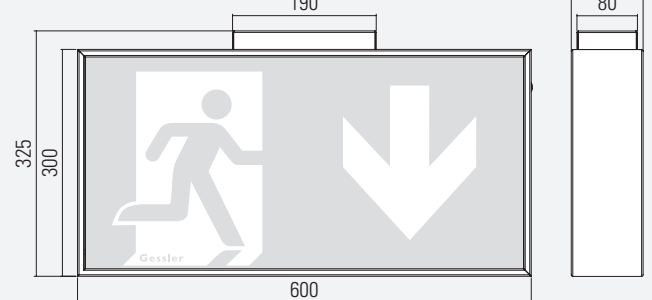
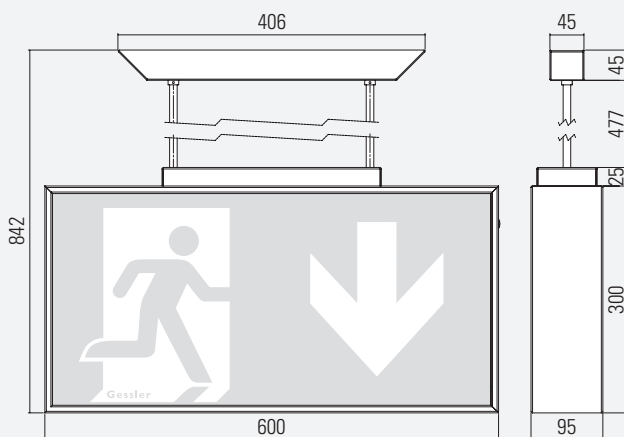
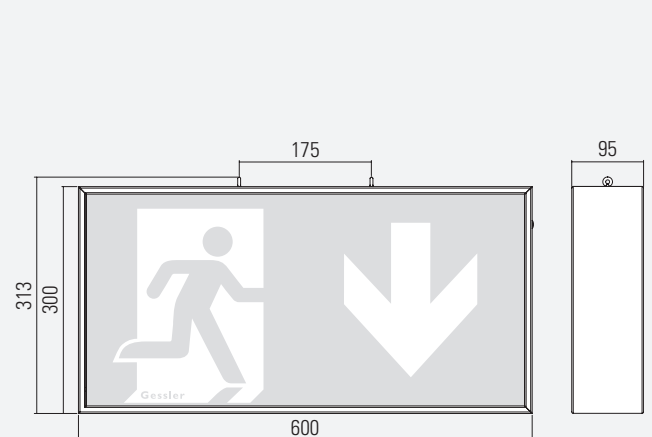
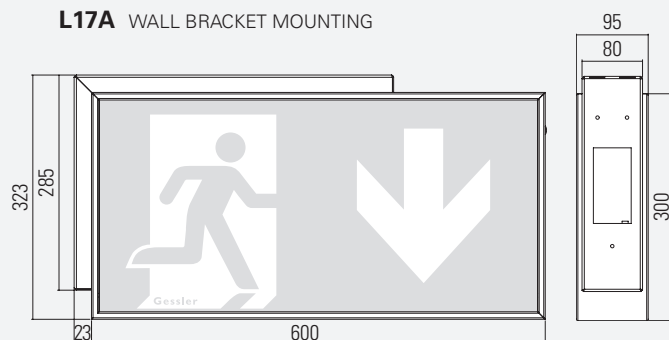
1 h with auto-check with BUS check		• •
3 h with auto-check with BUS check		• •
8 h with auto-check with BUS check		
without monitoring module	•	
with monitoring module	•	
with DALI monitoring	•	
Cinema version	•	
Luminous flux in normal mode 10 %		

SPECIAL FEATURE

- Enclosure with additional window for downward light emission

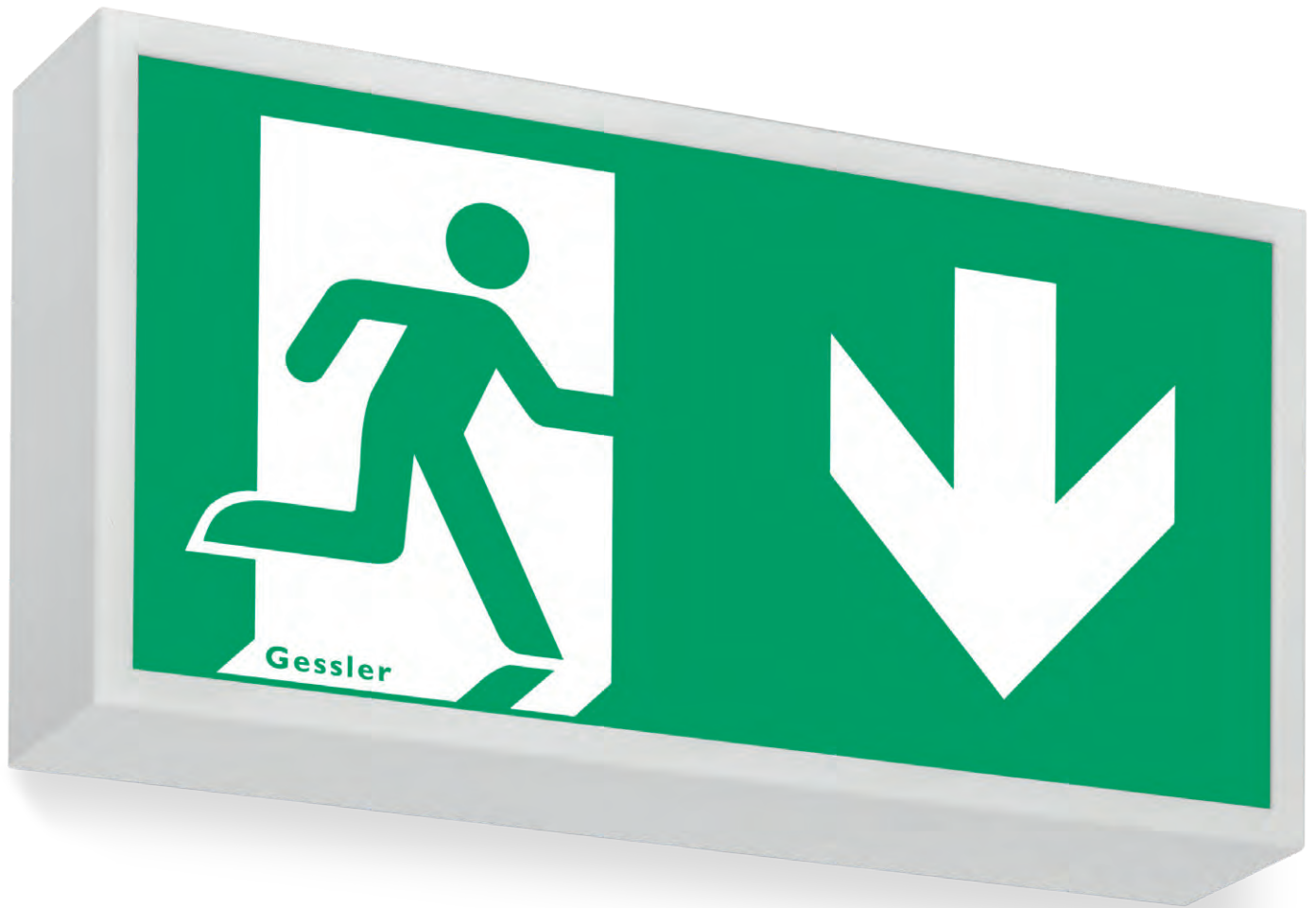
OPTIONS /ACCESSORIES

- Ball guard | - Other RAL colours on request

L17W WALL MOUNTED**L17D** CEILING MOUNTED**L17P** PENDANT**L17Ö** EYE INSTALLATION**L17A** WALL BRACKET MOUNTING

LUMINA 2000/12

30 m
IP41



LUMINA 2000/12

Square, practical, green. The CIE 93.2 is responsible for the latter. With the Lumina 2000/12, we have ensure that this green is still visible from a distance of 30 m.



LUMINA 2000/12		SYSTEM LUMINAIRE RECHARGEABLE BATTERY LUMINAIRE
Viewing distance	30 m	
Degree of protection	IP41	
Class	I	
Enclosure material	Aluminium	
Enclosure colour/surface	RAL 9016 (white)	
Terminal block	3 x 2.5 ² for through wiring	
Light source	LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	10.3 VA/5.6 W	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery	–	3.6 V/2.5 Ah (1h/3h) (NiCd)

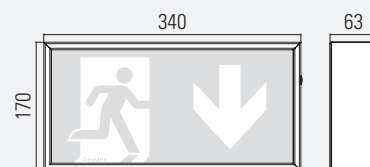
VERSIONS

1 h with auto-check with BUS check	• •
3 h with auto-check with BUS check	• •
8 h with auto-check with BUS check	
without monitoring module	•
with monitoring module	•
with DALI monitoring	
Cinema version	•
Luminous flux in normal mode 10 %	

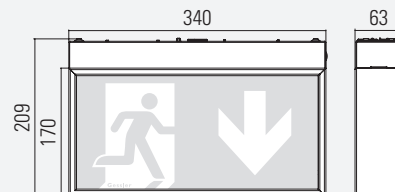
OPTIONS /ACCESSORIES

- Ball guard
- Other RAL colours on request

L12W WALL MOUNTED



L12D CEILING MOUNTED



LUMINA 2000/24

30 m
IP54



LUMINA 2000/24

It really clicks! Our Lumina 2000/24 can be opened (and closed again) without tools. Nonetheless, it has a high degree of protection. It doesn't matter if you mislay your screwdriver. That's real engineering performance "Made in Rodgau".



LUMINA 2000/24 SYSTEM LUMINAIRE RECHARGEABLE BATTERY LUMINAIRE

Viewing distance	30 m	
Degree of protection	IP54	
Class	I	
Enclosure material	Aluminium	
Enclosure colour/surface	RAL 9016 (white)	
Terminal block	3 x 2.5 ² for through wiring	
Light source	LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	10.0 VA/5.5 W	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery	3.6 V/2.5 Ah (NiCd)	

VERSIONS

1 h with auto-check with BUS check	• •
3 h with auto-check with BUS check	• •
8 h with auto-check with BUS check	• •
without monitoring module	•
with monitoring module	•
with DALI monitoring	•
Cinema version	•
Luminous flux in normal mode 10 %	

SPECIAL FEATURE

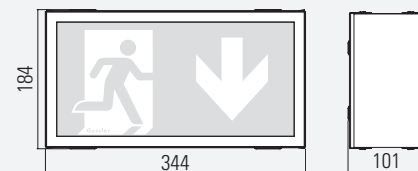
- High degree of protection (IP65)
- Enclosure can be opened/closed without tools

OPTIONS / ACCESSORIES

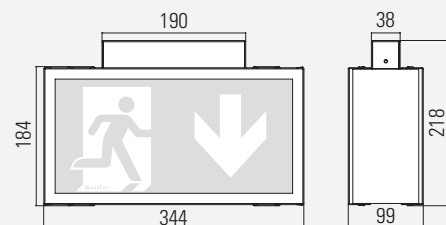
- Ball guard
- Other RAL colours on request



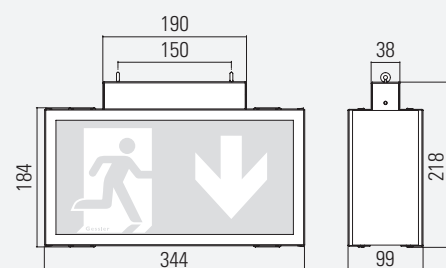
L24W WALL MOUNTED



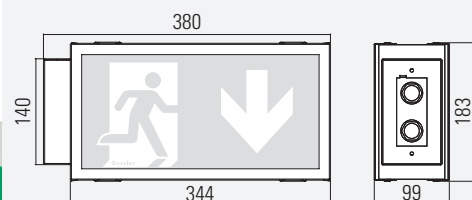
L24D CEILING MOUNTED



L24Ö EYE INSTALLATION



L24A WALL BRACKET MOUNTING



PRION 22 22m IP40



PRION 22

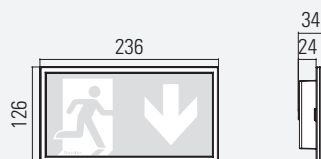
Beauty is in the eye of the beholder. We say that from now on, beauty hangs on the wall. Despite the small enclosure dimensions, the PRION 22 has the optimum viewing distance of 22m and is therefore particularly suitable for reception areas, corridors and event rooms.



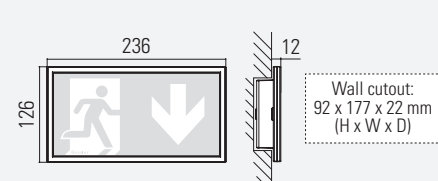
PRION 22	SYSTEM LUMINAIRE
Viewing distance	22 m
Degree of protection	IP40
Class	II
Enclosure material	Polycarbonate
Enclosure colour/surface	white
Terminal block	3 x 2.5 [□] for through wiring
Light source	LED
Ambient temperature	0° C to +40° C
Connected load (AC/DC)	4.5 VA / 4.0 W
Supply voltage	230V ± 10 %, 50/60 Hz / 176-275 V DC
VERSIONS	
1 h with auto-check with BUS check	
3 h with auto-check with BUS check	
8 h with auto-check with BUS check	
without monitoring module	•
with monitoring module	•
with DALI monitoring	
Cinema version	
Luminous flux in normal mode 10 %	
SPECIAL FEATURE	
- Power supply via wire suspension	
OPTIONS / ACCESSORIES	
- Wire lengths up to 6 m	
- Fire resistant box for installation in F30/90 fire resistant ceilings	
- Concrete installation box for installation in concrete ceilings	



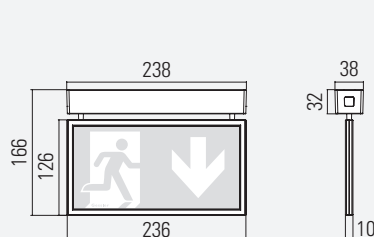
P22W WALL MOUNTED



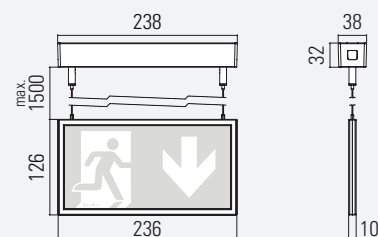
P22W RECESSED WALL INSTALLATION



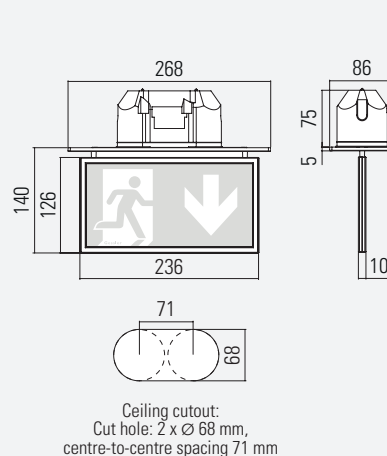
P22D CEILING MOUNTED



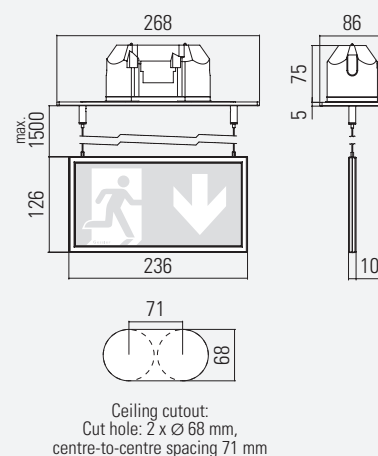
P22S SUSPENDED



P22E RECESSED CEILING INSTALLATION



P22F SUSPENDED, RECESSED BASE



PRION 32 ^{32m} IP40



PRION 32

Green is not only healthy. In the case of the PRION 32, green can also save lives. The large brother of the PRION 22 can still show the escape route from 32 m distance. It is particularly suitable for use in long corridors and large event halls.



PRION 32

SYSTEM LUMINAIRE

Viewing distance	32 m
Degree of protection	IP40
Class	II
Enclosure material	Polycarbonate
Enclosure colour/surface	white
Terminal block	3 x 2.5 ² for through wiring
Light source	LED
Ambient temperature	0° C to + 40° C
Connected load (AC/DC)	7.5 VA / 7.0 W
Supply voltage	230V ± 10 %, 50/60 Hz / 176-275 V DC

VERSIONS

1 h with auto-check | with BUS check

3 h with auto-check | with BUS check

8 h with auto-check | with BUS check

without monitoring module

•

with monitoring module

•

with DALI monitoring

Cinema version

Luminous flux in normal mode 10 %

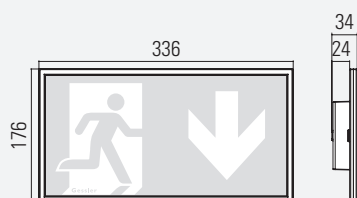
SPECIAL FEATURE

- Power supply via wire suspension

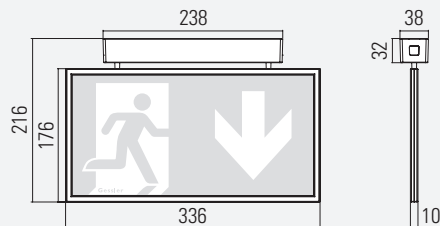
OPTIONS /ACCESSORIES

- Wire lengths up to 6 m
- Fire resistant box for installation in F30/90 fire resistant ceilings
- Concrete installation box for installation in concrete ceilings

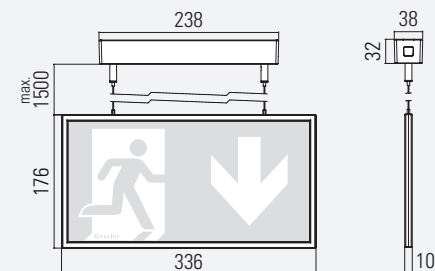
P32W WALL MOUNTED



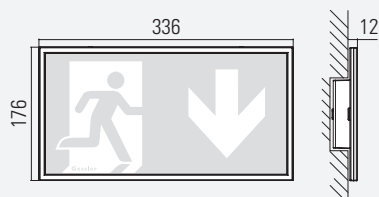
P32D CEILING MOUNTED



P32S SUSPENDED

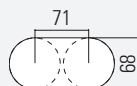
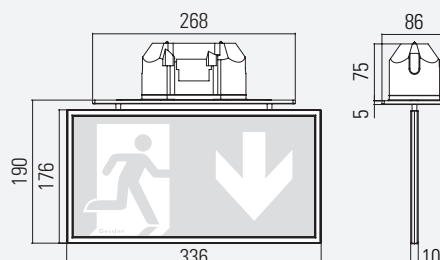


P32W RECESSED WALL INSTALLATION



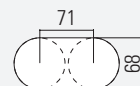
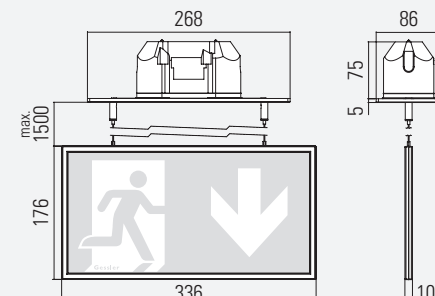
Wall cutout:
92 x 177 x 22 mm
(H x W x D)

P32E RECESSED CEILING INSTALLATION



Ceiling cutout:
Cut hole: 2 x Ø 68 mm,
centre-to-centre spacing 71 mm

P32F SUSPENDED, RECESSED BASE



Ceiling cutout:
Cut hole: 2 x Ø 68 mm,
centre-to-centre spacing 71 mm

FLATLIGHT FL1 30m IP41



FLATLIGHT FL1

What began as a feasibility study ended as the Flatlight FL1. With a 3 mm thick frame, homogeneous lighting, the enclosure is thinner than most smartphones. Particularly suitable in representative surroundings.



FLATLIGHT FL1	SYSTEM LUMINAIRE	RECHARGEABLE BATTERY LUMINAIRE
Viewing distance	30 m	
Degree of protection	IP41	
Class	I	
Enclosure material	Aluminium	
Enclosure colour/surface	Silver anodised	
Terminal block	3 x 2.5 [□] for through wiring	
Light source	LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	6.1 VA/3.5 W	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery	4.8 V/0.8 Ah (NiMH)	

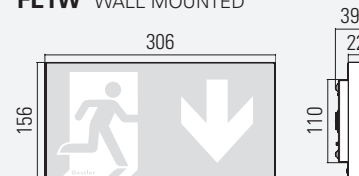
VERSIONS

1 h with auto-check with BUS check	•
3 h with auto-check with BUS check	•
8 h with auto-check with BUS check	
without monitoring module	•
with monitoring module	•
with DALI monitoring	
Cinema version	

SPECIAL FEATURE

- Unobtrusive all-round frame (3 mm)

FL1W WALL MOUNTED



LUMINA 2000/1

16 m
IP44



LUMINA 2000/1

Low ceilings or no space above the door? Then the Lumina 2000/1 is the right choice. The universal plastic enclosure is available in 5 installation types and despite its compact design, it has a viewing distance of 16 m.



LUMINA 2000/1	SYSTEM LUMINAIRE	RECHARGEABLE BATTERY LUMINAIRE
Viewing distance	16 m	
Degree of protection	IP44	
Class	I	
Enclosure material	Polycarbonate	
Enclosure colour/surface	white	
Terminal block	3 x 2.5 ² for through wiring	
Light source	LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	10.0 VA/5.5 W	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery	–	3.6 V/2.5 Ah (NiCd)
VERSIONS		
1 h with auto-check with BUS check		• •
3 h with auto-check with BUS check		• •
8 h with auto-check with BUS check		• •
without monitoring module	•	
with monitoring module	•	
with DALI monitoring	•	
Cinema version	•	
Luminous flux in normal mode 10 %		
OPTIONS /ACCESSORIES		
- Ball guard		

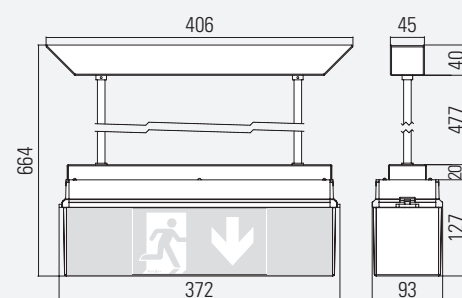
L01W WALL MOUNTED



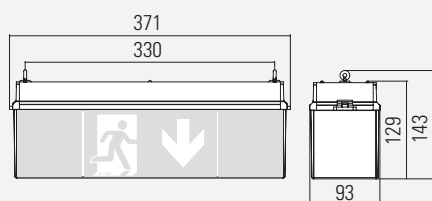
L01D CEILING MOUNTED



L01P PENDANT



L01Ö EYE INSTALLATION



L01A WALL BRACKET MOUNTING



LUMINA 2000/16

26 m | 27 m
IP54 | IK08



LUMINA 2000/16

The undisputed bestseller. With more than 1 million sold, our Lumina 2000/16 is a companion in everyday life. Look out for this luminaire. You will find it in football stadiums, multi-storey car parks and shopping centres. Since 2018, the rechargeable battery version has also been available with integrated heating (for outdoors). Your rechargeable battery will thank you for it.



LUMINA 2000/16 SYSTEM LUMINAIRE RECHARGEABLE BATTERY LUMINAIRE

Viewing distance	Wall: 26 m Ceiling: 27 m	
Degree of protection	IP54	
Impact resistance	IK08	
Class	I	
Enclosure material	Polycarbonate	
Enclosure colour/surface	white	
Terminal block	3 x 2.5 ² for through wiring	
Light source	LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	10.0 VA/5.5 W	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery	3.6 V/2.5 Ah (NiCd)	

VERSIONS

1 h with auto-check with BUS check with heating	• • •
3 h with auto-check with BUS check with heating	• • •
8 h with auto-check with BUS check with heating	• • •
without monitoring module	•
with monitoring module	•
with DALI monitoring	•
Cinema version	•
Luminous flux in normal mode 10 %	

SPECIAL FEATURE

- High degree of protection (IP54)
- Impact resistant housing

OPTIONS /ACCESSORIES

- Ball guard
- Integrated heating (to ensure the rechargeable battery function at low temperatures up to -40 °C, output 40 W)
- Remote supply unit (rechargeable battery luminaire) in temperature controlled area*

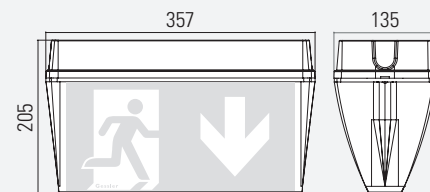


Optional: integrated heating for ensuring the rechargeable battery function at temperatures up to -40 °C

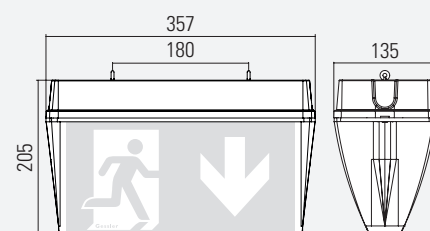
L16W WALL MOUNTED



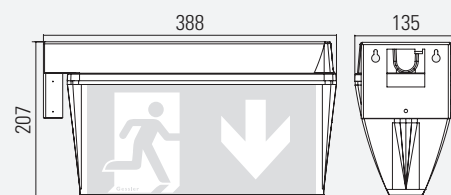
L16D CEILING MOUNTED



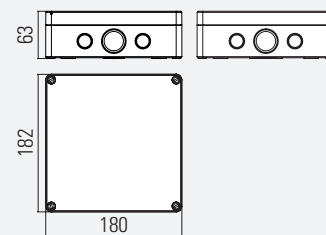
L16Ö EYE INSTALLATION



L16A WALL BRACKET MOUNTING



*REMOTE SUPPLY UNIT (OPTIONAL)



Remote supply unit for rechargeable battery luminaire for mounting in temperature-controlled indoor area. Cable length max. 4 m (2.5 mm²) provided on site.

DISPLAY VISION

24 m
IP41



Green buildings
Gold certified exit sign luminaire for
"sustainable building" according to LEED



DISPLAY VISION

The smart design luminaire has a convincingly slender enclosure and is a real universal genius with regard to the possible types of installation. The high energy efficiency makes the Display Vision an officially good choice for LEED certified construction projects.



DISPLAY VISION	SYSTEM LUMINAIRE	RECHARGEABLE BATTERY LUMINAIRE
Viewing distance	24 m	
Degree of protection	IP41	
Class	I	
Enclosure material	Polycarbonate	
Enclosure colour/surface	white	
Terminal block	3 x 2.5 [□] for through wiring	
Light source	LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	7.7 VA/4.3 W	
Supply voltage	230V ± 10 %, 50/60 Hz/ 176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery	4.8 V/0.8 Ah (NiMH)	

VERSIONS

1 h with auto-check with BUS check	•
3 h with auto-check with BUS check	•
8 h with auto-check with BUS check	
without monitoring module	•
with monitoring module for SIBELON systems only	•
with DALI monitoring	
Cinema version Luminous flux in normal mode 10 %	

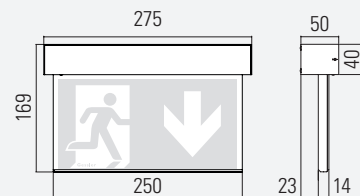
SPECIAL FEATURE

- Pictogram set included
- Universal enclosure for wall and ceiling installation

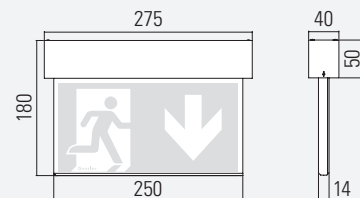
OPTIONS /ACCESSORIES

- Recessed enclosure, ceiling installation
- Pendant installation kit
- Eye installation kit
- Suspended installation kit

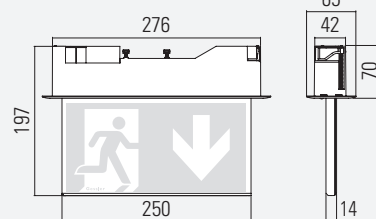
DV1U WALL MOUNTED



DV1U CEILING MOUNTED

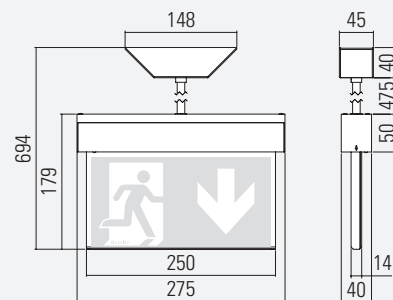


DV1E RECESSED CEILING INSTALLATION

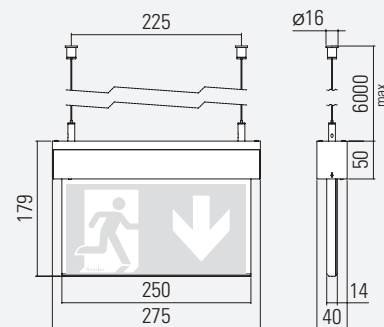


Ceiling cutout: 280 mm x 50 mm
Maximum ceiling thickness: 45 mm

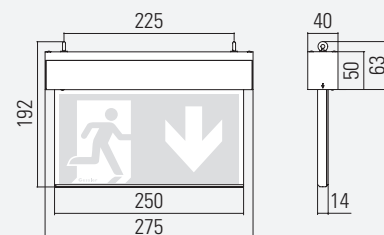
DV1P PENDANT



DV1S SUSPENDED



DV1Ö EYE INSTALLATION



PATHFINDER VISION 1 24 m IP41



PATHFINDER VISION 1

Pathfinder exit sign luminaires are coupled with the fire detection and fire alarm system, which enables dynamic escape route control. The escape route direction can only be seen if the luminaire is switched on. When switched off, the pictogram is a neutral white. In this way, escape routes can be switched on, off or switched over as and when necessary.



During normal operation, the pathfinder luminaire indicates the designated 1st escape route. Indication of the alternative 2nd escape route is not visible.

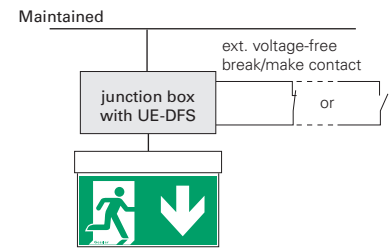


If a fire is detected by the fire detection and fire alarm system, the pathfinder luminaires can safely guide the escaping people from the danger zone. To this end, the alternative 2nd escape route is revealed. The indication of the 1st escape route in the danger zone is now not visible.

PATHFINDER VISION 1	SYSTEM LUMINAIRE
Viewing distance	24 m
Degree of protection	IP41
Class	I
Enclosure material	Polycarbonate
Enclosure colour/surface	white
Terminal block	3 x 2.5 [□] for through wiring
Light source	LED
Ambient temperature	-20° C to +40° C
Connected load (AC/DC)	7.4 VA/4.3 W
Supply voltage	230V ± 10 %, 50/60 Hz / 176-275 V DC
VERSIONS	
1 h with auto-check with BUS check	
3 h with auto-check with BUS check	
8 h with auto-check with BUS check	
without monitoring module	•
with monitoring module	•
with DALI monitoring	
Cinema version	
Luminous flux in normal mode 10 %	
SPECIAL FEATURE	
- Pictogram only visible when shone through	
- Actuation via external break/make contact	
OPTIONS /ACCESSORIES	
- Recessed enclosure, ceiling installation	

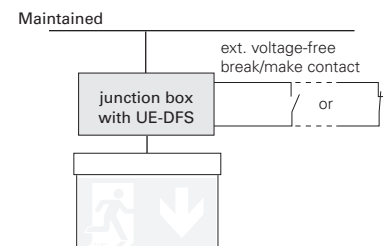
SCENE 1 – NORMAL CASE

The 1st escape route is indicated via the switched on luminaires. The luminaire for the alternative 2nd escape route is switched off and the sign is not visible.

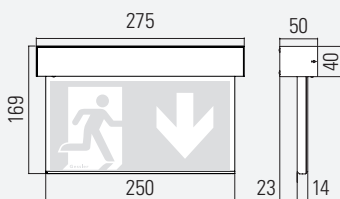


SCENE 2 – FIRE

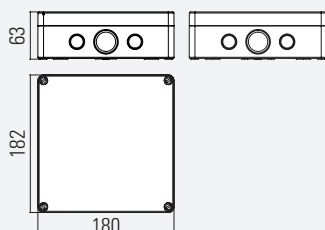
The alternative 2nd escape route is indicated via the switched on luminaire. The luminaires of the 1st escape route are switched off so that the sign becomes “blind” (not visible).



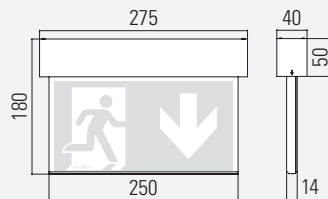
PV1U WALL MOUNTED



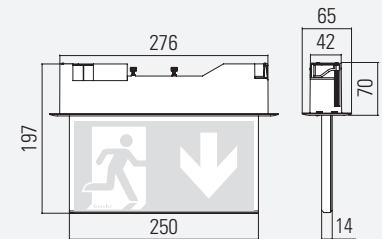
JUNCTION BOX
(with UE-DFS)



PV1U CEILING MOUNTED



PV1E RECESSED CEILING INSTALLATION



Ceiling cutout: 280 mm x 50 mm
Maximum ceiling thickness: 45 mm



PATHFINDER VISION 2

Pathfinder exit sign luminaires are coupled with the fire detection and fire alarm system, which enables dynamic escape route control. Depending on the situation, different escape routes can be indicated. Only the pictogram of the respective switched on pathfinder luminaire is visible. When switched off, the pictogram of the switched off luminaire is a neutral white.



During normal operation, the pathfinder luminaire indicates the designated 1st escape route. Indication of the alternative 2nd escape route is not visible.

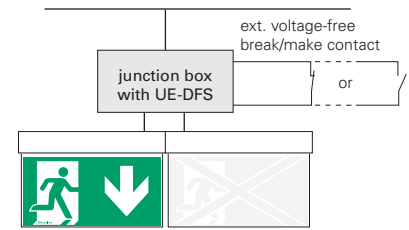


If a fire is detected by the fire detection and fire alarm system, the pathfinder luminaires can safely guide the escaping people from the danger zone. To this end, the alternative 2nd escape route is revealed. The indication of the 1st escape route in the danger zone is now not visible.

PATHFINDER VISION 2	SYSTEM LUMINAIRE
Viewing distance	24 m
Degree of protection	IP41
Class	I
Enclosure material	Polycarbonate
Enclosure colour/surface	white
Terminal block	3 x 2.5 [□] for through wiring
Light source	LED
Ambient temperature	-20° C to +40° C
Connected load (AC/DC)	7.4 VA/4.0 W
Supply voltage	230V ± 10 %, 50/60 Hz / 176-275 V DC
VERSIONS	
1 h with auto-check with BUS check	
3 h with auto-check with BUS check	
8 h with auto-check with BUS check	
without monitoring module	•
with monitoring module	•
with DALI monitoring	
Cinema version	
Luminous flux in normal mode 10 %	
SPECIAL FEATURE	
- Pictogram only visible when shone through	
- Actuation via external break/make contact	
OPTIONS /ACCESSORIES	
- Recessed enclosure, ceiling installation	

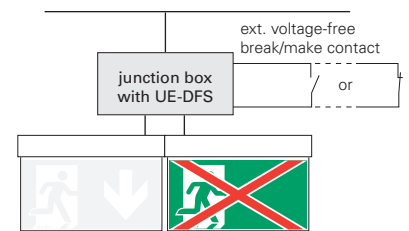
SCENE 1 – NORMAL CASE

The 1st escape route is indicated via the left display of the pathfinder luminaire. The representation of the alternative 2nd escape route is not visible.

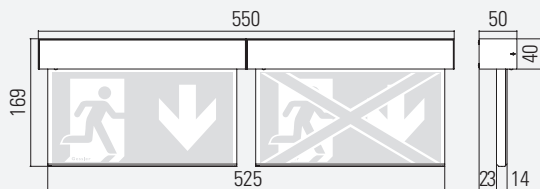


SCENE 2 – FIRE

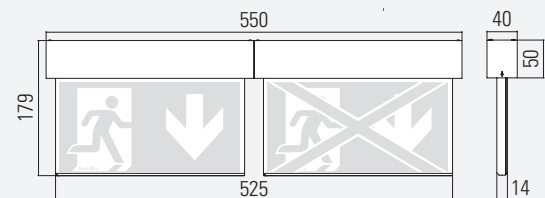
The representation of the alternative 2nd escape route is switched on via an external break/make contact. This makes the indication of the 1st escape route not visible.



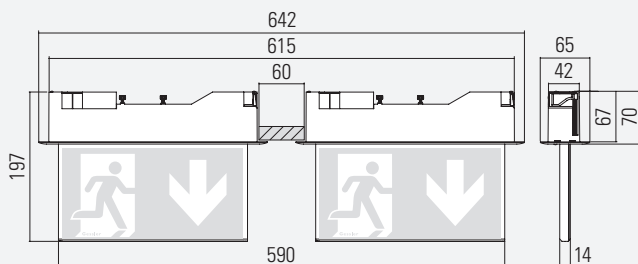
PV2U WALL MOUNTED



PV2U CEILING MOUNTED

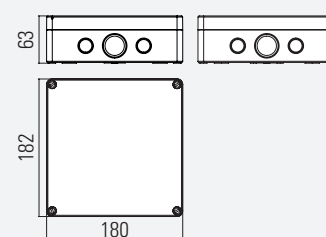


PV2E RECESSED CEILING INSTALLATION



Ceiling cutout: 2 x 280 mm x 50 mm (at least 60 mm spacing)
Maximum ceiling thickness: 45 mm

JUNCTION BOX (with UE-DFS)



LUMINA 2000/26

38 m
IP54 | IK10



LUMINA 2000/26

The exit sign luminaire resistant to ball throwing has a viewing distance of 38 m and is equipped with an impact resistant polycarbonate cover. This exit sign luminaire is indestructible. Suitable in sports facilities for football, handball and basketball.



LUNINA 2000/26	SYSTEM LUMINAIRE
Viewing distance	38 m
Degree of protection	IP54
Impact resistance	IK10
Class	I
Enclosure material	Sheet steel
Enclosure colour/surface	RAL 9016 (white)
Terminal block	3 x 2.5 [□] for through wiring
Light source	LED
Ambient temperature	-20° C to +40° C
Connected load (AC/DC)	17.5 VA/8.2 W
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC

VERSIONS

1 h with auto-check with BUS check	
3 h with auto-check with BUS check	
8 h with auto-check with BUS check	
without monitoring module	•
with monitoring module	•
with DALI monitoring	•
Cinema version	•
Luminous flux in normal mode 10 %	

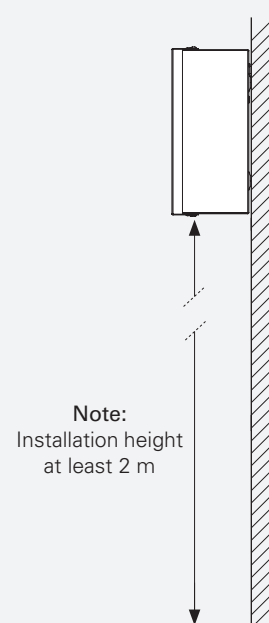
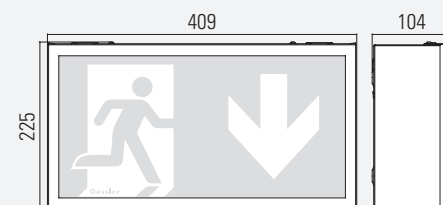
SPECIAL FEATURE

- Pictogram set included
- Enclosure resistant to ball throwing - suitable for sports facilities

OPTIONS /ACCESSORIES

- Other RAL colours on request

L26W WALL MOUNTED



LUMINA 2000/27

38 m
IP40 | IK10



LUMINA 2000/27

In sports facilities it's not unusual for a ball to miss its target. Not a problem for the Lumina 2000/27, because the exit sign luminaire was especially developed for installation in rebound walls, and thanks to its impact resistant polycarbonate cover, it skilfully repels even the hardest shots.



LUMINA 2000/27	SYSTEM LUMINAIRE	RECHARGEABLE BATTERY LUMINAIRE
Viewing distance	38 m	
Degree of protection	IP40	
Impact resistance	IK10	
Class	I	
Enclosure material	Sheet steel	
Enclosure colour/surface	RAL 9016 (white)	
Terminal block	3 x 2.5 [□] for through wiring	
Light source	LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	17.5 VA/8.2 W	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery	3.6 V/4 Ah (NiCd)	

VERSIONS

1 h with auto-check with BUS check		• •
3 h with auto-check with BUS check		• •
8 h with auto-check with BUS check		
without monitoring module	•	
with monitoring module	•	
with DALI monitoring	•	
Cinema version	•	
Luminous flux in normal mode 10 %		

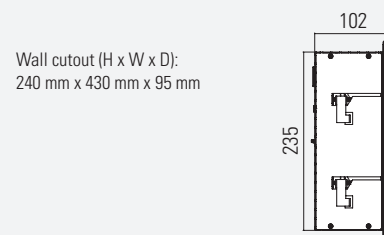
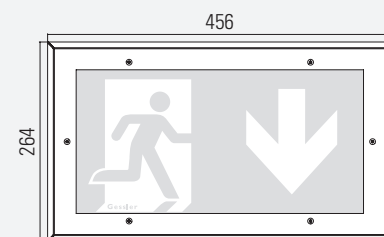
SPECIAL FEATURE

- Pictogram set included
- Enclosure resistant to ball throwing - suitable for sports facilities

OPTIONS / ACCESSORIES

- Other RAL colours on request

L27E RECESSED WALL INSTALLATION



Easy installation due to height-adjustable fastening clips

Rechargeable battery luminaire with LED status display

EXIT SIGN LUMINAIRE BR1 ^{38 m} IP54 | IK10



EXIT SIGN LUMINAIRE BR1

Vandalism is a problem. The BR series is our answer. Thanks to the reinforced enclosure body, the impact resistant polycarbonate cover and an additional seal against water splashes, the BR1 is ideally suitable for use in public areas.



EXIT SIGN LUMINAIRE BR1	SYSTEM LUMINAIRE	RECHARGEABLE BATTERY LUMINAIRE
Viewing distance		38 m
Degree of protection		IP54
Impact resistance		IK10
Class		II
Enclosure material		Sheet steel
Enclosure colour/surface		RAL 9016 (white)
Terminal block		3 x 2.5 ² for through wiring
Light source		LED
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	12.05 VA/7.1 W	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery		3.6 V/2.5 Ah (NiCd)

VERSIONS

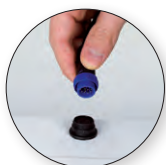
1 h with auto-check with BUS check		• •
3 h with auto-check with BUS check		
8 h with auto-check with BUS check		
without monitoring module	•	
with monitoring module	•	
with DALI monitoring		
Cinema version		
Luminous flux in normal mode 10 %		

SPECIAL FEATURE

- High degree of protection (IP54)
- The luminaire head can be dismantled as a closed unit
- Impact resistant enclosure with additional window for downward light emission
- Voltage-free fault indication contact (rechargeable battery luminaire)
- Pictogram set included

OPTIONS /ACCESSORIES

- Other RAL colours on request



Supply unit

As rechargeable battery luminaire with optional voltage-free signalling contact

Variable length

Can be shortened on site and adapted to the local circumstances

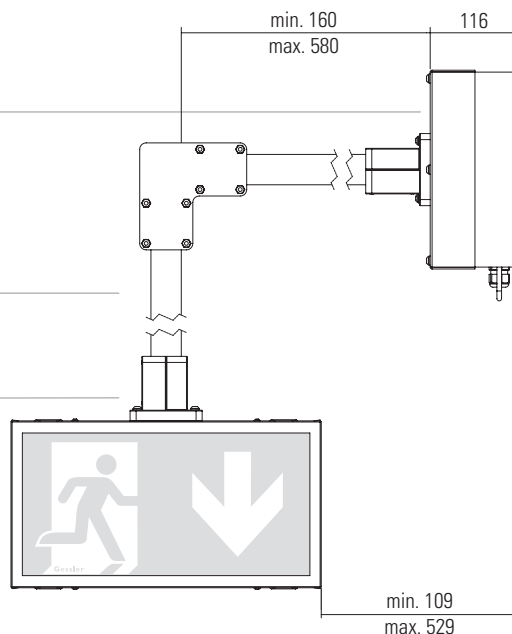
Coupling

The LED cube head can be uncoupled, if necessary, using a special key

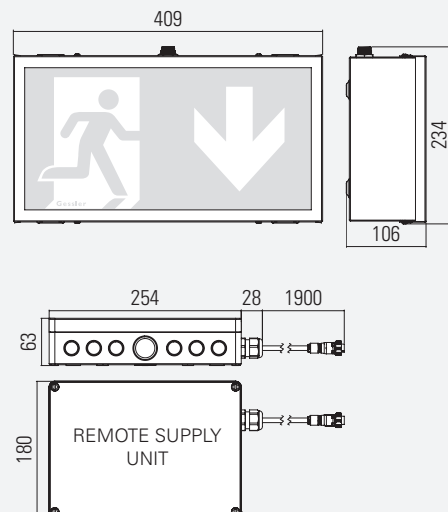
Vandalproof cube head

made of impact resistant polycarbonate

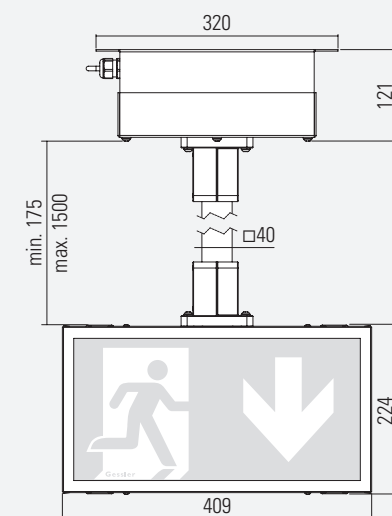
WALL BRACKET MOUNTING



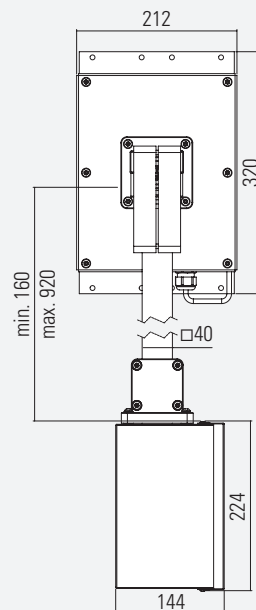
BR1W WALL MOUNTED



BR1D CEILING MOUNTED



BR1A WALL BRACKET MOUNTING



EXIT SIGN LUMINAIRE BR2 ^{38 m} IP54 | IK10



EXIT SIGN LUMINAIRE BR2

Vandalism is a problem. The BR series is our answer. Thanks to the reinforced enclosure body, the impact resistant polycarbonate cover and an additional seal against water splashes, the double-sided BR2 is ideally suitable for use in public areas.



EXIT SIGN LUMINAIRE BR2	SYSTEM LUMINAIRE	RECHARGEABLE BATTERY LUMINAIRE
Viewing distance		38 m
Degree of protection		IP54
Impact resistance		IK10
Class		II
Enclosure material		Sheet steel
Enclosure colour/surface		RAL 9016 (white)
Terminal block		3 x 2.5 ² for through wiring
Light source		LED
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	24.1 VA/14.2 W	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery		2 x 3.6 V/2.5 Ah (NiCd)

VERSIONS

1 h with auto-check with BUS check		• •
3 h with auto-check with BUS check		
8 h with auto-check with BUS check		
without monitoring module	•	
with monitoring module	•	
with DALI monitoring		
Cinema version		
Luminous flux in normal mode 10 %		

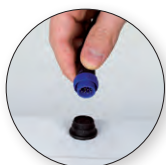
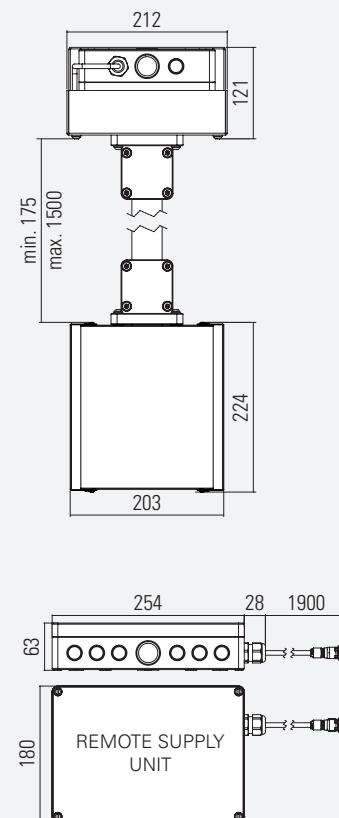
SPECIAL FEATURE

- High degree of protection (IP54)
- The luminaire head can be dismantled as a closed unit
- Impact resistant enclosure with additional window for downward light emission
- Voltage-free fault indication contact (rechargeable battery luminaire)
- Pictogram set included

OPTIONS /ACCESSORIES

- Other RAL colours on request

BR2D CEILING MOUNTED



Supply unit

As rechargeable battery luminaire with optional voltage-free signalling contact

Variable length

Can be shortened on site and adapted to the local circumstances

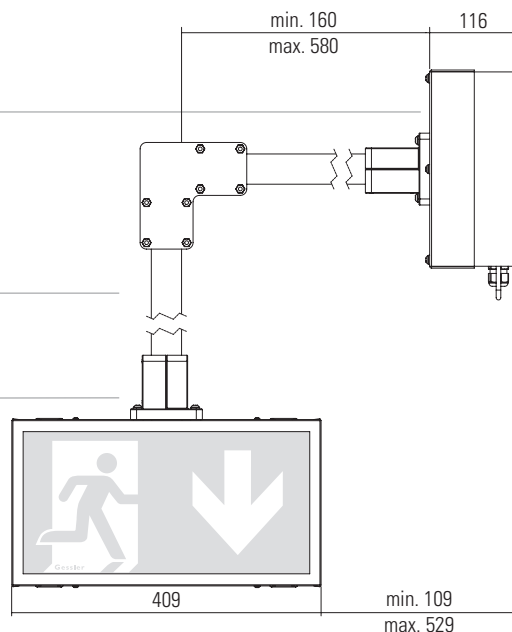
Coupling

The LED cube head can be uncoupled, if necessary, using a special key

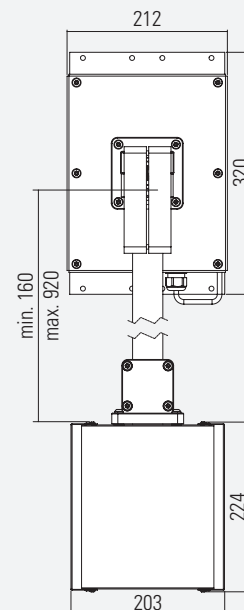
Vandalproof cube head

made of impact resistant polycarbonate

WALL BRACKET MOUNTING



BR2A WALL BRACKET MOUNTING



EXIT SIGN CUBE B35

35 m
IP54 | IK08



EXIT SIGN CUBE B35

The B35 has the ability to take blows. The cube head of the exit sign luminaire is impact resistant, vandalism-proof and, thanks to the high degree of protection, it is suitable for use in public areas.



EXIT SIGN CUBE B35

SYSTEM LUMINAIRE		RECHARGEABLE BATTERY LUMINAIRE
Viewing distance	35 m	
Degree of protection	IP54	
Impact resistance	IK08	
Class	II	
Enclosure material	Polycarbonate / sheet steel	
Enclosure colour/surface	RAL 9016 (white)	
Terminal block	3 x 2.5 ² for through wiring	
Light source	LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	10.0 VA/6.0 W	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery	2x 3.6 V/2.5 Ah (NiCd)	

VERSIONS

1 h with auto-check with BUS check	• •
3 h with auto-check with BUS check	
8 h with auto-check with BUS check	
without monitoring module	•
with monitoring module	•
with DALI monitoring	•
Cinema version	
Luminous flux in normal mode 10 %	

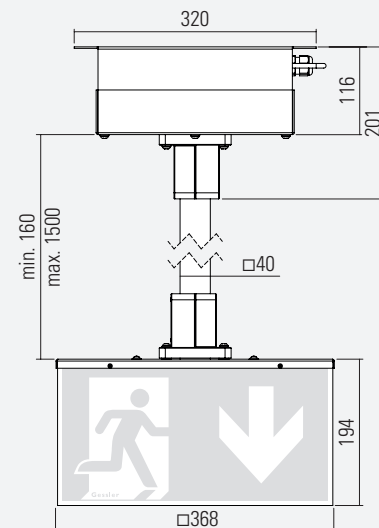
SPECIAL FEATURE

- High degree of protection (IP54)
- The luminaire head can be dismantled as a closed unit
- Impact resistant housing
- Voltage-free fault indication contact (rechargeable battery luminaire)
- Pictogram set included

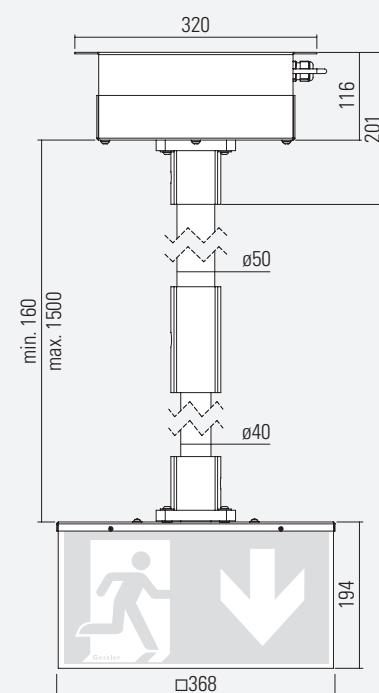
OPTIONS /ACCESSORIES

- Other RAL colours on request

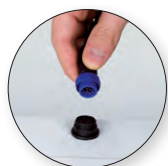
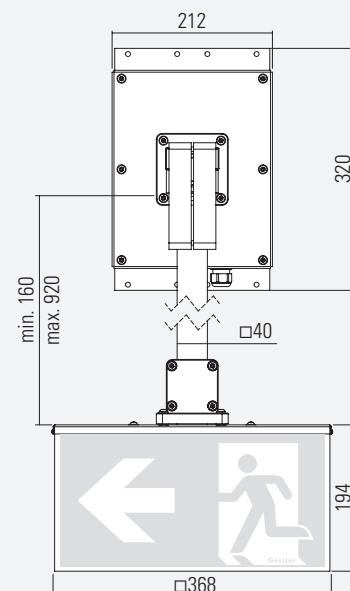
B35D CEILING MOUNTED



B35T TELESCOPIC INSTALLATION



B35W WALL BRACKET MOUNTING



Supply unit

As rechargeable battery luminaire with optional voltage-free signalling contact

Variable length

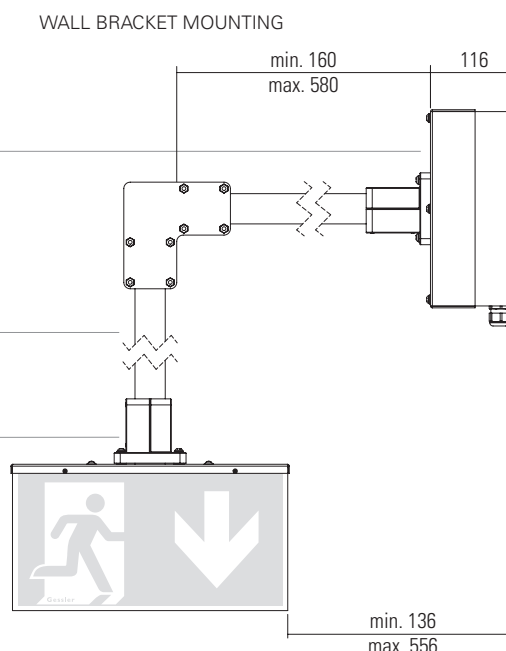
Can be shortened on site and adapted to the local circumstances

Coupling

The LED cube head can be uncoupled, if necessary, using a special key

Vandalproof cube head

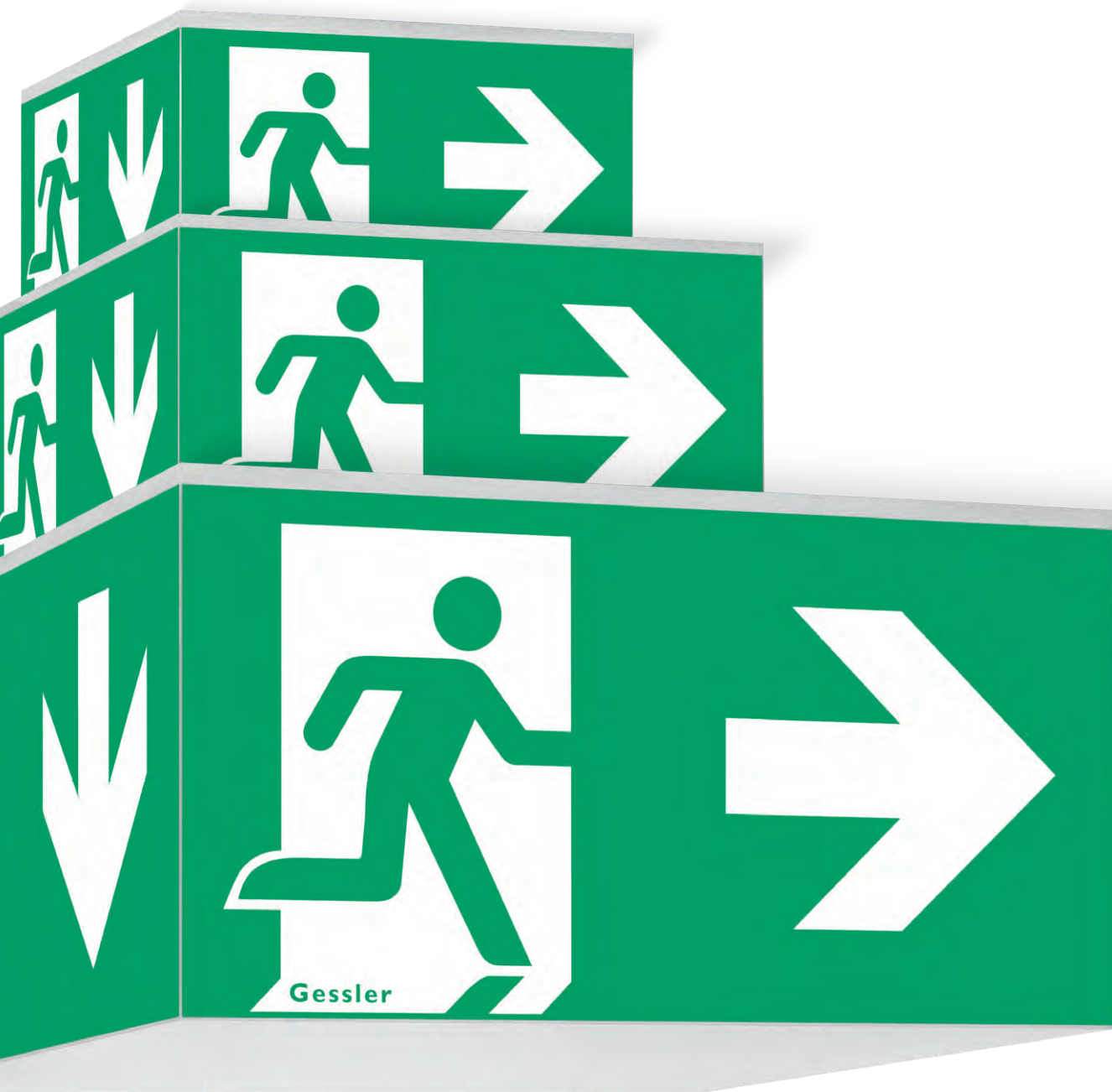
made of impact resistant polycarbonate



EXIT SIGN CUBE | | | | |-------------|-------------|------| | 25 m | 35 m | 60 m | | IP40 IP54 | IP40 IP54 | IP40 |

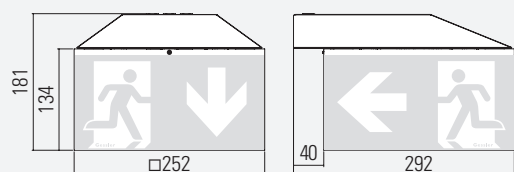
EXIT SIGN CUBE W25 | W35 | W60

If several routes lead to an emergency exit, an exit sign cube is the right choice. The pictograms of the frameless acrylic glass hood are applied using the screen printing method.

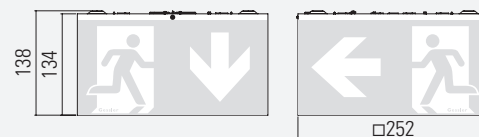


EXIT SIGN CUBE W25		SYSTEM LUMINAIRE	RECHARGEABLE BATTERY LUMINAIRE
Viewing distance		25 m	
Degree of protection		IP40 IP54	
Class		I	
Enclosure material		Acrylic glass	
Enclosure colour/surface		opal	
Terminal block		3 x 2.5 ² for through wiring	
Light source		LED	
Ambient temperature	-20° C to +40° C		0° C to +40° C
Connected load (AC/DC)	10.0 VA/6 W		
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC		230V ± 10 %, 50/60 Hz
Rechargeable battery			3.6 V/2.5 Ah (NiCd)
VERSIONS			
1 h with auto-check with BUS check			• •
3 h with auto-check with BUS check			• •
8 h with auto-check with BUS check			• •
without monitoring module	•		
with monitoring module	•		
with DALI monitoring	•		
Cinema version			
Luminous flux in normal mode 10 %			
SPECIAL FEATURE			
- Pictograms are attached by the screen printing method (no adhesive film)			
- All-round green printing			
OPTIONS /ACCESSORIES			
- Degree of protection IP54 (except pendant). Deviating dimensions: Increase of approx. 4 mm in the width and 7 mm in the height			

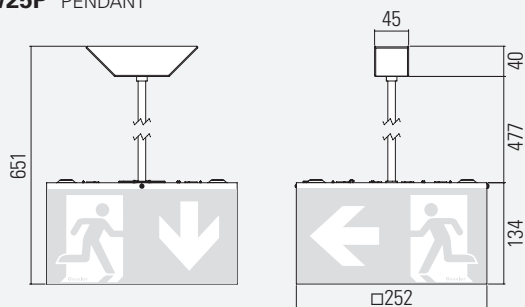
W25W WALL MOUNTED



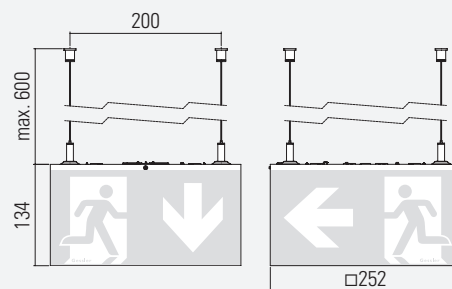
W25D CEILING MOUNTED



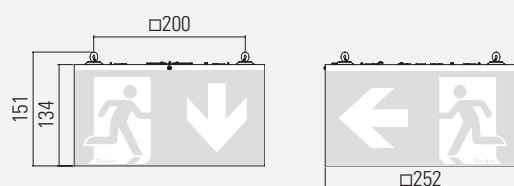
W25P PENDANT



W25S SUSPENDED



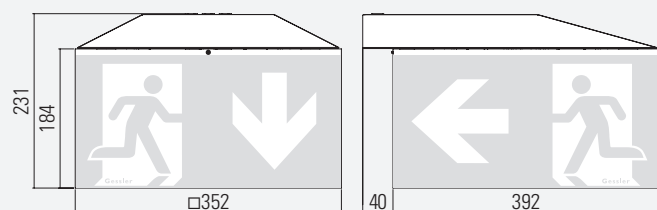
W25Ö EYE INSTALLATION



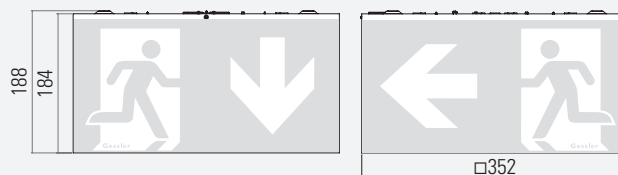
W25

EXIT SIGN CUBE W35	SYSTEM LUMINAIRE	RECHARGEABLE BATTERY LUMINAIRE
Viewing distance	35 m	
Degree of protection	IP40 IP54	
Class	I	
Enclosure material	Acrylic glass	
Enclosure colour/surface	opal	
Terminal block	3 x 2.5 ² for through wiring	
Light source	LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	10.0 VA/6 W	–
Supply voltage	230V ± 10 %, 50/60 Hz/ 176-275 V DC	230 V AC
Rechargeable battery	–	3.6 V/2.5 Ah (NiCd)
VERSION		
1 h with auto-check BUS check		• •
3 h with auto check BUS check		• •
8 h with auto check BUS check		• •
without monitoring	•	
with monitoring	•	
DALI monitoring	•	
Cinema version		
SPECIAL FEATURE		
- Pictograms are attached by the screen printing method (no adhesive film)		
- All-round green printing		
OPTIONS /ACCESSORIES		
- Degree of protection: IP54 (except pendant) – Deviating dimensions: Increase of approx. 4 mm in the width and 7 mm in the height		

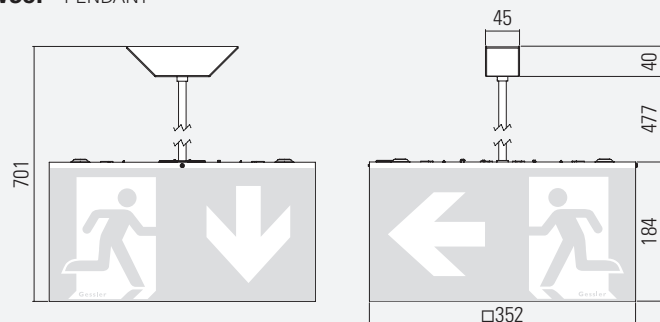
W35W WALL MOUNTED



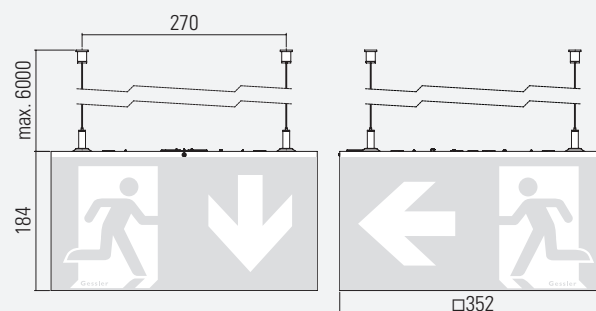
W35D CEILING MOUNTED



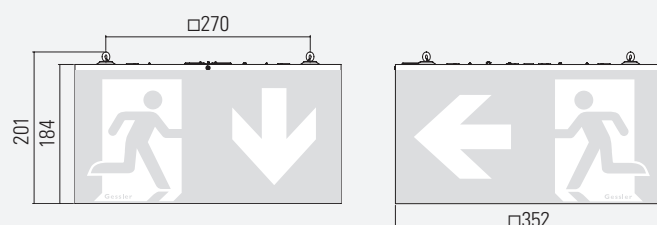
W35P PENDANT



W35S SUSPENDED



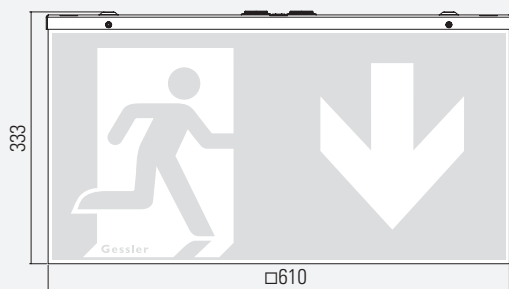
W35Ö EYE INSTALLATION



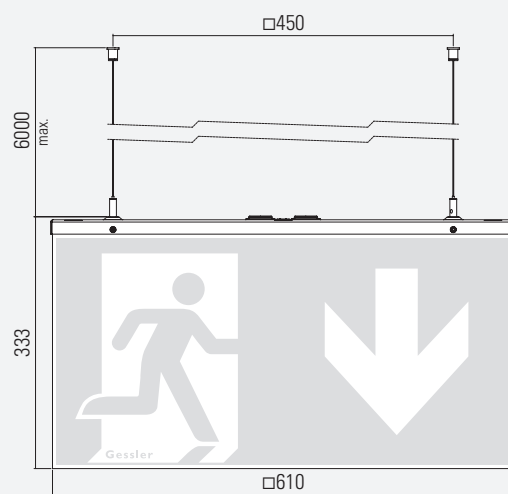
W35

EXIT SIGN CUBE W60	SYSTEM LUMINAIRE
Viewing distance	60 m
Degree of protection	IP40
Class	I
Enclosure material	Acrylic glass
Enclosure colour/surface	opal
Terminal block	3 x 2.5 [□] for through wiring
Light source	LED
Ambient temperature	-20° C to +40° C
Connected load (AC/DC)	17.2 VA/14.7 W
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC
Rechargeable battery	
VERSION	
1 h with auto-check BUS check	
3 h with auto check BUS check	
8 h with auto check BUS check	
without monitoring	•
with monitoring	•
DALI monitoring	•
Cinema version	
SPECIAL FEATURE	
- Pictograms are attached by the screen printing method (no adhesive film)	
- All-round green printing	

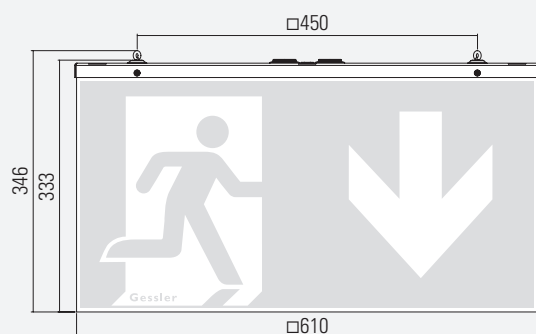
W60D CEILING MOUNTED



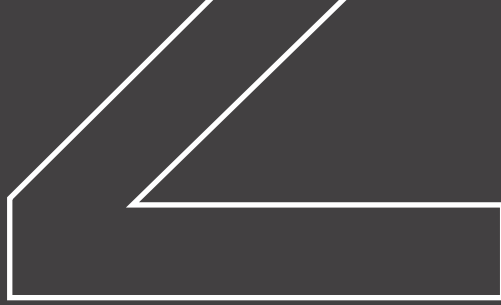
W60S SUSPENDED

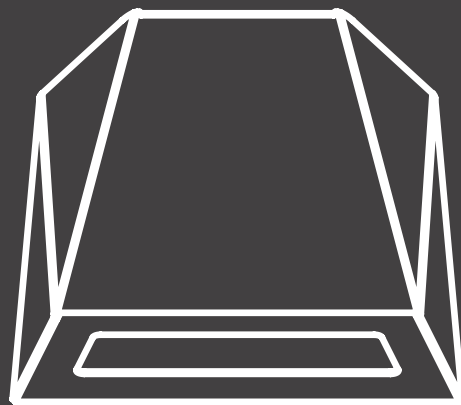


W60Ö EYE INSTALLATION



W60

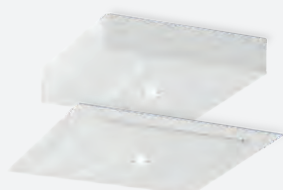




EMERGENCY
LUMINAIRES

PRODUCT OVERVIEW

LENS LUMINAIRES



PRIMUS PG5
LED | IP67
System luminaire
p. 100



LED-Spot SG5
LED | IP41
System luminaire
p. 102



LED Spot LG5
LED | IP40 | IP20
System luminaire
p. 104



LED Spot LG6
LED | IP40 | IP20
System luminaire
p. 106

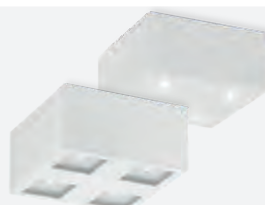


LED Spot LF6
LED | IP20
System luminaire
p. 108

POWER LEDS



PRIMUS PS4
LED | IP65
System | Rechargeable
battery
p. 120



LED Spot LS4Q | LS4B
LED | IP40 | IP43
System | Rechargeable
battery
p. 122



LED Spot LS4R | LS4E
LED | IP40 | IP20
System | Rechargeable
battery
p. 123

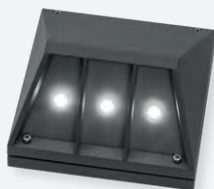


LED Spot LS3
LED | IP20
System luminaire
p. 128

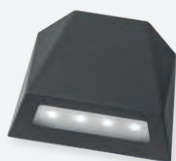


LED Spot LB3
LED | IP20
System luminaire
p. 130

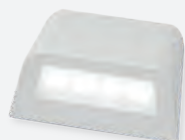
LED MASTER



LED Master LM1
LED | IP65
System | Rechargeable
battery
p. 132



LED Master LM4 | PM4
LED | IP41 | IP65
System | Rechargeable
battery
p. 134

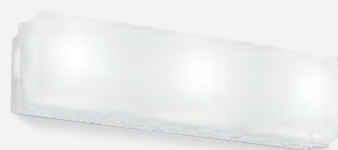


LED Master LM5 | PM5
LED | IP41 | IP65
System | Rechargeable
battery
p. 136

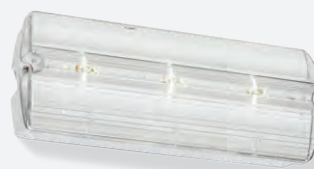
FUNCTIONAL LUMINAIRES



LED Spot LS1
LED | IP40 | IP20
System | Rechargeable
battery
p. 149



LUMINA 2000/1
LED | IP44
System | Rechargeable
battery
p. 152



LUMINA 2000/16
LED | IP54
System | Rechargeable
battery
p. 154

STARLIGHT SERIES



STARLIGHT A20
LED | IP20
System | Rechargeable
battery
p. 140



STARLIGHT S01 | S02
LED | IP40
System | Rechargeable
battery
p. 142 | p. 144



STARLIGHT S04
LED | IP66
System luminaire
p. 146



LED Master LM3
LED | IP43
System luminaire
p. 156



SUB-LED SL1
LED | IP43
System luminaire
p. 158

QUICKFINDER

IP RATINGS

	IP20	IP40	IP41	IP43	IP44	IP54	IP65	IP66	IP67
PRIMUS PG5									●
LED-Spot SG5			●						
LED-Spot LG5	●	●							
LED-Spot LG6	●	●							
LED-Spot LF6	●								
PRIMUS PS4							●		
LED-Spot LS4	●	●		●					
LED-Spot LS3	●								
LED-Spot LB3	●								
LED-Master LM1							●		
LED-Master LM4			●						
LED-Master PM4							●		
LED-Master LM5			●						
LED-Master PM5							●		
STARLIGHT A20	●								
STARLIGHT S01		●							
STARLIGHT S02		●							
STARLIGHT S04								●	
LED-Spot LS1	●	●							
LUMINA 2000/1					●				
LUMINA 2000/16						●			
LED-MASTER LM3				●					
SUB-LED SL1				●					

QUICKFINDER

TYPES OF INSTALLATION

	WALL	RECESSED WALL INSTALLATION	CEILING	RECESSED CEILING INSTALLATION	PENDANT	EYELET	WALL BRACKET	UNDER STEP TREAD	UNDER CHAIR
PRIMUS PG5			●	●			●		
LED-Spot SG5			●				●		
LED Spot LG5			●	●	●				
LED Spot LG6			●	●	●				
LED Spot LF6				●					
PRIMUS PS4			●	●			●		
LED Spot LS4			●	●					
LED Spot LS3				●					
LED Spot LB3			●						
LED Master LM1	●								
LED Master LM4	●								
LED Master PM4	●								
LED Master LM5	●								
LED Master PM5	●								
STARLIGHT A20	●		●						
STARLIGHT S01	●		●						
STARLIGHT S02	●		●						
STARLIGHT S04	●		●						
LED Spot LS1			●	●					
LUMINA 2000/1	●		●		●	●	●		
LUMINA 2000/16	●		●						
LEDMASTER LM3	●	●	●					●	●
SUB-LED SL1		●							



LENS

LUMINAIRES



MODULAR STRUCTURE

At the beginning it was only a vision. After many years of development work it has now become reality. We present: Lens luminaires in a modular structure.

The problem

We weren't prepared to be satisfied with the restriction that each new emergency luminaire developed has only ONE light distribution curve and ONE ideal installation height. The large number of different luminaires is based solely on these unalterable properties. Why can't any luminaire (individually assembled) fulfil the required properties?

Our standard of real innovation does not entail continuing along well-known paths. Innovation pursues completely new ways.

The solution

The godfather of our approach to the solution was the automotive industry. Modular systems compatible across series have been developed by this industry for many years.

We picked up this idea and took it further.

Our new, modular luminaire series consists of a highly efficient lighting module, a previously unknown choice of lenses and a large number of new luminaire designs:

Light Engine

The heart of our modular lens series is the newly developed Light Engine. New generation LEDs are turned into an efficient, powerful and durable unit by means of state-of-the-art heat management.

Lenses

Without appropriate lenses, the light from the LED cannot be optimally distributed or directed. Part of the new module variety are therefore 7 different lenses. There are 3 symmetrical, 3 asymmetrical and one 5 lx lens available, which ensure optimal illumination. Luminaire spacing of up to 26 m and mounting heights of up to 30 m are possible with these lenses.

Design variety

All luminaire housings in this series have been designed to be compatible with the Light Engine and the desired lens. A combination of 8 luminaire housings of different mounting types, protection types and designs together with a variety of 7 high performance lenses result in 56 module variants.

Each luminaire design can be equipped with each lens, to fulfil the precise properties and requirements you want.

That is innovation "Made in Rodgau".



PRIMUS PG5

IP67
LED



PG5D | IP67 | SYSTEM LUMINAIRE



PG5E | IP67 | SYSTEM LUMINAIRE

Design meets function. The Primus PG5 is a powerful LED lens luminaire with increased degree of protection (IP67). The luminaire enclosure can be opened without tools and therefore does not need any screws that disrupt the clear design. Equipped with the lens of your choice, PRIMUS PG5 is suitable for lighting open areas and escape routes in accordance with EN 1838, in all areas and at all installation heights.

PRIMUS PG5**SYSTEM LUMINAIRE**

Degree of protection	IP67
Class	II
Enclosure material	Polycarbonate
Enclosure colour/surface	white
Terminal block	3 x 2.5 [□] for through wiring
Light source	LED
Ambient temperature	-20° C to +40° C
Connected load (AC/DC)	8.5 VA/5.2 W
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC

VERSIONS

1 h with auto-check | with BUS check

3 h with auto-check | with BUS check

8 h with auto-check | with BUS check

without monitoring module

with monitoring module

with DALI monitoring

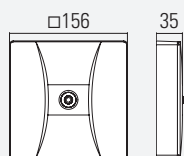
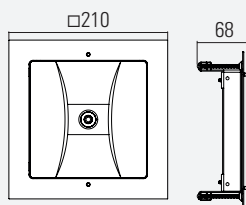
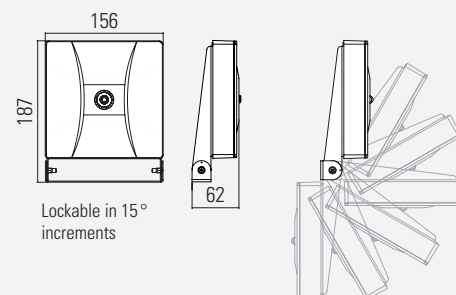
•
•**SPECIAL FEATURE**

- Very high degree of protection (IP67)

OPTIONS /ACCESSORIES

- Ceiling installation frame

- Wall bracket arm (lockable in 15° increments)

PG5D CEILING MOUNTED**PG5E** RECESSED CEILING INSTALLATIONCeiling cutout: 190 x 190 mm
Maximum ceiling thickness: 42 mm**PG5A** WALL BRACKET MOUNTING

LED-Spot **SG5** IP41 LED



Square, practical and discreet. Our LED Spot SG5 is a high-performance lens luminaire made of UV-resistant and colour-fast high-tech plastic. The SG5 LED spotlight can be opened without tools and therefore does not require any screws that would disturb the clear design. Equipped with the lens of your choice, the LED Spot SG5 is suitable for lighting open areas and escape routes in accordance with EN 1838, in all areas and at all installation heights.

PRIMUS SG5
SYSTEM LUMINAIRE

Degree of protection	IP41
Class	II
Enclosure material	Polycarbonate
Enclosure colour/surface	white
Terminal block	3 x 2.5 [□] for through wiring
Light source	LED
Ambient temperature	-20° C to +40° C
Connected load (AC/DC)	8.5 VA/5.2 W
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC

VERSIONS

1 h with auto-check | with BUS check

3 h with auto-check | with BUS check

8 h with auto-check | with BUS check

without monitoring module

•

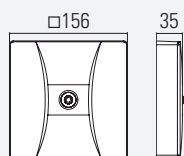
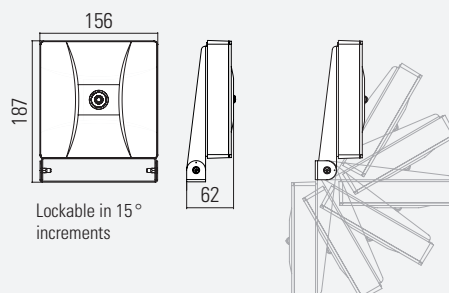
with monitoring module

•

with DALI monitoring

OPTIONS /ACCESSORIES

- Wall bracket arm (lockable in 15° increments)

SG5D CEILING MOUNTED

SG5A RECESSED CEILING INSTALLATION


LED Spot **LG5** IP20 | IP40 LED



LG5D | IP40 | SYSTEM LUMINAIRE



LG5E | IP20 | SYSTEM LUMINAIRE

Square, practical, powerful. The efficient LED Spot LG5 is a modern lens luminaire for lighting open areas and escape routes in accordance with EN 1838. With the right lens, the LED Spot LG5 is the right choice for any installation height and type of lighting.

LED Spot **LG5**

SYSTEM LUMINAIRE

Degree of protection	IP20 recessed IP40 surface mounted
Class	I
Enclosure material	Sheet steel
Enclosure colour/surface	RAL 9016 white
Terminal block	3 x 2.5 ² for through wiring
Light source	LED
Ambient temperature	-20° C to +40° C
Connected load (AC/DC)	8.5 VA/5.2 W
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC

VERSIONS

1 h with auto-check | with BUS check

3 h with auto-check | with BUS check

8 h with auto-check | with BUS check

without monitoring module

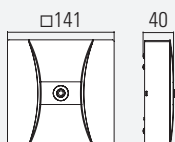
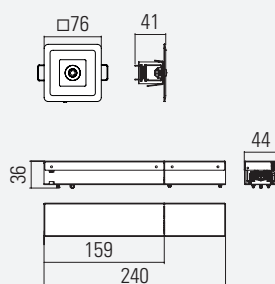
with monitoring module

with DALI monitoring

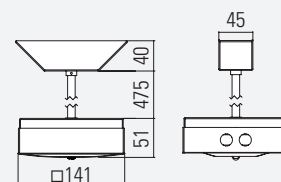


OPTIONS /ACCESSORIES

- Enclosure colours in RAL 7024 (graphite grey) | Other colours on request

LG5D CEILING MOUNTED**LG5E** RECESSED CEILING INSTALLATION

Ceiling cutout: Ø 60 mm
 Maximum ceiling thickness: 42 mm
 Minimum clear ceiling height: 120 mm

LG5P PENDANT

LED Spot **LG6** IP20 | IP40 LED



LG6D | IP40 | SYSTEM LUMINAIRE



LG6E | IP20 | SYSTEM LUMINAIRE

The LED Spot LG6 is the round counterpart to the square LED Spot LG5. With the right lens, the LED Spot LG6 is the right choice for any installation height and type of lighting. The modern lens luminaire is designed for lighting open areas and escape routes in accordance with EN 1838.

LED Spot **LG6**

SYSTEM LUMINAIRE

Degree of protection	IP20 recessed IP40 surface mounted
Class	I
Enclosure material	Sheet steel
Enclosure colour/surface	RAL 9016 white
Terminal block	3 x 2.5 ² for through wiring
Light source	LED
Ambient temperature	-20° C to +40° C
Connected load (AC/DC)	8.5 VA/5.2 W
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC

VERSIONS

1 h with auto-check | with BUS check

3 h with auto-check | with BUS check

8 h with auto-check | with BUS check

without monitoring module

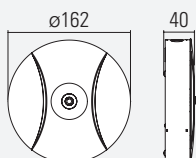
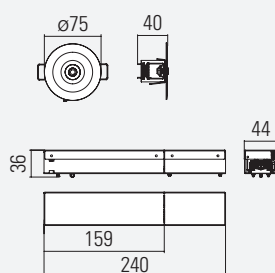
with monitoring module

with DALI monitoring

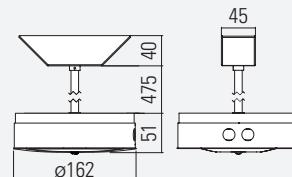


OPTIONS /ACCESSORIES

- Enclosure colours RAL 7024 (graphite grey) | Other colours on request

LG6D CEILING MOUNTED**LG6E** RECESSED CEILING INSTALLATION

Ceiling cutout: Ø 60 mm
 Maximum ceiling thickness: 40 mm
 Minimum clear ceiling height: 120 mm

LG6P PENDANT

LED Spot **LF6** IP20 LED



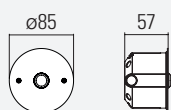
Development cooperation



Emergency lights in fire resistant ceilings are always a challenge. The second generation of the LFseries, further developed with Kaiser, is available with lens technology. This means that far greater luminaire spacings can be achieved. The integrated intumescent paint of the recessed luminaire foams in case of fire and closes the opening in the ceiling. The LF6 is suitable for installation in F-fire protection ceilings and removes the need for an additional fire protection enclosure or rework with fire resistant silicone.

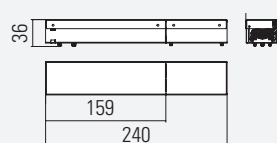
LED Spot LF6	SYSTEM LUMINAIRE
Degree of protection	IP20
Class	I
Enclosure material	LF6 sheet steel fascia
Enclosure colour/surface	RAL 9016 (white)
Terminal block	3 x 2.5 [□] for through wiring
Light source	LED
Ambient temperature	-20° C to +40° C
Connected load (AC/DC)	8.5 VA / 5,2 W
Supply voltage	230V ± 10 %, 50/60 Hz / 176-275 V DC
VERSIONS	
1 h with auto-check with BUS check	
3 h with auto-check with BUS check	
8 h with auto-check with BUS check	
without monitoring module	•
with monitoring module	•
with DALI monitoring	
SPECIAL FEATURE	
- Suitable for installation in F-fire resistant ceilings	
OPTIONS / ACCESSORIES	
- Brushed stainless steel fascia	
- Fascia in RAL 7024 (graphite grey) Other colours on request	

LF6 RECESSED CEILING INSTALLATION



Ceiling cutout: Ø 74 mm
Maximum ceiling thickness: 40 mm
Minimum clear ceiling height: 120 mm

JUNCTION BOX



LENS VERSIONS

WHICH LENS WOULD YOU LIKE?

Thanks to the modular design of our emergency lighting insert, all the high-performance lenses mentioned here are compatible with all module carriers of the corresponding manufacturers.

TECHNICAL DATA	
Light source	LED
Connected load (AC/DC)	8.5 VA / 5,2 W
VERSION	
without monitoring	•
with monitoring	•
DALI monitoring	



SYMMETRICAL LENSES FOR OPEN AREAS



S1 LENS
Installation height
up to 12 m



S2 LENS
Installation height
up to 18 m



S3 LENS
Installation height
up to 30 m

ASYMMETRICAL LENSES FOR ESCAPE ROUTES



A1 LENS
Installation height
up to 11 m



A2 LENS
Installation height
up to 16 m



A3 LENS
Installation height up
to 30 m

5 LX LENSE FOR FOCUSED LIGHT



F1 LENS
Installation height up
to 3,5 m

SYMMETRICAL LENSES

LIGHTING DATA (EN 1838)

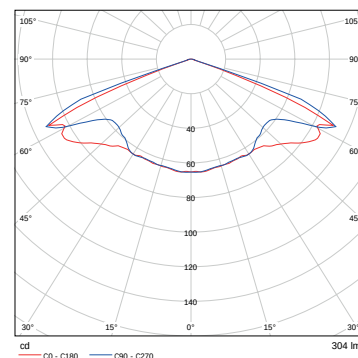
VARIABLE HEIGHTS

Three symmetrical lenses are available. These are optimised for different mounting heights (2 to 30 m).

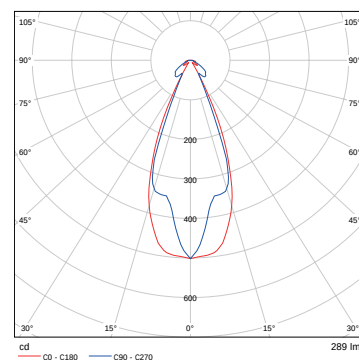
SYMMETRICAL LENSES FOR OPEN AREAS



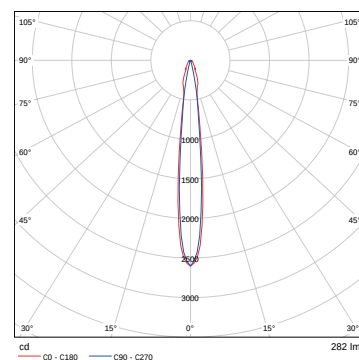
S1 LENS
Installation
height up to
12 m



S2 LENS
Installation
height up to
18 m

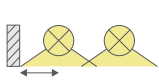
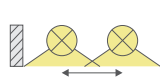
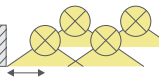
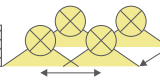
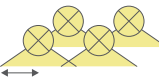
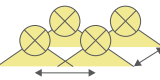


S3 LENS
Installation
height up to
30 m



SYMMETRICAL LENSES

LIGHTING DATA (EN 1838)

Installation height [m]	1 lx Lighting of escape routes						1 lx Lighting of sales areas (self-service stores)						0.5 lx Lighting of open areas > 60m² (anti-panic lighting)					
																		
	S1 lens	S2 lens	S3 lens	S1 lens	S2 lens	S3 lens	S1 lens	S2 lens	S3 lens	S1 lens	S2 lens	S3 lens	S1 lens	S2 lens	S3 lens	S1 lens	S2 lens	S3 lens
2.00	4.50			10.00			3.25			7.75			4.00			8.25		
2.50	4.75			13.50			4.00			10.75			5.25			11.75		
3.00	4.25			13.50			4.00			10.75			5.25			11.75		
4.00	4.00	2.25		12.75	5.00		3.75	1.75		12.25	5.00		6.00	2.25		14.75	7.00	
5.00	3.75	2.75		11.50	6.00		2.50	2.00		11.25	5.50		5.75	2.50		16.50	6.75	
6.00	3.25	3.00		11.00	6.75		2.50	2.75		11.50	6.00		5.00	2.75		16.50	7.25	
7.00	2.25	3.25		11.25	7.75		2.50	3.00		11.50	6.75		4.75	3.00		14.50	8.00	
8.00	1.50	3.50	2.00	6.50	8.25	4.75	2.75	3.25	1.25	9.00	7.50	5.25	3.75	3.50	2.75	15.25	8.50	5.50
9.00		4.00	2.25		9.00	5.25	1.25	3.50	1.75	10.25	8.25	5.50	2.50	4.00	1.50	17.50	9.00	6.75
10.00		4.00	2.25		9.50	5.50	1.25	3.75	2.25	8.00	8.75	5.75	1.75	4.25	2.00	17.75	9.75	7.00
11.00		4.25	2.50		10.00	5.75	1.00	3.75	1.50	6.75	9.25	6.25	1.75	4.50	2.75	17.50	10.50	7.25
12.00		4.50	2.75		10.50	6.25	1.00	4.00	1.75	5.50	9.50	6.25	1.50	4.75	3.25	17.00	11.25	7.50
13.00		4.75	2.75		11.00	6.50		4.00	1.75		10.00	6.50		4.50	2.75		12.00	8.00
14.00		4.75	2.75		11.50	6.75		3.75	1.75		10.25	6.50		5.00	3.00		12.50	8.25
15.00		4.50	3.00		12.00	7.00		3.75	1.75		10.50	6.75		5.25	3.00		13.00	8.50
16.00		4.00	3.00		12.50	7.50		3.50	2.00		10.75	6.50		5.25	3.00		13.25	8.75
17.00		2.25	3.25		12.75	7.75		3.00	2.00		11.00	7.00		5.50	3.00		13.75	8.75
18.00		1.75	3.25		11.75	8.00		2.00	2.00		11.00	7.00		4.75	3.00		14.00	9.00
19.00			3.25			8.25			2.25			7.25			3.00			9.25
20.00			3.25			8.50			2.25			7.50			3.00			9.50
21.00			3.25			8.75			2.25			7.50			3.00			9.50
22.00			3.25			8.75			3.25			7.50			3.25			9.00
23.00			3.25			9.00			2.50			8.00			3.25			9.50
24.00			3.25			9.25			2.50			8.00			3.25			10.00
25.00			3.25			9.25			2.50			8.25			3.25			10.00
26.00			3.25			9.50			2.75			8.25			3.50			10.25
27.00			3.25			9.50			2.75			8.50			3.75			10.25
28.00			3.25			9.50			2.50			8.75			3.75			10.50
29.00			3.25			9.50			2.50			8.75			3.50			10.75
30.00			3.25			9.50			2.75			9.00			3.75			10.75

This table of distances (in metres) is based on the following factors:
measurement plane 2 cm, maintenance factor MF = 80 %, reflectance: 0

Dated: April 2021

ASYMMETRICAL LENSES

LIGHTING DATA (EN 1838)

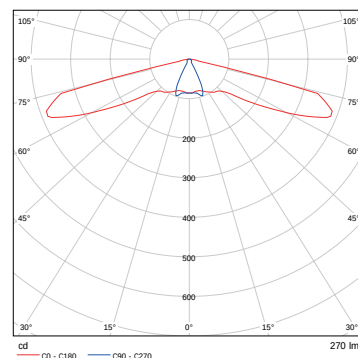
VARIABLE HEIGHTS

Three asymmetrical lenses are available. These are optimised for different mounting heights (2 to 30 m).

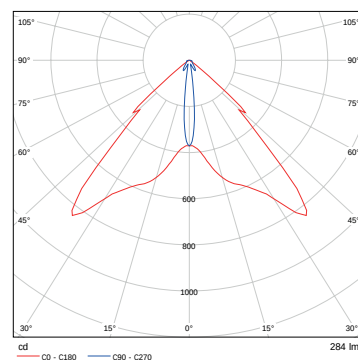
ASYMMETRICAL LENSES FOR ESCAPE ROUTES



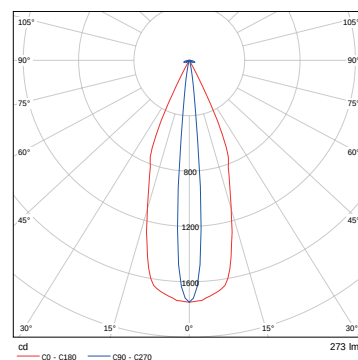
A1 LENS
Installation
height up to
11 m



A2 LENS
Installation
height up to
16 m

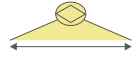


A3 LENS
Installation
height up to
30 m



ASYMMETRICAL LENSES

LIGHTING DATA (EN 1838)

1 lx Lighting of escape routes									
Installation height [m]									
	A1 lens	A2 lens	A3 lens	A1 lens	A2 lens	A3 lens	A1 lens	A2 lens	A3 lens
2.00	7.25			16.00			14.25		
2.50	8.00			19.00			17.00		
3.00	8.50			21.50			17.25		
4.00	9.50	4.75		24.50	10.50		18.75	10.00	
5.00	8.75	5.75		26.50	12.50		17.50	12.00	
6.00	5.25	6.75		27.50	14.50		10.50	14.00	
7.00	4.50	7.75		24.00	16.75		8.25	16.00	
8.00	4.00	8.75	4.00	16.50	18.75	8.75	2.00	17.75	8.25
9.00	2.75	9.00	4.50	14.50	20.75	9.75		18.00	9.25
10.00	1.00	9.50	5.00	8.50	22.25	10.50		19.50	10.00
11.00	1.00	10.25	5.50	3.75	23.75	11.50		20.50	11.00
12.00		11.00	5.75		25.25	12.50		22.00	10.75
13.00		11.50	6.25		25.75	13.25		23.25	12.75
14.00		12.25	6.75		27.00	14.25		24.50	13.50
15.00		12.75	7.00		28.50	15.25		25.75	14.25
16.00		13.25	7.50		29.75	16.00		26.75	15.00
17.00			7.75			17.00			15.50
18.00			8.00			17.75			16.00
19.00			8.25			18.50			16.50
20.00			8.50			19.25			17.00
21.00			8.50			20.00			17.00
22.00			8.50			20.75			17.00
23.00			8.25			21.50			16.75
24.00			8.25			21.50			16.50
25.00			8.00			22.00			16.25
26.00			8.00			22.25			16.00
27.00			8.00			22.75			16.00
28.00			7.75			23.00			15.75
29.00			7.75			23.25			15.50
30.00			7.50			23.50			15.00

This table of distances (in metres) is based on the following factors:
measurement plane 2 cm, maintenance factor MF = 80 %, reflectance: 0

Dated: April 2021

5 LX LENS

LIGHTING DATA (EN 1838)

The EN 1838 standard requires safety lighting near every fire-fighting and alarm system as well as first-aid equipment. We have developed the F1 lens for this purpose. The high-performance lens focuses the light according to the specifications of EN 1838 so that a vertical illuminance of 5 lx is achieved.

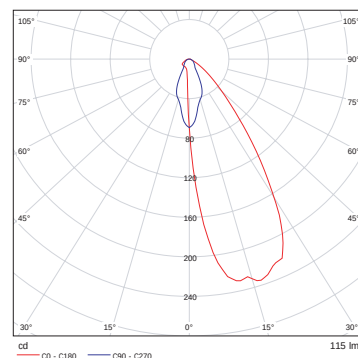
Normative illumination with 5 lx according to EN 1838 and ISO 23601 is required for:

- Fire-fighting equipment (fire extinguishers)
- Safety equipment (first aid boxes)
- Signalling equipment (manual fire detectors)
- Escape and rescue plans

5 LX LENS FOR FOCUSSED LIGHT

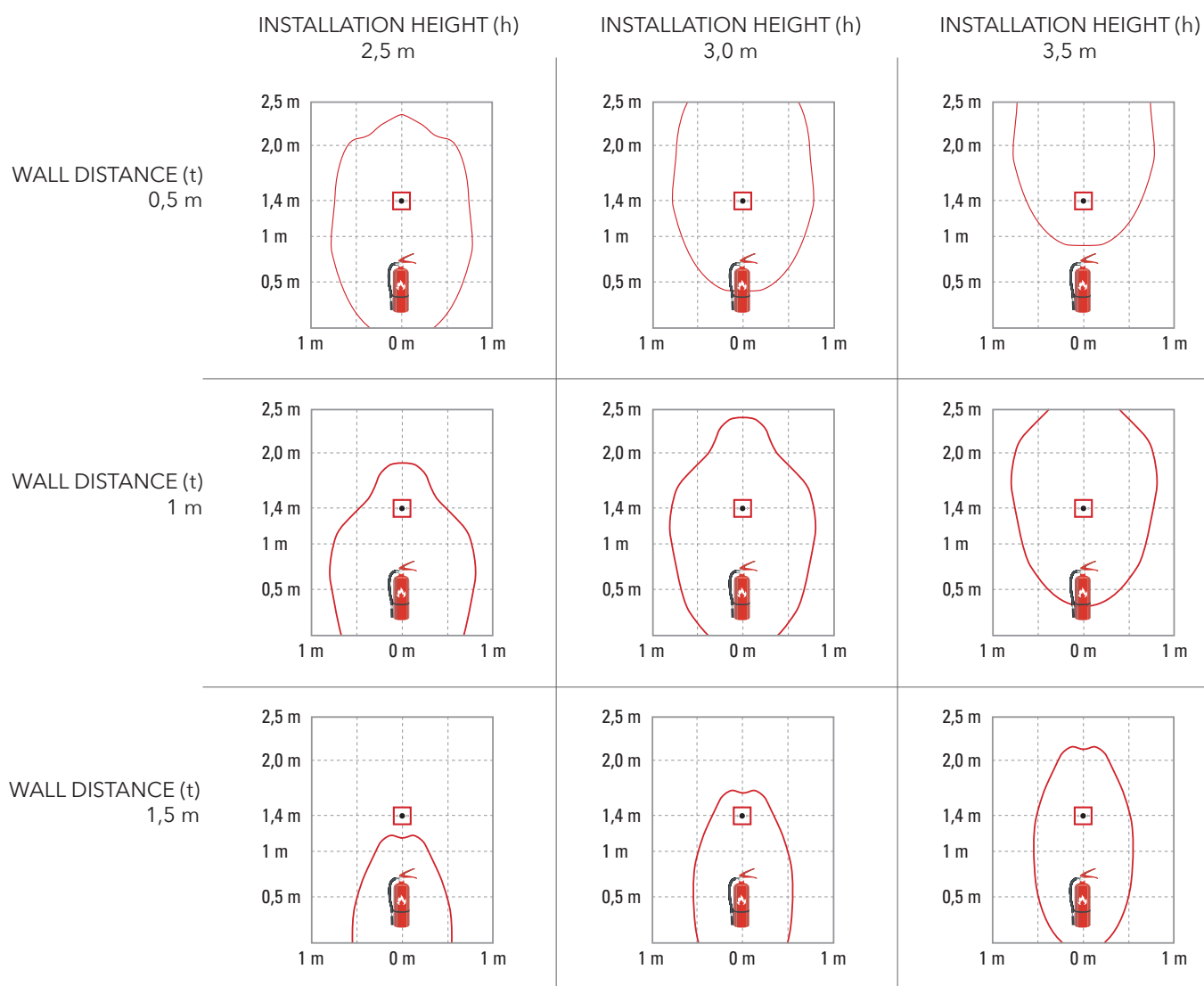


F1 LENS
Installation
height up to
3,5 m



The EN 54

Non-automatic fire detectors must be installed
at a height of 140 cm (+/- 20 cm) above the floor.





Power LED

4-SERIES



PRIMUS **PS4** IP65 LED



PS4D | IP65 | SYSTEM LUMINAIRE RECHARGEABLE BATTERY LUMINAIRE



PS4E | IP65 | SYSTEM LUMINAIRE RECHARGEABLE BATTERY LUMINAIRE

Our PS4 is a real all-rounder. The high degree of protection and the impact resistant enclosure designed to be resistant to ball throwing makes the PS4 the right choice for sports facilities, public areas, swimming pools and food production facilities (IFS standard and HACCP regulation).

Degree of protection	IP65	
Class	I	
Enclosure material	Stainless steel	
Enclosure colour/surface	brushed	
Terminal block	3 x 2.5 ² for through wiring	
Light source	4 x 1 W power LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	13.2 VA/6.7 W	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery		3.6 V/2.5 Ah (NiCd)

VERSIONS

1 h with auto-check with BUS check		•* •*
3 h with auto-check with BUS check		•* •*
8 h with auto-check with BUS check		•* •*
without monitoring module	•	
with monitoring module	•	
with DALI monitoring	•	

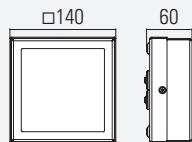
SPECIAL FEATURE

- High degree of protection (IP65)
- Version resistant to ball throwing - suitable for sports facilities
- Chlorine-resistant enclosure - suitable for swimming pools
- Fulfils the IFS standard and the HACCP regulation (food industry)

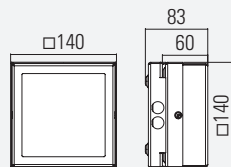
OPTIONS /ACCESSORIES

- Remote supply unit (rechargeable battery luminaire) for mounting in temperature controlled area. Connection cable max. 4 m (2.5 mm²) provided on site*.
- Concrete adapter for surface-mounted installation
- Wall bracket arm (lockable in 15° increments)
- Aluminium enclosure in RAL 9016 (white) and RAL 7024 (graphite grey) | Other colours on request

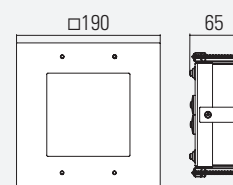
PS4D CEILING MOUNTED



CEILING INSTALLATION WITH CONCRETE ADAPTER

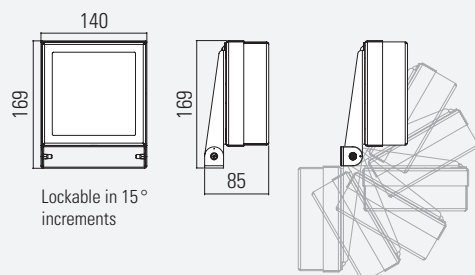


PS4E RECESSED CEILING INSTALLATION

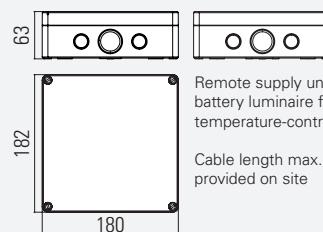


Ceiling cutout: 170 x 170 mm
Maximum ceiling thickness: 42 mm

PS4A WALL BRACKET MOUNTING



*REMOTE SUPPLY UNIT (OPTIONAL)



Remote supply unit for rechargeable battery luminaire for mounting in temperature-controlled indoor area

Cable length max. 4 m (2.5 mm²) provided on site

LED Spot **LS4** IP40 | IP43 | IP20 LED



LS4Q | IP40 | SYSTEM LUMINAIRE
RECHARGEABLE BATTERY LUMINAIRE



LS4B | IP43 | SYSTEM LUMINAIRE
RECHARGEABLE BATTERY LUMINAIRE



LS4R | IP40 | SYSTEM LUMINAIRE
RECHARGEABLE BATTERY LUMINAIRE



LS4E | IP20 | SYSTEM LUMINAIRE
RECHARGEABLE BATTERY LUMINAIRE

The unadorned LED emergency luminaire is available as a rechargeable battery and as a system luminaire. The LED Spot LS4 can be ordered for recessed ceiling installation or for surface mounting.

Degree of protection	Recessed installation IP40 Ceiling mounted IP20	
Class	I	
Enclosure material	Sheet steel	
Enclosure colour/surface	RAL 9016 (white)	
Terminal block	3 x 2.5 ² for through wiring	
Light source	4 x 1 W power LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	13.2 VA/6.7 W	6.2 VA
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery		3.6 V/2.5 Ah/3 Ah (NiCd)

VERSIONS

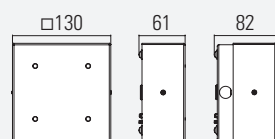
1 h with auto-check with BUS check		• •
3 h with auto-check with BUS check		• •
8 h with auto-check with BUS check		• •
without monitoring module	•	
with monitoring module	•	
with DALI monitoring only for recessed ceiling installation	•	

SPECIAL FEATURE

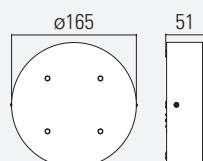
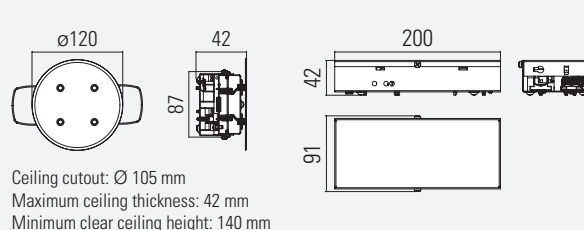
- LED Spot LS4Q + LS4B: Lateral cable entries can be exposed through height adjustment
- LED Spot LS4Q + LS4B: Wall bracket arm (lockable in 15° increments)
- LED Spot LS4B: Enclosure resistant to ball throwing - suitable for sports facilities

OPTIONS /ACCESSORIES

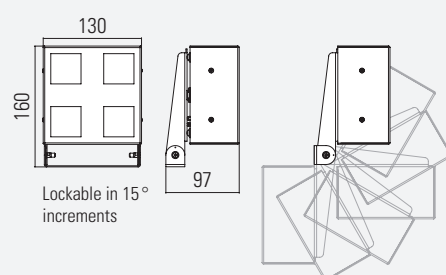
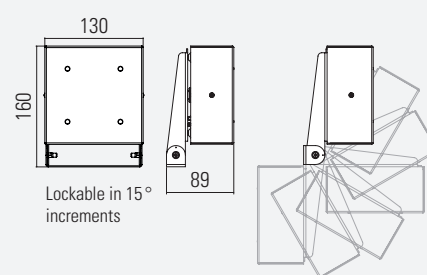
Enclosure colour in RAL 7024 (graphite grey) | Other colours on request

LS4Q CEILING MOUNTED

Lateral cable entries can be exposed through height adjustment.

LS4R CEILING MOUNTED**LS4E** RECESSED CEILING INSTALLATION**LS4B** CEILING MOUNTED

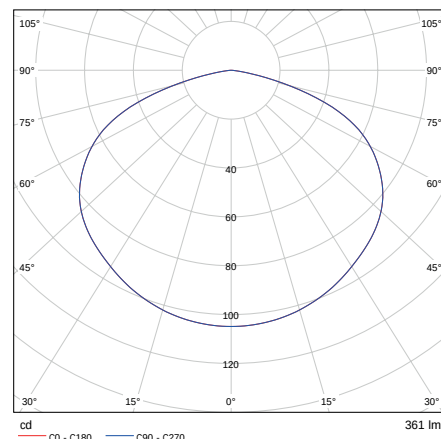
Version resistant to ball throwing in IP43. Suitable for use in sports facilities. Lateral cable entries can be exposed through height adjustment.

LS4BA WALL BRACKET**LS4QA** WALL BRACKET

POWER LED 4-SERIES

LIGHTING of ESCAPE ROUTES – EN 1838

1 lx	Installation height [m]	System	 1 h + 3 h	8 h	System	 1 h + 3 h	8 h
	2.00	4.00	3.20	2.50	10.00	8.50	6.50
	2.50	4.25	3.45	2.50	11.00	9.20	7.00
	3.00	4.50	3.60	2.50	11.75	9.70	7.25
	3.50	4.75	3.75	2.25	12.50	10.10	7.25
	4.00	4.75	3.70	1.80	13.00	10.45	7.00
	5.00	4.75	3.50	0.75	13.50	10.75	5.00
	6.00	4.50	3.00		13.75	10.50	
	7.00	4.00	2.25		13.75	10.00	



Lighting of OPEN AREAS > 60m² (ANTI-PANIC LIGHTING) – EN 1838

0.5 lx	Installation height [m]	System	 1 h + 3 h	8 h	System	 1 h + 3 h	8 h
	3.00	4.75	3.85	2.50	12.00	10.15	7.75
	4.00	5.00	4.10	2.50	13.50	11.20	8.75
	5.00	5.25	4.20	2.25	14.75	12.05	9.25
	6.00	5.50	4.20	1.75	15.75	12.80	9.50
	7.00	5.50	4.00		16.50	13.35	
	8.00	5.25	3.65		17.25	13.80	
	9.00	5.00	3.25		17.75	14.00	
	10.00	4.50	2.25		18.00	14.00	

LIGHTING of SALES AREAS (e.g. SELF-SERVICE STORES) – EN 1838

1 lx	Installation height [m]	System	 1 h + 3 h	8 h	System	 1 h + 3 h	8 h
	2.00	3.00	2.30	1.80	8.00	7.05	5.50
	3.00	3.25	2.60	1.75	10.00	8.10	6.25
	4.00	3.50	2.60	1.25	11.00	8.90	6.75
	5.00	3.50	3.00	1.50	11.75	9.60	4.50
	6.00	3.25	2.55	1.50	12.25	9.60	4.00
	7.00	3.00	1.75		12.75	10.00	
	8.00	2.50	1.50		13.00	8.50	
	9.00	2.00	2.50		12.25	5.00	

All figures in metres from the middle of the luminaire



Power LED

3-SERIES



LED Spot **LS3** IP20 LED



Small, unobtrusive LED emergency luminaire with a discreet look for flush installation in ceilings. Optionally available with brushed stainless steel fascia.

LED Spot LS3

SYSTEM LUMINAIRE

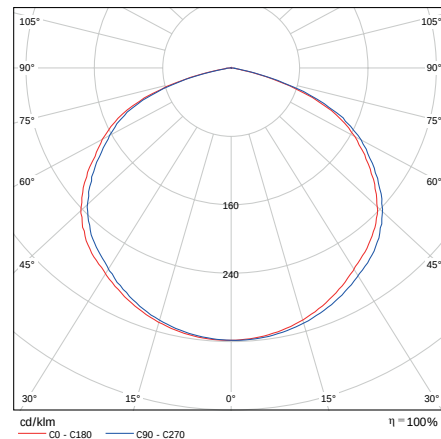
Degree of protection	IP20
Class	I
Enclosure material	LS3 sheet steel
Enclosure colour/surface	RAL 9016 (white)
Terminal block	3 x 2.5 ² for through wiring
Light source	3 x 1 W power LED
Ambient temperature	-20° C to +40° C
Connected load (AC/DC)	10.4 VA / 5.5 W
Supply voltage	230V ± 10 %, 50/60 Hz / 176-275 V DC

VERSIONS

1 h with auto-check with BUS check	
3 h with auto-check with BUS check	
8 h with auto-check with BUS check	
without monitoring module	•
with monitoring module	•
with DALI monitoring	

OPTIONS / ACCESSORIES

- Fascia in RAL 7024 (graphite grey) | Other colours on request
- Fascia made of brushed stainless steel



LIGHTING of ESCAPE ROUTES – EN 1838

Installation height [m]	System	System
2.00	2.85	7.50
2.50	3.10	8.05
3.00	3.10	8.50
3.50	3.05	8.80
4.00	2.90	8.95

LIGHTING of OPEN AREAS > 60m² (anti-panic lighting) – EN 1838

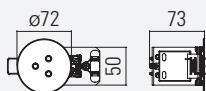
Installation height [m]	System	System
3.00	3.45	8.95
4.00	3.60	9.95
5.00	3.55	10.70
6.00	3.25	11.30
7.00	2.85	11.55
8.00	1.95	11.55

LIGHTING of SALES AREAS (e.g. self-service stores) – EN 1838

Installation height [m]	System	System
2.00	2.05	6.10
2.50	2.10	6.75
3.00	2.20	7.15
3.50	2.15	7.50
4.00	2.05	7.85

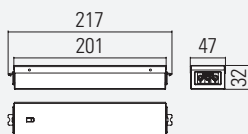
All figures in metres from the middle of the luminaire

LS3E RECESSED CEILING INSTALLATION



Ceiling cutout: Ø 60 mm
Maximum ceiling thickness: 42 mm
Minimum clear ceiling height: 120 mm

JUNCTION BOX



LED Spot **LB3** IP20 LED



LED emergency luminaire in round design with symmetrical lighting for flush ceiling installation in an existing device junctionbox with standard combination distance of 71 mm in accordance with DIN 49073-1 (deeper version). Suitable for lighting open areas and escape routes in accordance with EN 1838.

LED Spot LB3

SYSTEM LUMINAIRE

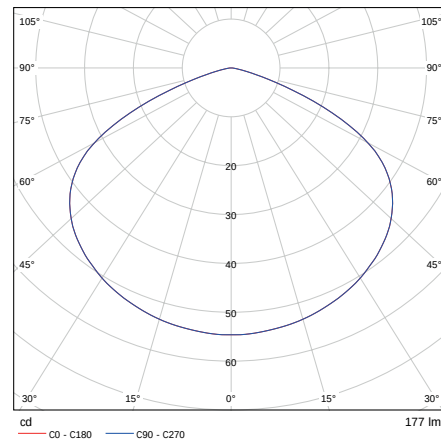
Degree of protection	IP20
Class	I
Enclosure material	LB3 sheet steel fascia
Enclosure colour/surface	RAL 9016 (white)
Terminal block	3 x 2.5 ² for through wiring
Light source	3 x 1 W power LED
Ambient temperature	-20° C to +40° C
Connected load (AC/DC)	9.9 VA / 5.0 W
Supply voltage	230V ± 10 %, 50/60 Hz / 176-275 V DC

VERSIONS

1 h with auto-check with BUS check	
3 h with auto-check with BUS check	
8 h with auto-check with BUS check	
without monitoring module	•
with monitoring module	•
with DALI monitoring	

OPTIONS / ACCESSORIES

- Fascia in RAL 7024 (graphite grey) | Other colours on request
- Fascia made of brushed stainless steel



LIGHTING of ESCAPE ROUTES – EN 1838

Installation height [m]	System	System
2.00	3.25	8.00
2.50	3.50	8.75
3.00	3.50	9.50
3.50	3.50	9.75
4.00	3.50	10.00
4.50	3.25	10.25
5.00	3.00	10.00

LIGHTING of OPEN AREAS > 60m² (anti-panic lighting) – EN 1838

Installation height [m]	System	System
3.00	4.00	9.50
4.00	4.00	11.25
5.00	3.75	12.50
6.00	4.00	12.75
7.00	3.00	14.00
8.00	2.50	14.25

LIGHTING of SALES AREAS (e.g. self-service stores) – EN 1838

Installation height [m]	System	System
2.00	2.25	6.50
2.50	2.25	7.50
3.00	2.25	8.25
3.50	2.25	8.75
4.00	2.00	9.25
4.50	2.00	9.50
5.00	2.00	9.75

All figures in metres from the middle of the luminaire

LB3E RECESSED CEILING INSTALLATION



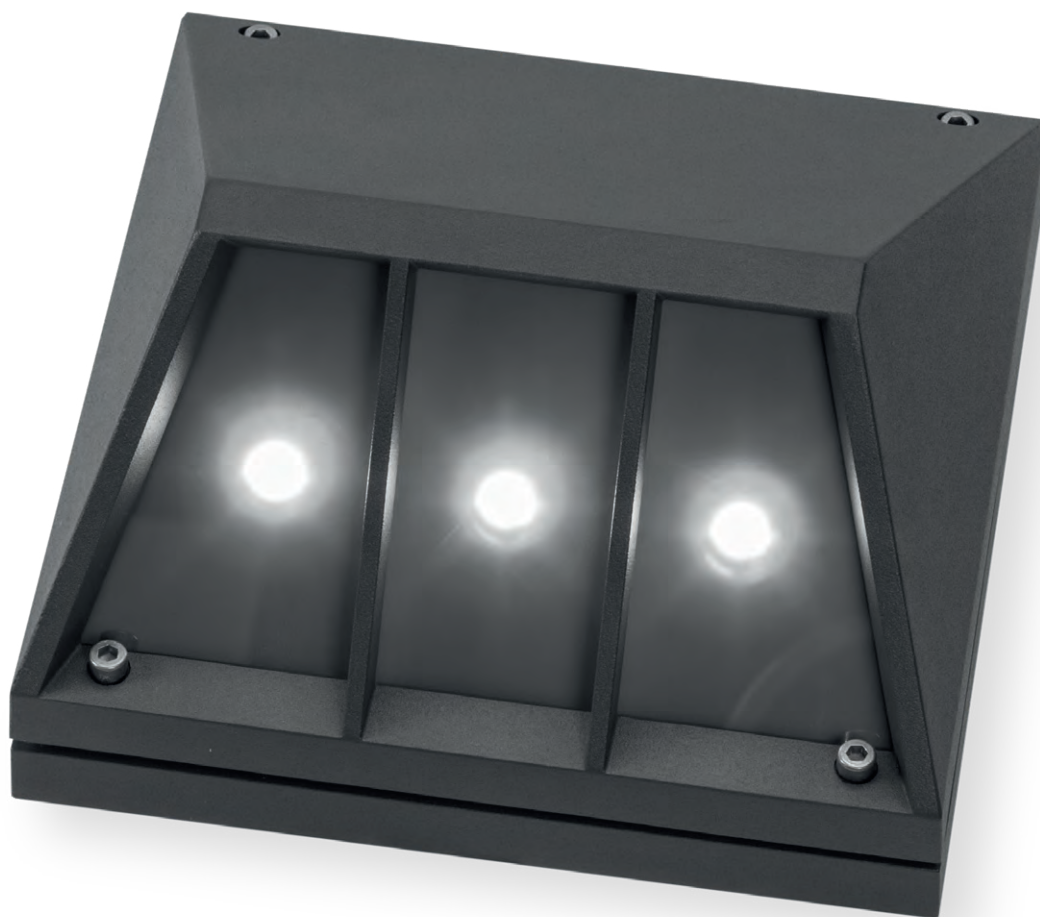
Ceiling cutout: Ø 74 mm
Maximum ceiling thickness: 40 mm

Installation in an existing device junction box
with standard combination distance of 71 mm



LED driver with monitoring module for installation
in an existing device junction box with standard
combination distance of 71 mm in accordance
with DIN 49073-1 (deep version)

LED Master **LM1** IP65 LED



A product with two hearts. The platform of this high-quality diecast aluminium emergency luminaire is an enclosure body made by BEGA. To counteract direct glare, the LED Master LM1 has a satin finish glass cover, which has an output angle of 45°. Designed for lighting open areas outdoors.

LED Master LM1

SYSTEM LUMINAIRE RECHARGEABLE BATTERY LUMINAIRE

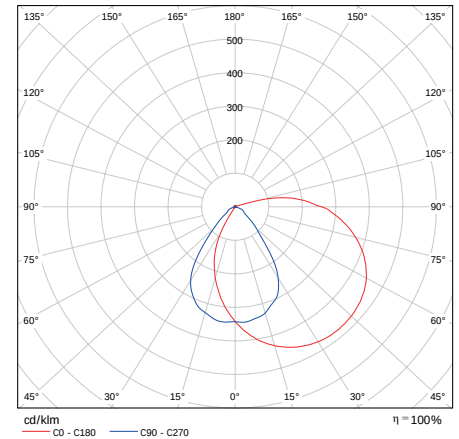
Degree of protection	IP65	
Class	I	
Enclosure material	Die cast aluminium	
Enclosure colour/surface	graphite	
Terminal block	3 x 2.5 ² for through wiring	
Light source	3 x 1 W power LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	10.0 VA/5.5 W	5.6 VA
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery	3.6 V/2.5 Ah (NiCd)	

VERSIONS

1 h with auto-check with BUS check	• •
3 h with auto-check with BUS check	• •
8 h with auto-check with BUS check	• •
without monitoring module	•
with monitoring module	•
with DALI monitoring	•

OPTIONS /ACCESSORIES

- Concrete adapter (for surface-mounted installation)
- Remote supply unit (rechargeable battery luminaire) for mounting in temperature controlled area.
- Connection cable max. 4 m (2.5 mm²) provided on site.



LIGHTING of ESCAPE ROUTES – EN 1838 – t** = 1 m

Installation height h [m]	System	1 h + 3 h + 8 h	System	1 h + 3 h + 8 h
2.00	2.00	Rechargeable battery values on request	4.75	Rechargeable battery values on request
2.50	2.25		5.35	
3.00	2.35		5.85	
3.50	2.45		6.25	
4.00	2.35		6.55	
4.50	2.15		6.70	
5.00	1.70		6.70	

LIGHTING of ESCAPE ROUTES – EN 1838 – t** = 2 m

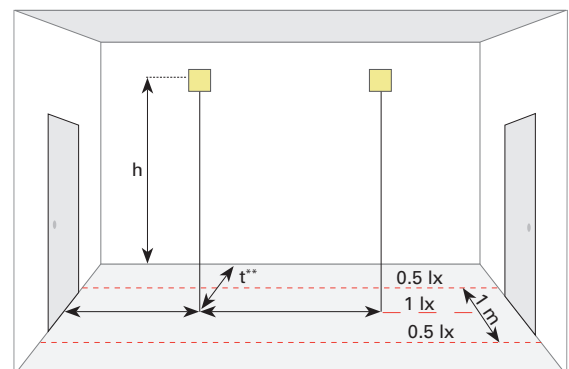
Installation height h [m]	System	1 h + 3 h + 8 h	System	1 h + 3 h + 8 h
2.00	2.05	Rechargeable battery values on request	5.15	Rechargeable battery values on request
2.50	2.30		5.80	
3.00	2.45		6.30	
3.50	2.45		6.65	
4.00	2.35		6.90	
4.50	2.05		7.05	
5.00	1.55		7.05	

LIGHTING of ESCAPE ROUTES – EN 1838 – t** = 3 m

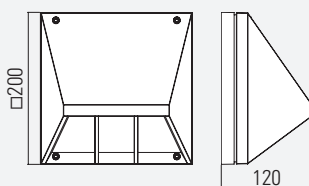
Installation height h [m]	System	1 h + 3 h + 8 h	System	1 h + 3 h + 8 h
2.00	1.65	Rechargeable battery values on request	5.25	Rechargeable battery values on request
2.50	1.90		5.80	
3.00	2.00		6.30	
3.50	1.90		6.60	
4.00	1.70		6.85	
4.50	1.25		6.90	
5.00	-		-	

t** = distance from the wall to the middle of the escape route

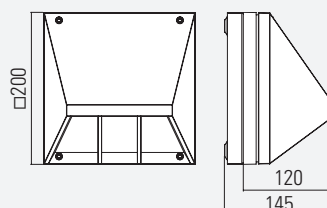
All figures in metres from the middle of the luminaire



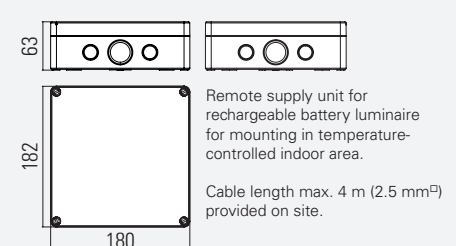
LM1W WALL MOUNTED



LM1W WALL MOUNTED WITH CONCRETE ADAPTER



*REMOTE SUPPLY UNIT (OPTIONAL)



LED Master **LM4** | **PM4** IP41 | IP65 LED



Whether as PM4 for outdoors (IP65) or as LM4 for indoors (IP41), both versions are visually identical. To counteract direct glare, the LED Master LM4/PM4 has a satin finish glass cover, which has an output angle of 45°. Suitable for lighting indoor and outdoor open areas in accordance with EN 1838.

Degree of protection	IP41 (LM4) / IP65 (PM4)	
Class	I	
Enclosure material	Sheet steel (LM4) Stainless steel (PM4)	
Enclosure colour/surface	RAL 7024 (graphite grey)	
Terminal block	3 x 2.5 [□] for through wiring	
Light source	4 x 1 W power LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	13.2 VA/6.7 W	6.2 VA
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V	230V ± 10 %, 50/60 Hz
Rechargeable battery	3.6 V/4.4 Ah (NiMH)	

VERSIONS

1 h with auto-check with BUS check	•* •*
3 h with auto-check with BUS check	•* •*
8 h with auto-check with BUS check	•* •*
without monitoring module	•
with monitoring module	•
with DALI monitoring LM4 only	•

SPECIAL FEATURE

- LED Master PM4: Very high degree of protection (IP65)

OPTIONS / ACCESSORIES

- Concrete adapter (for surface-mounted installation) | - Enclosure colour in RAL 9016 (white) | Other colours on request
- Remote supply unit (rechargeable battery luminaire) for mounting in temperature controlled area. Connection cable max. 4 m (2.5 mm²) provided on site

LIGHTING of ESCAPE ROUTES – EN 1838 – (t* = 1 m)

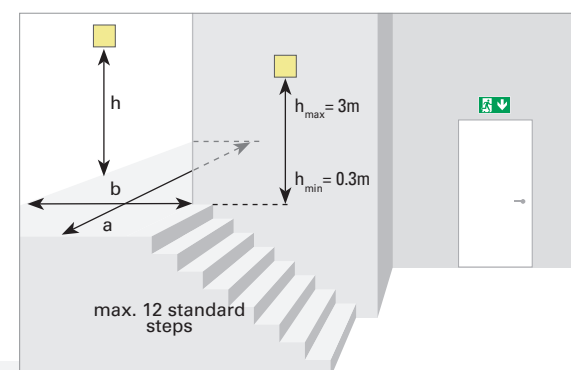
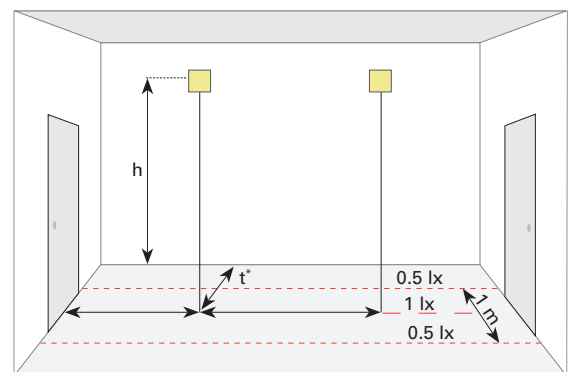
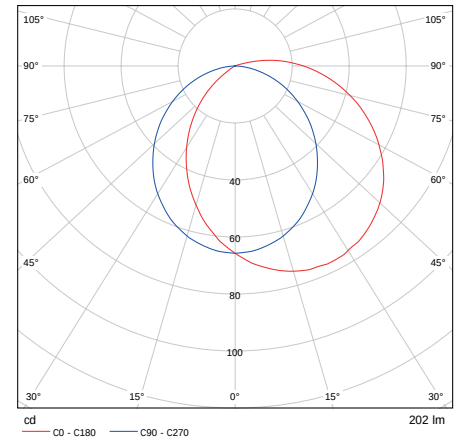
Installation height h [m]	System 1 h + 3 h			System 1 h + 3 h		
	1 h	3 h	8 h	1 h	3 h	8 h
2.00	3.00	2.75	2.25	7.75	7.00	5.75
2.50	3.25	2.75	2.25	8.50	7.50	6.25
3.00	3.50	3.00	2.25	9.00	8.00	6.50
3.50	3.50	3.00	2.00	9.25	8.25	6.50
4.00	3.50	2.75	1.75	9.50	8.25	6.50
4.50	3.50	2.75	1.25	9.75	8.50	6.25
5.00	3.25	2.50	0.75	10.00	8.25	5.25

*t = distance from wall to the middle of the escape route

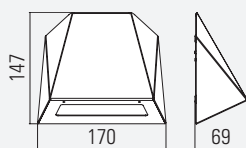
LIGHTING of ESCAPE ROUTES – EN 1838

Installation height h [m]	(a)			(b)		
	System	1 h + 3 h	8 h	System	1 h + 3 h	8 h
2.00	6.10	5.60	4.50	4.00	3.60	1.25
2.50	6.60	5.80	4.50	4.20	3.70	1.25
3.00	6.80	5.80	4.25	4.40	3.80	1.25

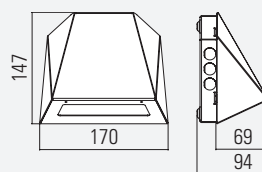
All figures in metres from the middle of the luminaire



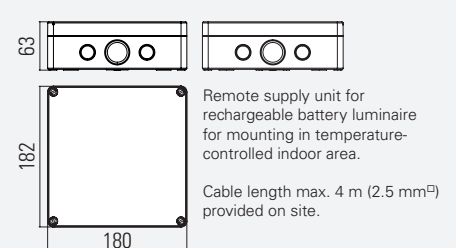
LM4W|PM4W WALL MOUNTED



WALL MOUNTED WITH CONCRETE ADAPTER



*REMOTE SUPPLY UNIT (OPTIONAL)



LED Master **LM5** | **PM5**

IP41 | IP65
LED



Visually identical, the two luminaires differ in their "interior values": While the PM5 was developed for outdoors (IP65), we have designed the LM5 with a lower degree of protection (IP41). To counteract direct glare, the LED Master LM5/PM5 has a satin finish glass cover, which has an output angle of 45°. Suitable for lighting indoor and outdoor open areas in accordance with EN 1838.

Degree of protection	IP41 (LM5) / IP65 (PM5)	
Class	I	
Enclosure material	Sheet steel (LM5) Stainless steel (PM5)	
Enclosure colour/surface	RAL 9016 white	
Terminal block	3 x 2.5 [□] for through wiring	
Light source	4 x 1 W power LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	13.2 VA/6.7 W	6.2 VA
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V	230V ± 10 %, 50/60 Hz
Rechargeable battery	3.6 V/4.4 Ah (NiMH)	

VERSIONS

1 h with auto-check with BUS check	•* •*
3 h with auto-check with BUS check	•* •*
8 h with auto-check with BUS check	•* •*
without monitoring module	•
with monitoring module	•
with DALI monitoring LM5 only	•

SPECIAL FEATURE

- LED Master PM5: Very high degree of protection (IP65)

OPTIONS / ACCESSORIES

- Concrete adapter (for surface-mounted installation) | - Enclosure colour in RAL 9016 (white) | Other colours on request
- Remote supply unit (rechargeable battery luminaire) for mounting in temperature controlled area. Connection cable max. 4 m (2.5 mm²) provided on site

LIGHTING of ESCAPE ROUTES – EN 1838 – (t* = 1 m)

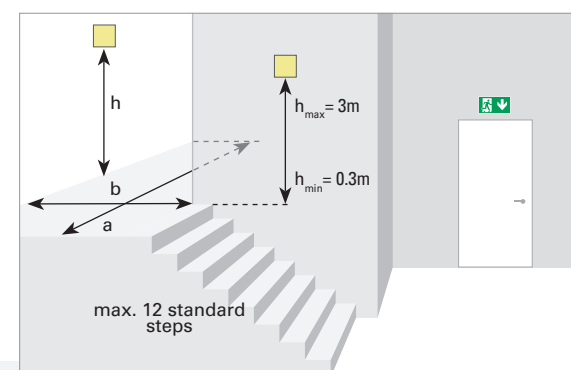
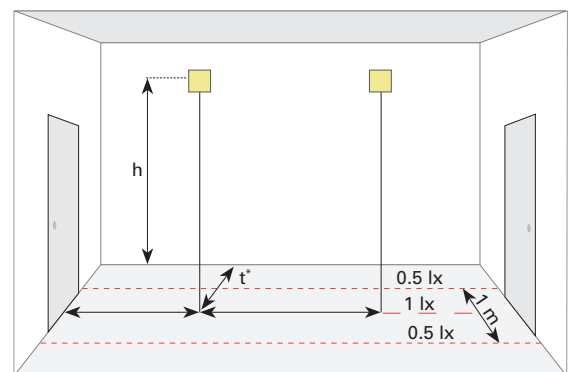
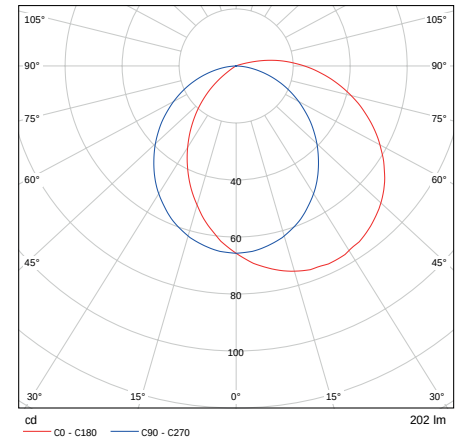
Installation height h [m]	System 1 h + 3 h			System 1 h + 3 h		
	1 h	3 h	8 h	1 h	3 h	8 h
2.00	3.00	2.75	2.25	7.75	7.00	5.75
2.50	3.25	2.75	2.25	8.50	7.50	6.25
3.00	3.50	3.00	2.25	9.00	8.00	6.50
3.50	3.50	3.00	2.00	9.25	8.25	6.50
4.00	3.50	2.75	1.75	9.50	8.25	6.50
4.50	3.50	2.75	1.25	9.75	8.50	6.25
5.00	3.25	2.50	0.75	10.00	8.25	5.25

*t = distance from wall to the middle of the escape route

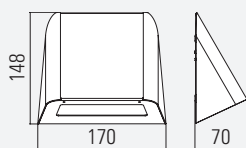
LIGHTING of ESCAPE ROUTES – EN 1838

Installation height h [m]	(a)			(b)		
	System	1 h + 3 h	8 h	System	1 h + 3 h	8 h
2.00	6.10	5.60	4.50	4.00	3.60	1.25
2.50	6.60	5.80	4.50	4.20	3.70	1.25
3.00	6.80	5.80	4.25	4.40	3.80	1.25

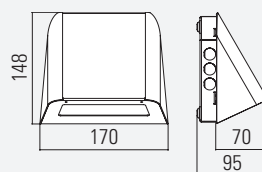
All figures in metres from the middle of the luminaire



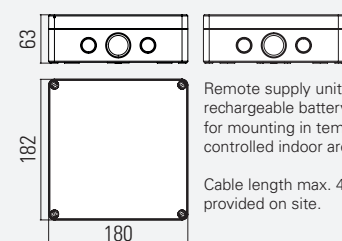
LM5W|PM5W WALL MOUNTED



WALL MOUNTED WITH CONCRETE ADAPTER



*REMOTE SUPPLY UNIT (OPTIONAL)



Remote supply unit for rechargeable battery luminaire for mounting in temperature-controlled indoor area.

Cable length max. 4 m (2.5 mm²) provided on site.



STARLIGHT

SERIES



STARLIGHT **A20** IP20 LED



Development cooperation



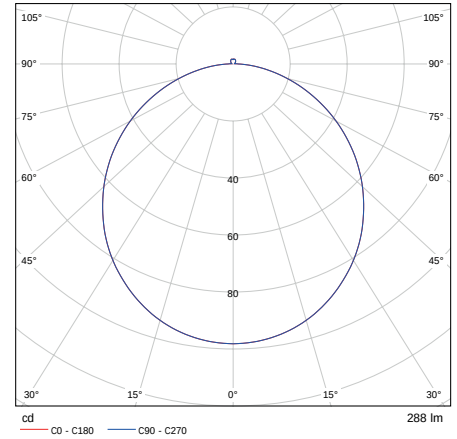
Developed in cooperation with Glamox, in normal mode, this combination luminaire does not differ from the pure general lighting luminaire. In the event of a mains failure, the integrated Gessler emergency lighting element supplies the LED panel with reduced power. The Starlight A20 is therefore the perfect symbiosis of general lighting and emergency luminaire.

STARLIGHT A20 SYSTEM LUMINAIRE RECHARGEABLE BATTERY LUMINAIRE

Degree of protection	IP20	
Class	I	
Enclosure material	Die cast aluminium / PMMA	
Enclosure colour/surface	RAL 9006 (grey)	
Terminal block	3 x 2.5 ² for through wiring	
Light source	LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	8.3 VA/5.2 W	6.2 VA
Connected load (mains)	33.2 VA	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery	3.6 V/2.5 Ah (NiCd)	

VERSIONS

1 h with auto-check with BUS check	• •
3 h with auto-check with BUS check	• •
8 h with auto-check with BUS check	• •
without monitoring module	•
with monitoring module	•
with DALI monitoring	•


LIGHTING of ESCAPE ROUTES in emergency mode

Installation height [m]	System	1 h + 3 h	8 h	System	1 h + 3 h	8 h
2.00	3.50	2.50	1.50	8.50	6.25	4.50
2.50	3.75	2.50	1.50	9.25	6.75	4.50
3.00	4.00	2.50	1.00	10.00	7.00	4.50
3.50	4.00	2.50	0.50	10.50	7.25	4.25
4.00	4.25	2.25		11.00	7.25	

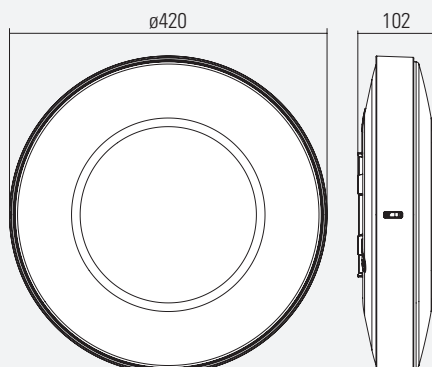
LIGHTING of OPEN AREAS > 60m² (anti-panic lighting) – EN 1838

Installation height [m]	System	1 h + 3 h	8 h	System	1 h + 3 h	8 h
3.00	3.25	2.50	1.25	11.00	6.00	4.75
4.00	3.75	2.75	1.25	12.50	6.50	4.75
5.00	4.25	2.25		13.25	7.00	
6.00	4.75	2.00		13.75	7.00	
7.00	4.75	1.25		14.75	7.00	
8.00	4.75			15.25	7.00	

LIGHTING of SALES AREAS (e.g. self-service stores) – EN 1838

Installation height [m]	System	1 h + 3 h	8 h	System	1 h + 3 h	8 h
3.00	3.00	3.25	1.75	9.00	11.00	6.00
4.00	3.25	3.50	1.75	10.00	12.50	6.50
5.00	3.50	3.75	1.75	10.50	13.75	6.50
6.00	3.75	4.75	1.25	11.00	14.00	6.25
7.00	3.75	4.50	0.75	11.00	15.00	5.75
8.00	3.50	4.50	0.75	11.50	15.50	5.00

All figures in metres from the middle of the luminaire

A20U UNIVERSAL INSTALLATION


STARLIGHT **S01** IP40 LED



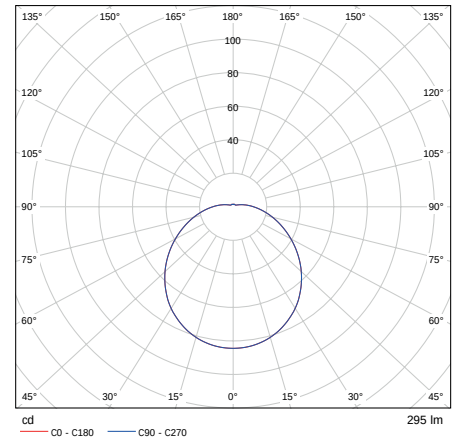
Starlight S01 is a general lighting luminaire with integrated emergency lighting functionality. Visually indistinguishable from our pure general lighting luminaire, the integrated emergency lighting module supplies the LED panel in emergency mode. Suitable for lighting open areas and escape routes according to EN 1838.

STARLIGHT S01
SYSTEM LUMINAIRE RECHARGEABLE BATTERY LUMINAIRE

Degree of protection	IP40	
Class	I	
Enclosure material	PMMA	
Enclosure colour/surface	opal	
Terminal block	3 x 2.5 ² for through wiring	
Light source	LED (4000 K – also available in other colour temperatures)	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	8.3 VA/5.2 W	6.2 VA
Connected load (mains)	33.2 VA	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery	3.6 V/2.5 Ah (Ni-Cd)	

VERSIONS

1 h with auto-check with BUS check	• •
3 h with auto-check with BUS check	• •
8 h with auto-check with BUS check	• •
without monitoring module	•
with monitoring module	•
with DALI monitoring	


LIGHTING of ESCAPE ROUTES in emergency mode

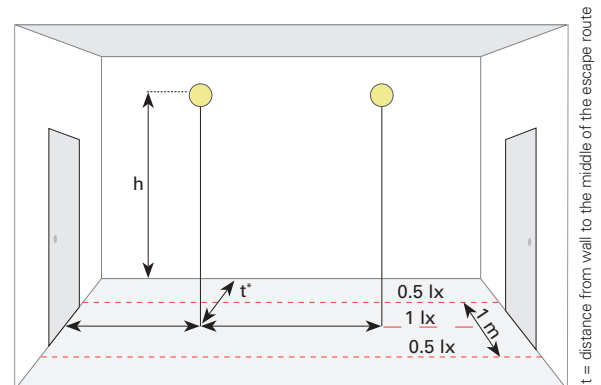
Installation height [m]	System	1 h + 3 h	8 h	System	1 h + 3 h	8 h
2.00	3.50	2.25	1.50	8.50	6.00	4.00
2.50	3.75	2.50	1.25	9.25	6.50	4.00
3.00	3.75	2.50	0.50	9.75	6.75	4.00
3.50	4.00	2.25		10.25	6.75	
4.00	4.00	2.00		10.75	6.75	

LIGHTING of OPEN AREAS > 60m² (anti-panic lighting) – EN 1838

Installation height [m]	System	1 h + 3 h	8 h	System	1 h + 3 h	8 h
3.00	4.25	2.75	1.75	10.00	7.75	5.75
4.00	4.50	2.75	1.75	11.75	9.00	6.00
5.00	4.75	2.75	1.25	12.75	9.50	6.25
6.00	4.75	2.75	1.00	13.75	9.75	5.50
7.00	4.75	2.50	0.75	14.75	10.00	5.00
8.00	4.50	2.50	0.75	15.25	9.75	4.25

LIGHTING of SALES AREAS (e.g. self-service stores) – EN 1838

Installation height [m]	System	1 h + 3 h	8 h	System	1 h + 3 h	8 h
3.00	3.00	2.50	1.25	9.00	6.25	4.50
4.00	3.25	2.50	1.00	10.00	6.75	4.00
5.00	3.50	1.75	0.75	10.50	7.25	3.50
6.00	3.50	1.25	0.75	10.75	7.25	2.75
7.00	3.25	1.25	0.75	11.00	6.00	2.50
8.00	2.75	1.25	0.75	11.50	5.25	1.75


LIGHTING of ESCAPE ROUTES – EN 1838 – (t* = 1 m)

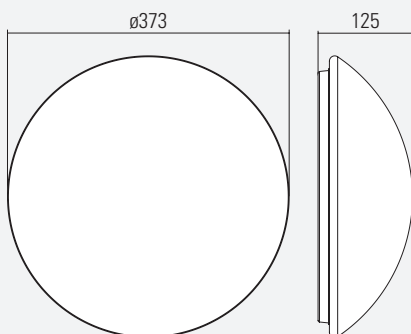
Installation height h [m]	System	1 h + 3 h	8 h	System	1 h + 3 h	8 h
2.00	2.25	1.00		6.25	3.75	
2.50	2.00	0.50		6.25	3.25	
3.00	1.75			6.00		
3.50	1.00			5.50		
4.00						

LIGHTING of ESCAPE ROUTES – EN 1838 – (t* = 2 m)

Installation height h [m]	System	1 h + 3 h	8 h	System	1 h + 3 h	8 h
2.00	2.75	1.00		7.25	4.50	
2.50	2.75	0.50		7.50	4.50	
3.00	2.50			7.25		
3.50	2.00			6.75		
4.00	1.50			6.75		

*t = distance from wall to the middle of the escape route

All figures in metres from the middle of the luminaire

S01U UNIVERSAL INSTALLATION


STARLIGHT **S02** IP40 LED



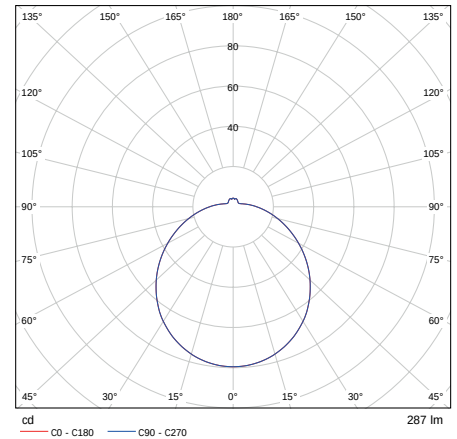
Starlight S02 is a general lighting luminaire with integrated emergency lighting functionality. Visually indistinguishable from our pure general lighting luminaire, the integrated emergency lighting module supplies the LED panel with reduced power in emergency mode. Suitable for lighting open areas and escape routes according to EN 1838.

STARLIGHT S02
SYSTEM LUMINAIRE RECHARGEABLE BATTERY LUMINAIRE

Degree of protection	IP40	
Class	I	
Enclosure material	PMMA	
Enclosure colour/surface	opal	
Terminal block	3 x 2.5 ² for through wiring	
Light source	LED (4000 K – also available in other colour temperatures)	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	8.3 VA/5.2 W	6.2 VA
Connected load (mains)	33.2 VA	
Supply voltage	230V ± 10 %, 50/60Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery	3.6 V/2.5 Ah (Ni-Cd)	

VERSIONS

1 h with auto-check with BUS check	• •
3 h with auto-check with BUS check	• •
8 h with auto-check with BUS check	• •
without monitoring module	•
with monitoring module	•
with DALI monitoring	


LIGHTING of ESCAPE ROUTES in emergency mode

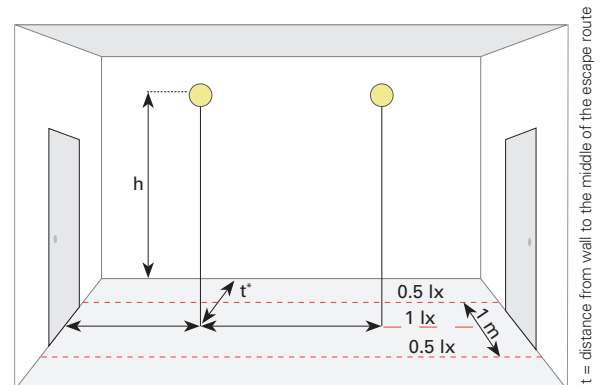
Installation height [m]	System 1 h + 3 h			System 1 h + 3 h		
	1 h + 3 h	8 h	8 h	1 h + 3 h	8 h	8 h
2.00	3.25	2.25	1.25	8.25	6.00	3.75
2.50	3.50	2.50	1.00	9.00	6.50	3.75
3.00	3.75	2.50		9.50	6.75	
3.50	3.75	2.25		10.00	6.75	
4.00	4.00	2.00		10.50	6.75	

LIGHTING of OPEN AREAS > 60m² (anti-panic lighting) – EN 1838

Installation height [m]	System 1 h + 3 h			System 1 h + 3 h		
	1 h + 3 h	8 h	8 h	1 h + 3 h	8 h	8 h
3.00	4.25	3.00	1.75	10.00	8.00	5.50
4.00	4.25	3.00	1.75	11.50	9.25	5.75
5.00	4.50	3.00	1.00	12.75	9.50	5.75
6.00	4.50	3.00	0.75	13.75	9.75	5.00
7.00	4.50	2.50	0.75	14.50	10.00	4.25
8.00	4.50	2.50	0.75	15.00	9.75	4.00

LIGHTING of SALES AREAS (e.g. self-service stores) – EN 1838

Installation height [m]	System 1 h + 3 h			System 1 h + 3 h		
	1 h + 3 h	8 h	8 h	1 h + 3 h	8 h	8 h
3.00	3.00	2.25	1.25	9.00	6.50	4.00
4.00	3.25	2.25	1.00	9.75	6.50	3.25
5.00	3.50	1.75	0.75	10.25	6.75	3.00
6.00	3.50	1.25	0.75	10.50	7.00	2.50
7.00	3.25	1.25	0.75	11.00	5.00	2.00
8.00	2.75	1.25	0.75	11.25	4.00	1.25


LIGHTING of ESCAPE ROUTES – EN 1838 – (t* = 1 m)

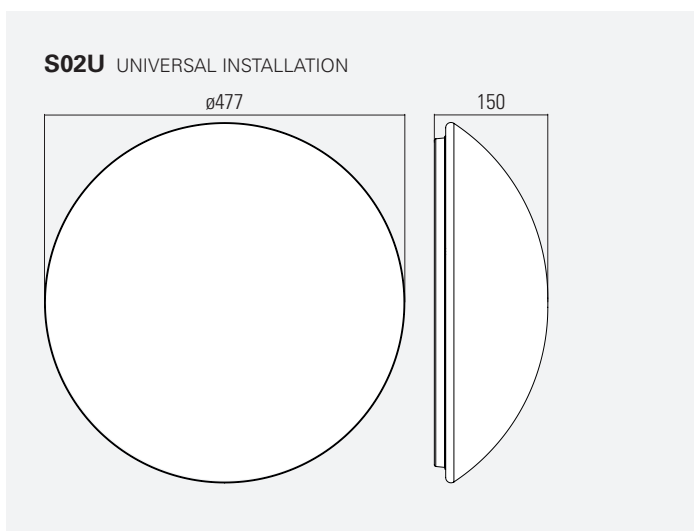
Installation height h [m]	System 1 h + 3 h			System 1 h + 3 h		
	1 h + 3 h	8 h	8 h	1 h + 3 h	8 h	8 h
2.00	2.25	1.00		6.00	3.75	
2.50	2.00	0.50		6.00	3.25	
3.00	1.50			5.75		
3.50						
4.00						

LIGHTING of ESCAPE ROUTES – EN 1838 – (t* = 2 m)

Installation height h [m]	System 1 h + 3 h			System 1 h + 3 h		
	1 h + 3 h	8 h	8 h	1 h + 3 h	8 h	8 h
2.00	2.75	1.00		7.25	4.50	
2.50	2.75	0.50		7.25	4.50	
3.00	2.25			7.25		
3.50	1.50			6.75		
4.00	1.25			6.25		

*t = distance from wall to the middle of the escape route

All figures in metres from the middle of the luminaire



STARLIGHT **S04** IP66 LED



Starlight S04 defies the wind and weather. This decorative emergency luminaire has a weather-resistant enclosure with die cast aluminium look and was especially designed for use in outdoor areas.

STARLIGHT S04

SYSTEM LUMINAIRE

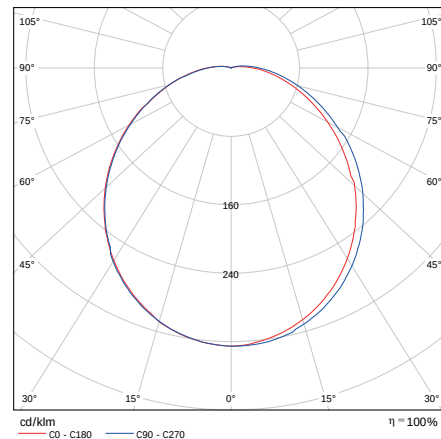
Degree of protection	IP66
Class	II
Enclosure material	PMMA
Enclosure colour/surface	black white
Terminal block	3 x 2.5 ² for through wiring
Light source	LED
Ambient temperature	-20° C to +40° C
Connected load (AC/DC)	18.5 VA/11.0 W
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC

VERSIONS

1 h with auto-check with BUS check	
3 h with auto-check with BUS check	
8 h with auto-check with BUS check	
without monitoring module	•
with monitoring module	•
with DALI monitoring	•

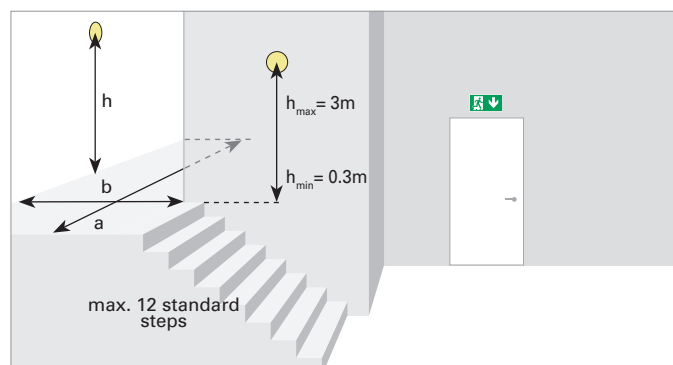
SPECIAL FEATURE

- Very high degree of protection (IP66)
- Weather resistant plastic
- Suitable for outdoors



WALL MOUNTED LIGHTING of ESCAPE ROUTES – EN 1838

Installation height h [m]	a [m]	b [m]
1.00	4.30	3.90
1.50	5.80	5.70
2.00	6.15	6.25
2.50	5.80	6.90
3.00	7.25	5.75



LIGHTING of OPEN AREAS > 60m² (anti-panic lighting) – EN 1838

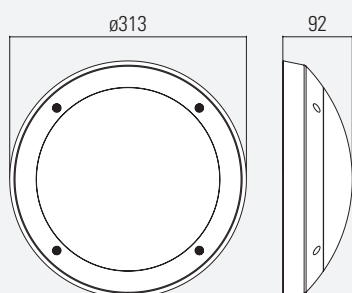
Installation height [m]	1x	0.5 1x
3.00	5.50	14.00
4.00	6.00	16.75
5.00	6.50	17.75
6.00	7.00	19.25
7.00	7.25	20.50
8.00	7.50	21.50
9.00	7.50	22.75

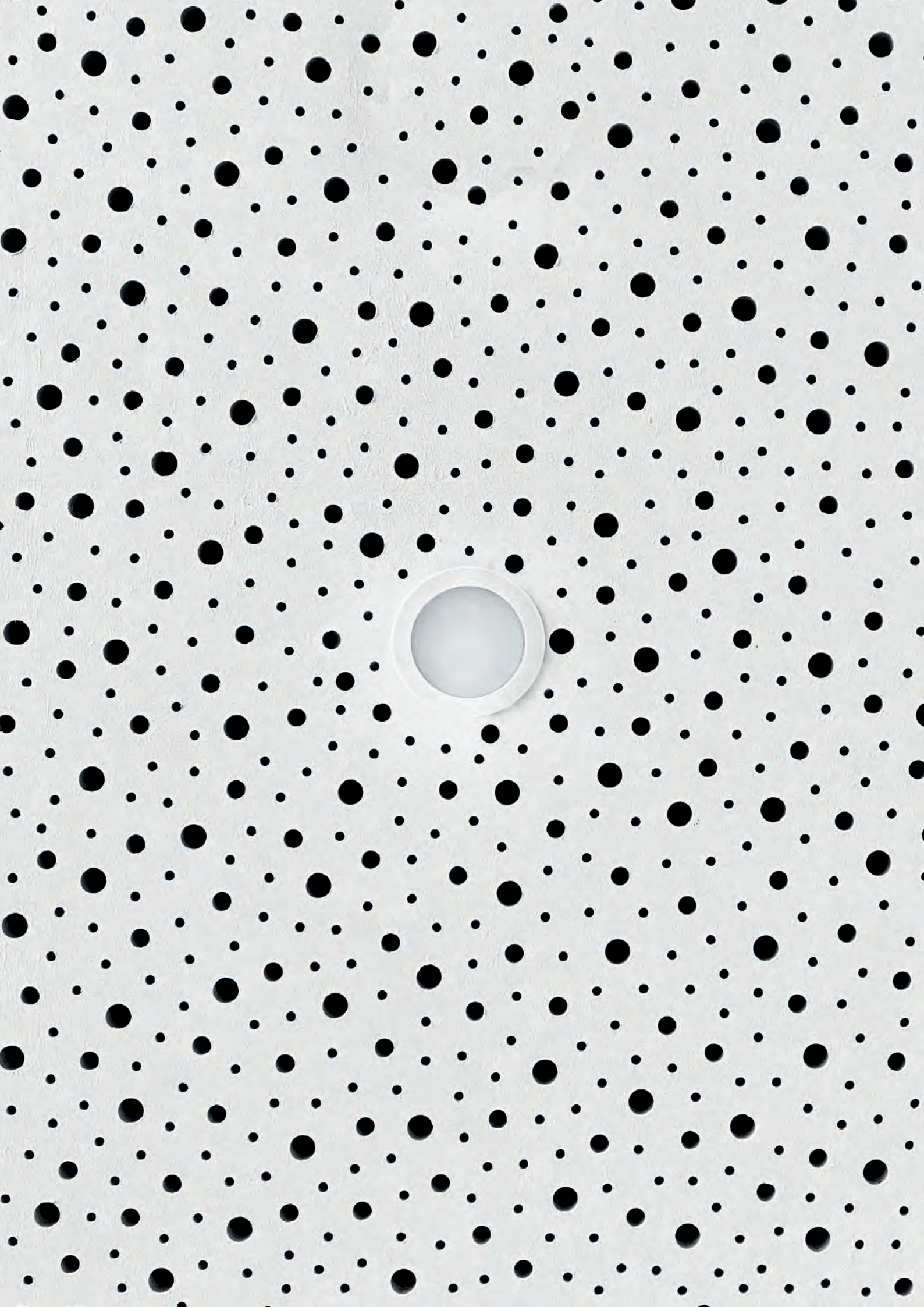
LIGHTING of SALES AREAS (e.g. self-service stores) – EN 1838

Installation height [m]	1x	0.5 1x
3.00	4.00	11.75
4.00	4.50	13.25
5.00	5.00	14.25
6.00	5.00	15.50
7.00	5.25	16.50
8.00	5.25	17.00
9.00	5.00	18.00

All figures in metres from the middle of the luminaire

S04U UNIVERSAL INSTALLATION





LED Spot **LS1** IP40 | IP20 LED



LS1Q | IP40 | SYSTEM LUMINAIRE
RECHARGEABLE BATTERY LUMINAIRE



LS1R | IP40 | SYSTEM LUMINAIRE



LS1E | IP20 | SYSTEM LUMINAIRE
RECHARGEABLE BATTERY LUMINAIRE

The stylish LED non-maintained luminaire with satin finish glass cover is available as a rechargeable battery and as a system luminaire. The luminaire is available for recessed ceiling installation and surface-mounted wall/ceiling installation.

Degree of protection	Recessed IP20 Surface mounted IP40	
Class	I	
Enclosure material	Sheet steel or polycarbonate satin finish glass	
Enclosure colour/surface	white	
Terminal block	3 x 2.5 ² for through wiring	
Light source	LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	11.2 VA/6.1 W	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery		3.6 V/2.5 Ah (Ni-Cd)

VERSIONS

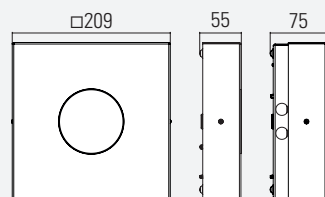
1 h with auto-check with BUS check		• •
3 h with auto-check with BUS check		• •
8 h with auto-check with BUS check		
without monitoring module	•	
with monitoring module	•	
with DALI monitoring		

SPECIAL FEATURE

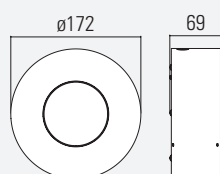
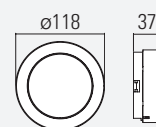
- Satin finish glass cover for homogeneous light distribution
- **LED Spot LS1Q:** Lateral cable entries can be exposed through height adjustment

OPTIONS /ACCESSORIES

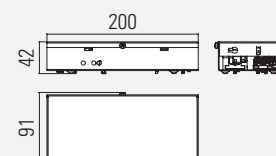
- Ball guard
- Concrete casting box
- ICE-CAP design cover

LS1Q CEILING MOUNTED

Lateral cable entries can be exposed through height adjustment.

LS1R CEILING MOUNTED**LS1E** RECESSED CEILING INSTALLATION

Ceiling cutout: Ø 105 mm
Maximum ceiling thickness: 42 mm
Minimum clear ceiling height: 120 mm



LED SPOT LS1

LIGHTING of ESCAPE ROUTES – EN 1838

1 lx	Installation height [m]	System	1 h + 3 h	System	1 h + 3 h
	2.00	2.95	3.00	7.45	7.45
	2.50	3.20	3.20	8.15	8.15
	3.00	3.35	3.35	8.70	8.70
	3.50	3.40	3.40	9.10	9.10
	4.00	3.50	3.50	9.45	9.45

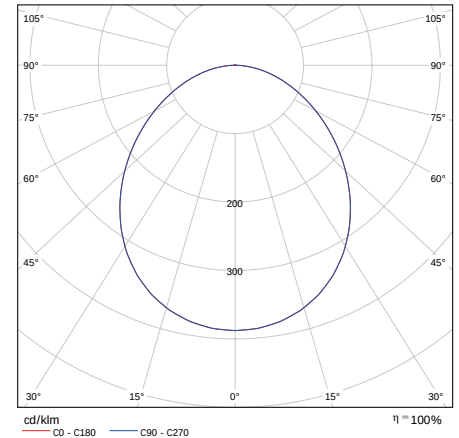
LIGHTING of OPEN AREAS > 60m² (anti-panic lighting) – EN 1838

0.5 lx	Installation height [m]	System	1 h + 3 h	System	1 h + 3 h
	3.00	3.50	3.50	9.20	9.20
	4.00	4.05	4.05	10.30	10.30
	5.00	3.85	3.85	11.55	11.55
	6.00	4.00	4.00	12.50	12.50
	7.00	4.05	4.05	13.10	13.10
	8.00	4.15	4.15	12.85	12.85

LIGHTING of SALES AREAS (e.g. self-service stores) – EN 1838

1 lx	Installation height [m]	System	1 h + 3 h	System	1 h + 3 h
	2.00	2.05	2.05	6.00	6.00
	3.00	2.30	2.30	7.15	7.15
	4.00	2.45	2.45	8.00	8.00
	5.00	2.85	2.85	8.60	8.60
	6.00	2.50	2.50	9.00	9.00
	7.00	1.80	1.80	9.10	9.10

All figures in metres from the middle of the luminaire



LUMINA 2000/1

IP44
LED



Wherever low ceilings pose a problem for the installation of emergency lighting, the Lumina 2000/1 is the preferred solution.

LUMINA 2000/1
SYSTEM LUMINAIRE RECHARGEABLE BATTERY LUMINAIRE

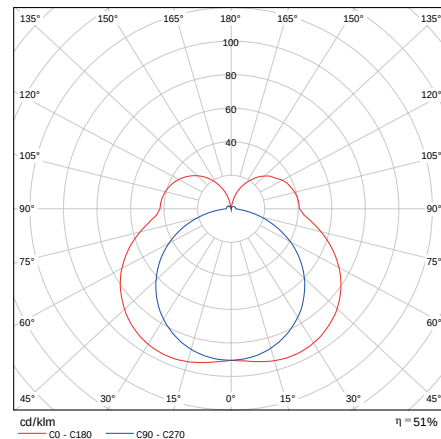
Degree of protection	IP44	
Class	I	
Enclosure material	Polycarbonate	
Enclosure colour/surface	white	
Terminal block	3 x 2.5 ² for through wiring	
Light source	LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C
Connected load (AC/DC)	10.0 VA/5.5 W	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery	3.6 V/2.5 Ah (Ni-Cd)	

VERSIONS

1 h with auto-check with BUS check	• •
3 h with auto-check with BUS check	• •
8 h with auto-check with BUS check	
without monitoring module	•
with monitoring module	•
with DALI monitoring	•

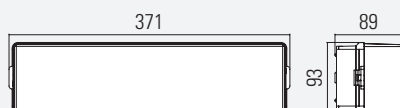
OPTIONS /ACCESSORIES

Ball guard


LIGHTING of ESCAPE ROUTES – EN 1838

Installation height [m]								
	System	1 h + 3 h	System	1 h + 3 h	System	1 h + 3 h	System	1 h + 3 h
2.00	3.20	1.75	8.40	5.25	2.65	1.45	6.85	4.35
2.50	3.30	1.50	8.95	5.20	2.80	1.20	7.35	4.35
3.00	3.35	0.85	9.30	4.95	2.80	0.55	7.70	4.10
3.50	3.25	–	9.50	4.10	2.75	–	7.90	3.40
4.00	3.15	–	9.60	2.50	2.60	–	8.00	1.95

All figures in metres from the middle of the luminaire

L2000/1U UNIVERSAL INSTALLATION


LUMINA 2000/16

IP54
LED



Optional: integrated heating for ensuring the rechargeable battery function at temperatures up to -40 °C



Lumina 2000/16 is a real all-rounder. Whether as an emergency luminaire indoors or outdoors, demanding ambient conditions are no problem at all for the impact resistant housing with high degree of protection. The Lumina 2000/16 can be delivered with optional integrated heating or remote supply unit.

LUMINA 2000/16 SYSTEM LUMINAIRE RECHARGEABLE BATTERY LUMINAIRE

Degree of protection	IP54	
Class	I	
Enclosure material	Polycarbonate	
Enclosure colour/surface	white	
Terminal block	3 x 2.5 ² for through wiring	
Light source	LED	
Ambient temperature	-20° C to +40° C	0° C to +40° C*
Connected load (AC/DC)	10.0 VA/5.5 W	
Supply voltage	230V ± 10 %, 50/60 Hz/176-275 V DC	230V ± 10 %, 50/60 Hz
Rechargeable battery	3.6 V/2.5 Ah (NiCd)	

VERSIONS

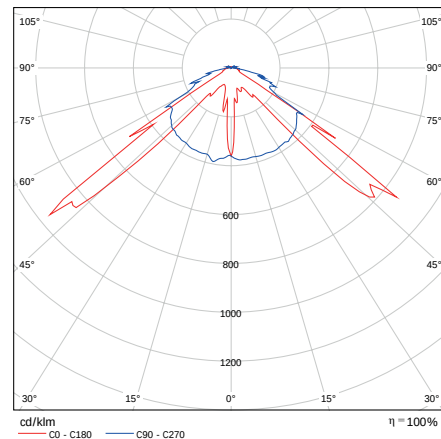
1 h with auto-check with BUS check with heating	• • •
3 h with auto-check with BUS check with heating	• • •
8 h with auto-check with BUS check with heating	• • •
without monitoring module	•
with monitoring module	•
with DALI monitoring	•

SPECIAL FEATURE

- High degree of protection (IP54)
- Impact resistant housing
- Fulfills the IFS standard and the HACCP regulation (food industry)

OPTIONS /ACCESSORIES

- Ball guard
- Integrated heating (to ensure the rechargeable battery function at low temperatures up to -40 °C, output 40 W)
- Remote supply unit (rechargeable battery luminaire) in temperature controlled area*



LIGHTING of ESCAPE ROUTES – EN 1838

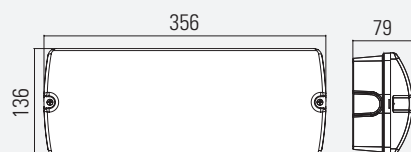
Installation height [m]	System 1 h + 3 h 8 h			System 1 h + 3 h 8 h			System 1 h + 3 h 8 h			System 1 h + 3 h 8 h		
	System	1 h + 3 h	8 h	System	1 h + 3 h	8 h	System	1 h + 3 h	8 h	System	1 h + 3 h	8 h
2.00	3.20	3.20	3.00	6.90	6.90	6.50	3.60	3.60	2.50	9.00	9.00	6.25
2.50	3.85	3.85	1.25	8.30	8.30	3.00	4.15	4.15	2.75	9.55	9.55	6.75
3.00	4.45	4.45	1.00	9.65	9.65	3.75	4.30	4.30	2.50	9.55	9.55	7.25
3.50	2.65	2.63	2.50	8.15	8.15	2.50	4.50	4.50	2.50	11.60	11.62	7.75
4.00	0.90	0.90	0.75	7.90	7.90	2.00	4.45	4.45	2.25	12.10	12.10	7.75

LIGHTING of OPEN AREAS > 60m² (anti-panic lighting) – EN 1838

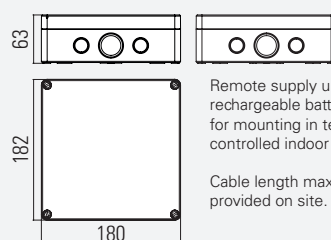
Installation height [m]	System 1 h + 3 h 8 h			System 1 h + 3 h 8 h			System 1 h + 3 h 8 h			System 1 h + 3 h 8 h		
	System	1 h + 3 h	8 h	System	1 h + 3 h	8 h	System	1 h + 3 h	8 h	System	1 h + 3 h	8 h
3.00	5.30	5.30	1.50	10.25	10.25	7.50	2.45	2.45	2.00	7.50	7.50	6.25
4.00	6.65	6.65	1.50	13.05	13.05	8.50	1.75	1.70	1.25	6.90	6.90	6.25
5.00	1.60	1.60	1.25	9.90	9.90	9.00	2.95	2.95	1.75	8.30	8.30	8.25
6.00	–	–	–	–	–	–	–	–	–	–	–	–

All figures in metres from the middle of the luminaire

L2000/16U UNIVERSAL INSTALLATION



*REMOTE SUPPLY UNIT (OPTIONAL)



Remote supply unit for rechargeable battery luminaire for mounting in temperature-controlled indoor area.

Cable length max. 4 m (2.5 mm²) provided on site.

LED Master **LM3** IP43 LED



Universal emergency luminaire made of brushed stainless steel. The slender style of the LM3 enables emergency lighting to be installed under stair treads, concealed, under chairs and in shadow gaps. Optionally available with a grille or window fascia.

LED Master **LM3**

SYSTEM LUMINAIRE

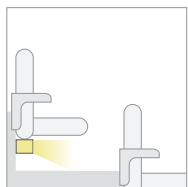
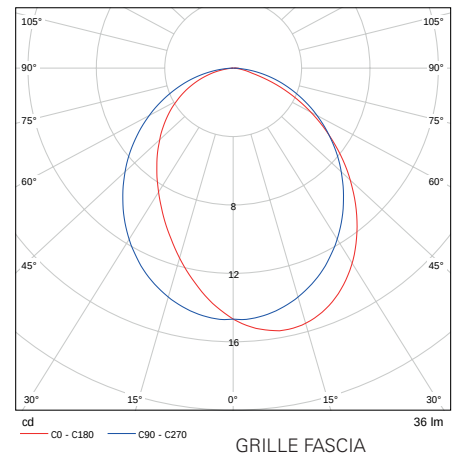
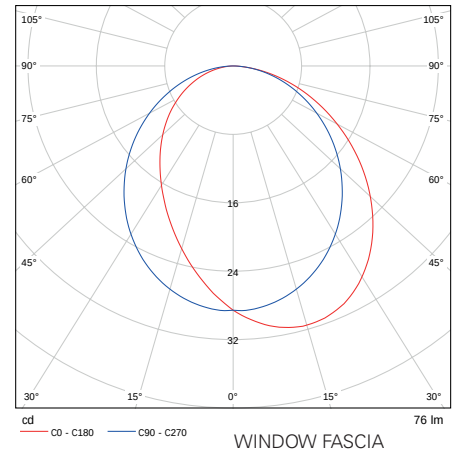
Degree of protection	IP43
Class	I
Enclosure material	Stainless steel
Enclosure colour/surface	brushed
Terminal block	3 x 2.5 [□] for through wiring
Light source	4 x 1 W power LED
Ambient temperature	-20° C to +40° C
Connected load (AC/DC)	13.2 VA / 6.7 W
Supply voltage	230V ± 10 %, 50/60 Hz / 176-275 V DC

VERSIONS

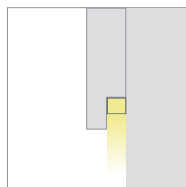
1 h with auto-check with BUS check	
3 h with auto-check with BUS check	
8 h with auto-check with BUS check	
without monitoring module	•
with monitoring module	•
with DALI monitoring	

OPTIONS /ACCESSORIES

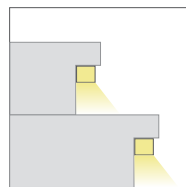
- Grille fascia in brushed stainless steel
- Window fascia in brushed stainless steel
- Enclosure in RAL 9016 (white) and RAL 9005 (matt jet black) | Other colours on request



UNDER CHAIR

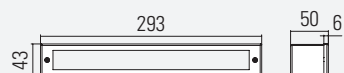


SHADOW GAP

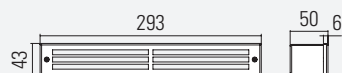


UNDER STEP TREAD

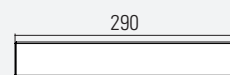
LM3 SUBSTRUCTURE MOUNTING



Window fascia



Grille fascia



SUB-LED **SL1** IP43 LED



SUB-LED SL1 is designed as an emergency luminaire for installation in steps. It lights the steps of stairs in cinemas or theatre halls in compliance with the relevant standards.

SUB-LED SL1

SYSTEM LUMINAIRE

Degree of protection	IP43
Class	I
Enclosure material	Sheet steel
Enclosure colour/surface	Brushed stainless steel sheet steel
Terminal block	3 x 2.5 ² for through wiring
Light source	3 x 1 W power LED
Ambient temperature	-20° C to +40° C
Connected load (AC/DC)	10.0 VA / 5.5 W
Supply voltage	230V ± 10 %, 50/60 Hz / 176-275 V DC

VERSIONS

1 h with auto-check | with BUS check

3 h with auto-check | with BUS check

8 h with auto-check | with BUS check

without monitoring module

•

with monitoring module

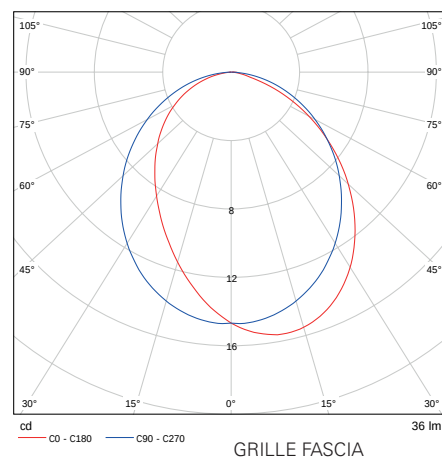
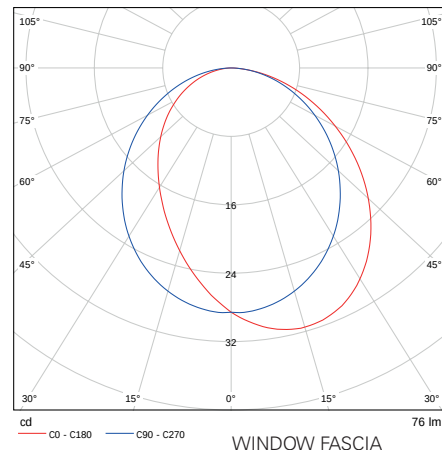
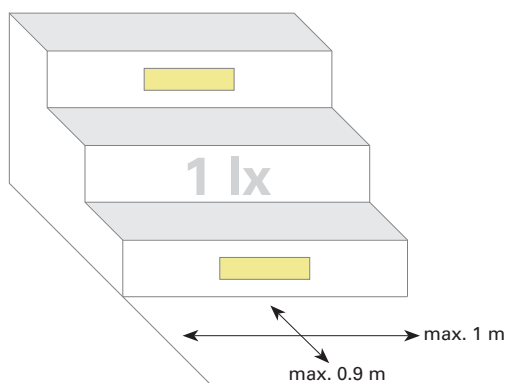
•

with DALI monitoring

•

OPTIONS /ACCESSORIES

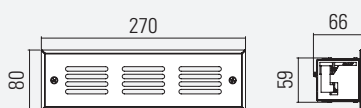
- Window fascia in brushed stainless steel
- Gill fascia in brushed stainless steel
- Concrete casting box
- Enclosure in RAL 9016 (white) and RAL 9005 (matt black) | Other colours on request



SL1 RECESSED WALL INSTALLATION



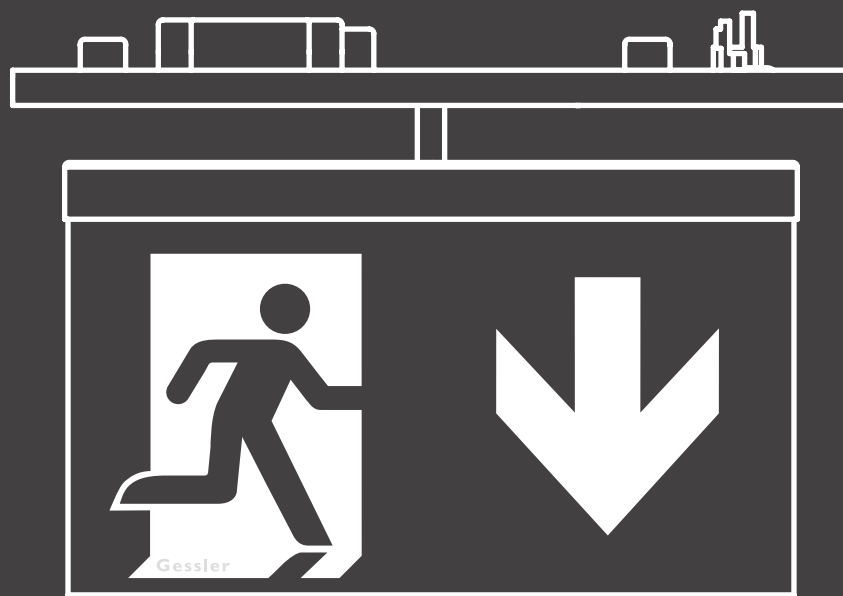
Window fascia



Grille fascia

Wall cutout: 255 x 63 mm
Maximum wall thickness: 34 mm





LINEAR LIGHTING SOLUTIONS



EMERGENCY LIGHTING SOLUTIONS FOR LINEAR LIGHTING SYSTEMS OF LEADING MANUFACTURERS

Modern LED linear lighting systems have long since established themselves as an alternative to conventional lighting concepts. They are a fixed part of the modern lighting concepts of every lighting designer.

Working in close cooperation with leading European manufacturers, we have developed emergency lighting solutions, which can be supplied and monitored from a CPS or LPS system. All emergency lighting components are integrated in a module carrier of the corresponding manufacture and fit perfectly into the overall system, both technically and visually.

A selection of exit sign and emergency luminaires are available for you to choose from for identifying and lighting escape routes. The latter can be optionally equipped with 3 symmetrical (S-lenses), 3 asymmetrical (A-lenses) or with the new F1-lens for focused light (5 lx). For details, please refer to the following pages.

You are sure to find your preferred manufacturer for linear lighting systems with the matching Gessler emergency lighting solution on the following pages.



TRILUX LINEAR LIGHTING SOLUTIONS

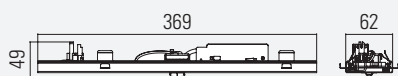
GESSLER FITS IN ANY SYSTEM

The perfect emergency lighting solution for the TRILUX linear lighting system of the E-Line series. All emergency lighting components are integrated in a TRILUX module carrier. This fits perfectly into the overall system, both technically and visually. Two escape sign luminaires with recognition ranges of 24 m and 31 m are available for marking escape and rescue routes. There are also two escape sign cubes with recognition ranges of 25 m and 35 m.

In order to illuminate the escape and rescue route correctly according to standards, a variety of high-performance lenses are available. Whichever lens you choose, the illumination of your escape and rescue route complies with the specifications of EN 1838 and ISO 23601.

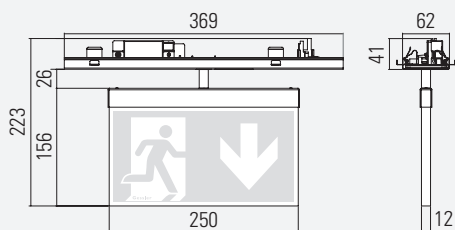


EMERGENCY LUMINAIRE with lens of your choice

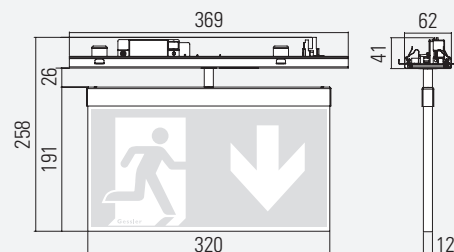


E-LINE

EXIT SIGN LUMINAIRE (24 m)

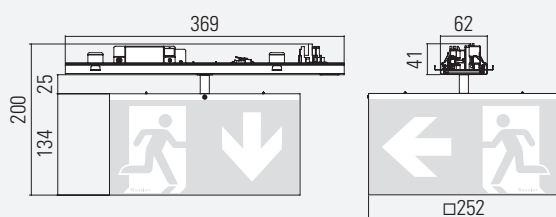


EXIT SIGN LUMINAIRE (31 m)

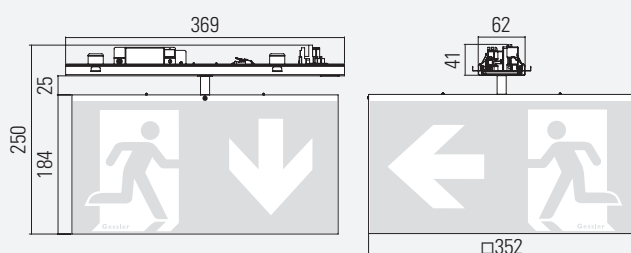




EXIT SIGN CUBE (25 m)



EXIT SIGN CUBE (35 m)



E-LINE

SITECO LINEAR LIGHTING SOLUTIONS

GESSLER FITS IN ANY SYSTEM

The perfect emergency lighting for the SITECO linear lighting system of the MODARIO® series. All emergency lighting components are integrated in a SITECO module carrier. This fits perfectly into the overall system, both technically and visually. Two escape sign luminaires with recognition ranges of 24 m and 31 m are available for marking escape and rescue routes. There are also two escape sign cubes with recognition ranges of 25 m and 35 m.

In order to illuminate the escape and rescue route correctly according to standards, a variety of high-performance lenses are available. Whichever lens you choose, the illumination of your escape and rescue route complies with the specifications of EN 1838 and ISO 23601.

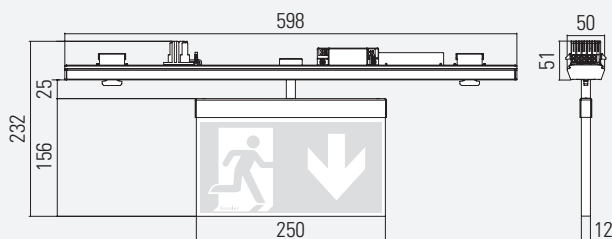


EMERGENCY LUMINAIRE with lens of your choice

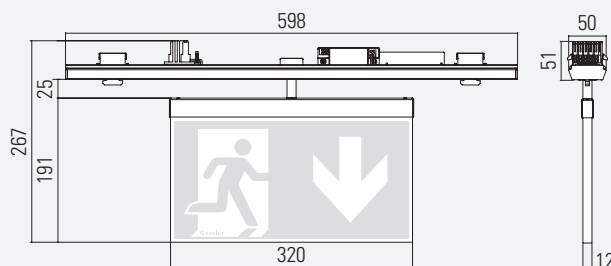


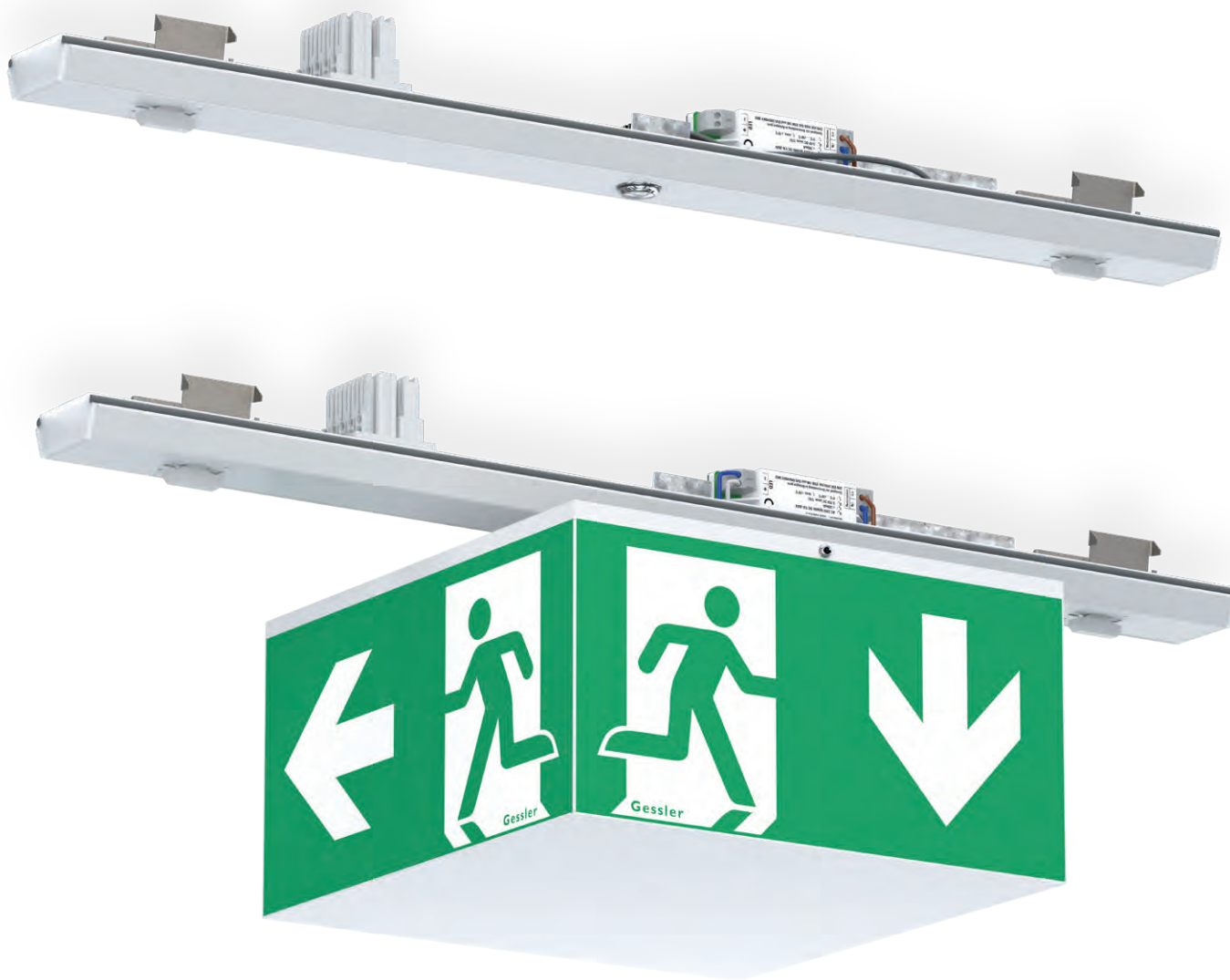
MODARIO®

EXIT SIGN LUMINAIRE (24 m)

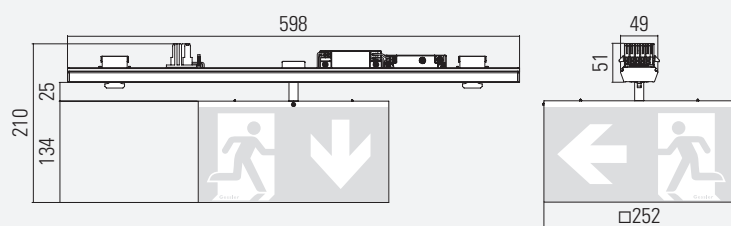


EXIT SIGN LUMINAIRE (31 m)



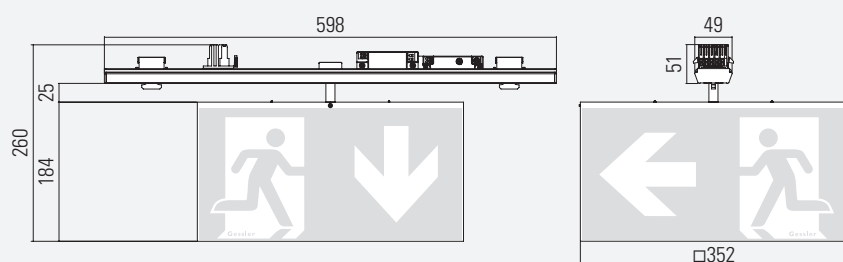


EXIT SIGN CUBE (25 m)



MODARIO®

EXIT SIGN CUBE (35 m)



SITECO LINEAR LIGHTING SOLUTIONS

GESSLER PASST IN JEDES SYSTEM

The perfect emergency lighting for the SITECO linear lighting system of the LICROSS® series. All emergency lighting components are integrated in a SITECO module carrier. This fits perfectly into the overall system, both technically and visually. Two escape sign luminaires with recognition ranges of 24 m and 31 m are available for marking escape and rescue routes. There are also two escape sign cubes with recognition ranges of 25 m and 35 m.

In order to illuminate the escape and rescue route correctly according to standards, a variety of high-performance lenses are available. Whichever lens you choose, the illumination of your escape and rescue route complies with the specifications of EN 1838 and ISO 23601.

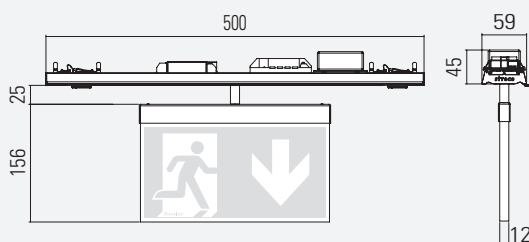


EMERGENCY LUMINAIRE with lens of your choice

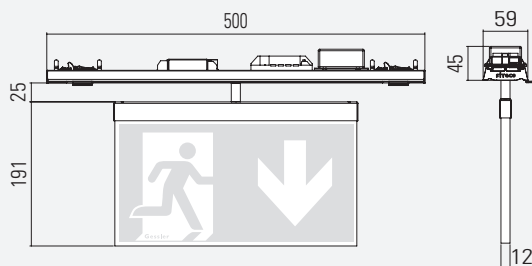


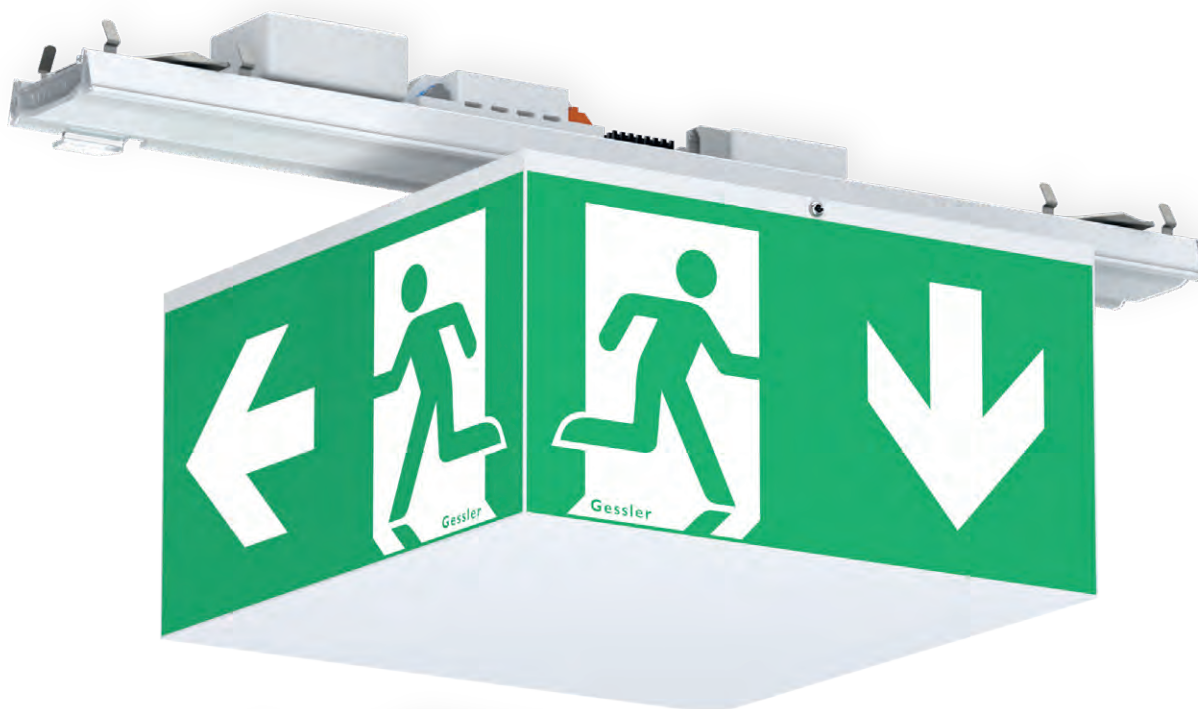
LICROSS®

EXIT SIGN LUMINAIRE (24 m)

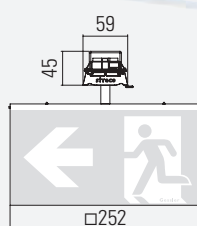
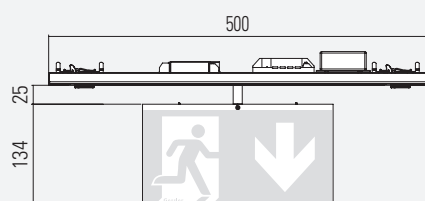


EXIT SIGN LUMINAIRE (31 m)

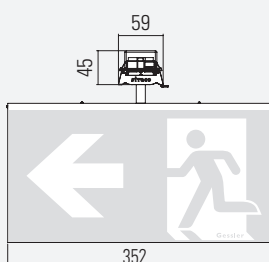
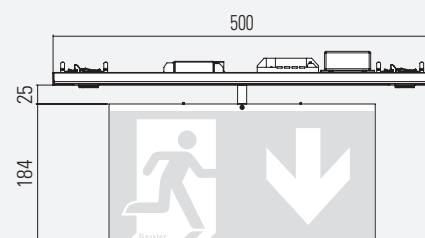




EXIT SIGN CUBE (25m)



EXIT SIGN CUBE (35m)



LICROSS®

REGENT LINEAR LIGHTING SOLUTIONS

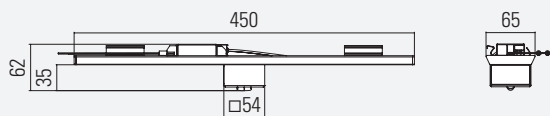
GESSLER FITS IN ANY SYSTEM

The perfect emergency lighting solution for the REGENT linear lighting system of the ICE 344 & TRAQ series. All emergency lighting components are integrated in a REGENT module carrier. This fits perfectly into the overall system, both technically and visually. Two escape sign luminaires with recognition ranges of 24 m and 31 m are available for marking escape and rescue routes. There are also two escape sign cubes with recognition ranges of 25 m and 35 m.

In order to illuminate the escape and rescue route correctly according to standards, a variety of high-performance lenses are available. Whichever lens you choose, the illumination of your escape and rescue route complies with the specifications of EN 1838 and ISO 23601.

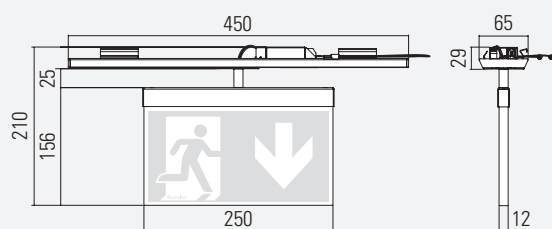


EMERGENCY LUMINAIRE with lens of your choice

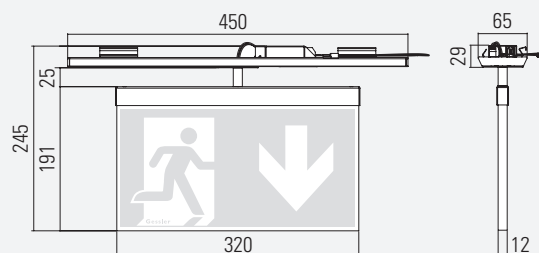


ICE 344

EXIT SIGN LUMINAIRE (24 m)



EXIT SIGN LUMINAIRE (31 m)



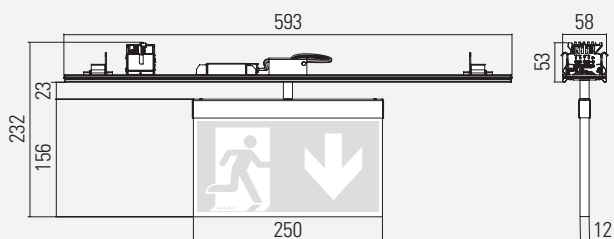


EMERGENCY LUMINAIRE with lens of your choice

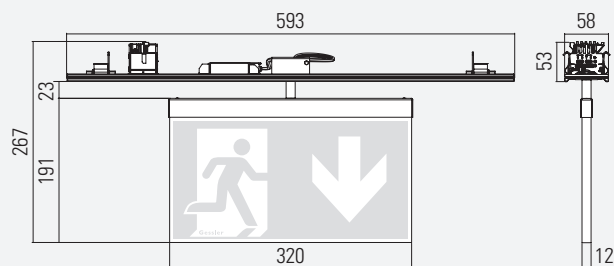


TRAQ

EXIT SIGN LUMINAIRE (24 m)



EXIT SIGN LUMINAIRE (31 m)



LENS VERSIONS

WHICH LENS WOULD YOU LIKE?

Thanks to the modular design of our emergency lighting insert, all the high-performance lenses mentioned here are compatible with all module carriers of the corresponding manufacturers.

TECHNICAL DATA	
Light source	LED
Connected load (AC/DC)	8.5 VA / 5,2 W
VERSION	
without monitoring	•
with monitoring	•
DALI monitoring	



SYMMETRICAL LENSES FOR OPEN AREAS



S1 LENS
Installation height
up to 12 m



S2 LENS
Installation height
up to 18 m



S3 LENS
Installation height
up to 30 m

ASYMMETRICAL LENSES FOR ESCAPE ROUTES



A1 LENS
Installation height
up to 11 m



A2 LENS
Installation height
up to 16 m



A3 LENS
Installation height up
to 30 m

5 LX LENSE FOR FOCUSED LIGHT



F1 LENS
Installation height up
to 3,5 m

SYMMETRICAL LENSES

LIGHTING DATA (EN 1838)

VARIABLE HEIGHTS

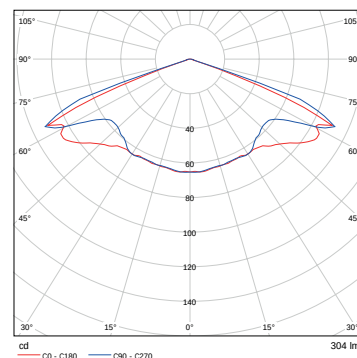
Three symmetrical lenses are available. These are optimised for different mounting heights (2 to 30 m).

Thanks to the modular design of our lens luminaire series, all the lenses shown are compatible with all enclosures.

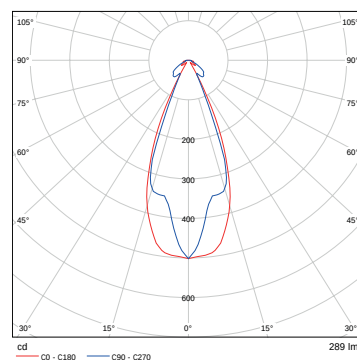
SYMMETRICAL LENSES FOR OPEN AREAS



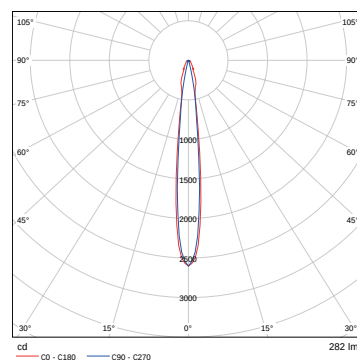
S1 LENS
Installation
height up to
12 m



S2 LENS
Installation
height up to
18 m

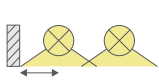
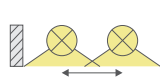
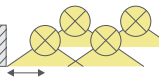
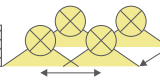
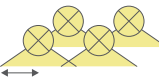
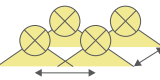


S3 LENS
Installation
height up to
30 m



SYMMETRICAL LENSES

LIGHTING DATA (EN 1838)

Installation height [m]	1 lx Lighting of escape routes						1 lx Lighting of sales areas (self-service stores)						0.5 lx Lighting of open areas > 60m² (anti-panic lighting)					
																		
	S1 lens	S2 lens	S3 lens	S1 lens	S2 lens	S3 lens	S1 lens	S2 lens	S3 lens	S1 lens	S2 lens	S3 lens	S1 lens	S2 lens	S3 lens	S1 lens	S2 lens	S3 lens
2.00	4.50			10.00			3.25			7.75			4.00			8.25		
2.50	4.75			13.50			4.00			10.75			5.25			11.75		
3.00	4.25			13.50			4.00			10.75			5.25			11.75		
4.00	4.00	2.25		12.75	5.00		3.75	1.75		12.25	5.00		6.00	2.25		14.75	7.00	
5.00	3.75	2.75		11.50	6.00		2.50	2.00		11.25	5.50		5.75	2.50		16.50	6.75	
6.00	3.25	3.00		11.00	6.75		2.50	2.75		11.50	6.00		5.00	2.75		16.50	7.25	
7.00	2.25	3.25		11.25	7.75		2.50	3.00		11.50	6.75		4.75	3.00		14.50	8.00	
8.00	1.50	3.50	2.00	6.50	8.25	4.75	2.75	3.25	1.25	9.00	7.50	5.25	3.75	3.50	2.75	15.25	8.50	5.50
9.00		4.00	2.25		9.00	5.25	1.25	3.50	1.75	10.25	8.25	5.50	2.50	4.00	1.50	17.50	9.00	6.75
10.00		4.00	2.25		9.50	5.50	1.25	3.75	2.25	8.00	8.75	5.75	1.75	4.25	2.00	17.75	9.75	7.00
11.00		4.25	2.50		10.00	5.75	1.00	3.75	1.50	6.75	9.25	6.25	1.75	4.50	2.75	17.50	10.50	7.25
12.00		4.50	2.75		10.50	6.25	1.00	4.00	1.75	5.50	9.50	6.25	1.50	4.75	3.25	17.00	11.25	7.50
13.00		4.75	2.75		11.00	6.50		4.00	1.75		10.00	6.50		4.50	2.75		12.00	8.00
14.00		4.75	2.75		11.50	6.75		3.75	1.75		10.25	6.50		5.00	3.00		12.50	8.25
15.00		4.50	3.00		12.00	7.00		3.75	1.75		10.50	6.75		5.25	3.00		13.00	8.50
16.00		4.00	3.00		12.50	7.50		3.50	2.00		10.75	6.50		5.25	3.00		13.25	8.75
17.00		2.25	3.25		12.75	7.75		3.00	2.00		11.00	7.00		5.50	3.00		13.75	8.75
18.00		1.75	3.25		11.75	8.00		2.00	2.00		11.00	7.00		4.75	3.00		14.00	9.00
19.00			3.25			8.25			2.25			7.25			3.00			9.25
20.00			3.25			8.50			2.25			7.50			3.00			9.50
21.00			3.25			8.75			2.25			7.50			3.00			9.50
22.00			3.25			8.75			3.25			7.50			3.25			9.00
23.00			3.25			9.00			2.50			8.00			3.25			9.50
24.00			3.25			9.25			2.50			8.00			3.25			10.00
25.00			3.25			9.25			2.50			8.25			3.25			10.00
26.00			3.25			9.50			2.75			8.25			3.50			10.25
27.00			3.25			9.50			2.75			8.50			3.75			10.25
28.00			3.25			9.50			2.50			8.75			3.75			10.50
29.00			3.25			9.50			2.50			8.75			3.50			10.75
30.00			3.25			9.50			2.75			9.00			3.75			10.75

This table of distances (in metres) is based on the following factors:
measurement plane 2 cm, maintenance factor MF = 80 %, reflectance: 0

Dated: April 2021

ASYMMETRICAL LENSES

LIGHTING DATA (EN 1838)

VARIABLE HEIGHTS

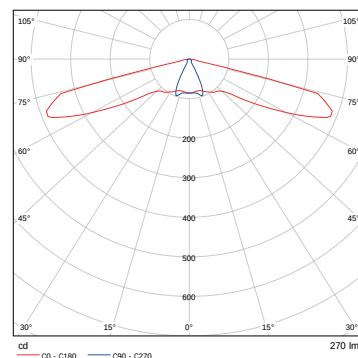
Three asymmetrical lenses are available. These are optimised for different mounting heights (2 to 30 m).

Thanks to the modular design of our lens luminaire series, all the lenses shown are compatible with all enclosures.

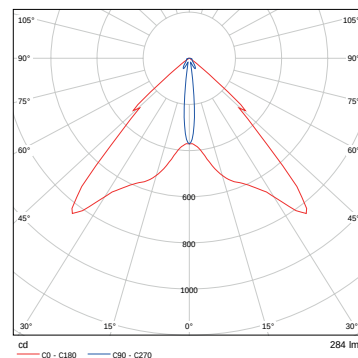
ASYMMETRICAL LENSES FOR ESCAPE ROUTES



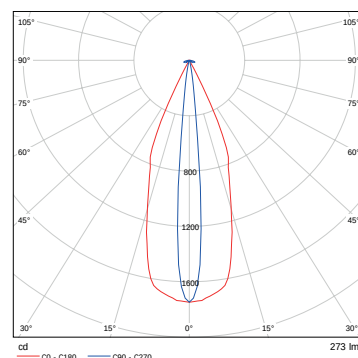
A1 LENS
Installation
height up to
11 m



A2 LENS
Installation
height up to
16 m

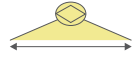


A3 LENS
Installation
height up to
30 m



ASYMMETRICAL LENSES

LIGHTING DATA (EN 1838)

1 lx Lighting of escape routes									
Installation height [m]									
	A1 lens	A2 lens	A3 lens	A1 lens	A2 lens	A3 lens	A1 lens	A2 lens	A3 lens
2.00	7.25			16.00			14.25		
2.50	8.00			19.00			17.00		
3.00	8.50			21.50			17.25		
4.00	9.50	4.75		24.50	10.50		18.75	10.00	
5.00	8.75	5.75		26.50	12.50		17.50	12.00	
6.00	5.25	6.75		27.50	14.50		10.50	14.00	
7.00	4.50	7.75		24.00	16.75		8.25	16.00	
8.00	4.00	8.75	4.00	16.50	18.75	8.75	2.00	17.75	8.25
9.00	2.75	9.00	4.50	14.50	20.75	9.75		18.00	9.25
10.00	1.00	9.50	5.00	8.50	22.25	10.50		19.50	10.00
11.00	1.00	10.25	5.50	3.75	23.75	11.50		20.50	11.00
12.00		11.00	5.75		25.25	12.50		22.00	10.75
13.00		11.50	6.25		25.75	13.25		23.25	12.75
14.00		12.25	6.75		27.00	14.25		24.50	13.50
15.00		12.75	7.00		28.50	15.25		25.75	14.25
16.00		13.25	7.50		29.75	16.00		26.75	15.00
17.00			7.75			17.00			15.50
18.00			8.00			17.75			16.00
19.00			8.25			18.50			16.50
20.00			8.50			19.25			17.00
21.00			8.50			20.00			17.00
22.00			8.50			20.75			17.00
23.00			8.25			21.50			16.75
24.00			8.25			21.50			16.50
25.00			8.00			22.00			16.25
26.00			8.00			22.25			16.00
27.00			8.00			22.75			16.00
28.00			7.75			23.00			15.75
29.00			7.75			23.25			15.50
30.00			7.50			23.50			15.00

This table of distances (in metres) is based on the following factors:
measurement plane 2 cm, maintenance factor MF = 80 %, reflectance: 0

Dated: April 2021

5 LX LENS

LIGHTING DATA (EN 1838)

The EN 1838 standard requires safety lighting near every fire-fighting and alarm system as well as first-aid equipment. We have developed the F1 lens for this purpose. The high-performance lens focuses the light according to the specifications of EN 1838 so that a vertical illuminance of 5 lx is achieved.

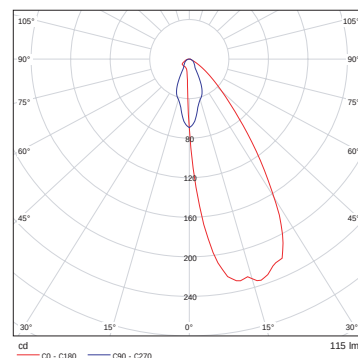
Normative illumination with 5 lx according to EN 1838 and ISO 23601 is required for:

- Fire-fighting equipment (fire extinguishers)
- Safety equipment (first aid boxes)
- Signalling equipment (manual fire detectors)
- Escape and rescue plans

5 LX LENS FOR FOCUSSED LIGHT

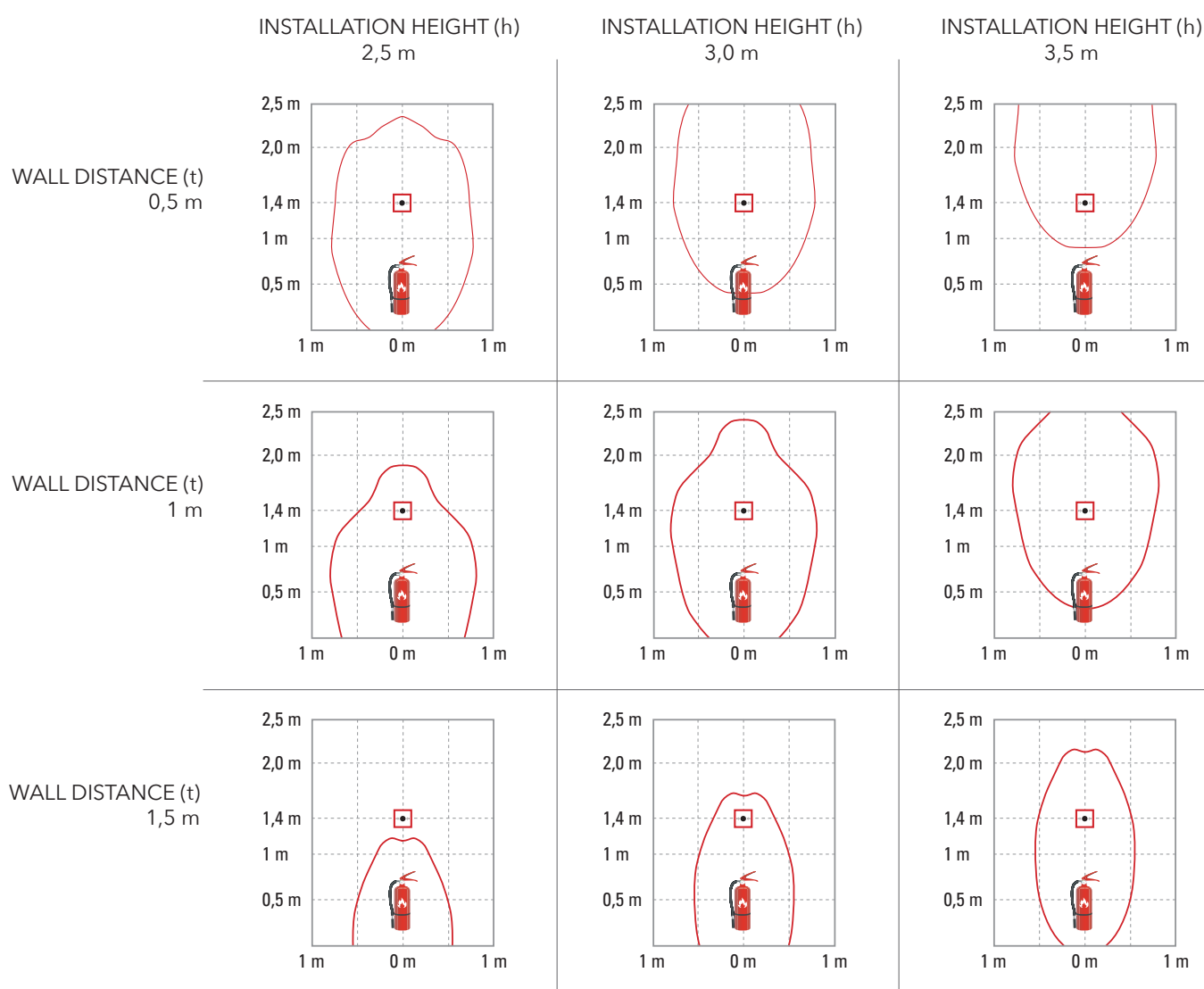


F1 LENS
Installation
height up to
3,5 m

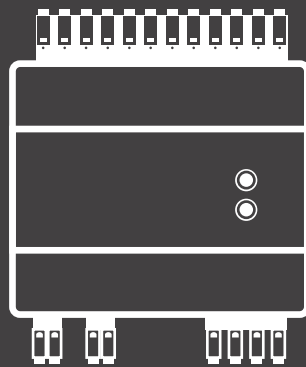


The EN 54

Non-automatic fire detectors must be installed
at a height of 140 cm (+/- 20 cm) above the floor.







ASSEMBLIES & MODULES

Gessler



PRODUCT OVERVIEW



EZ2
Central BUS unit for
rechargeable battery
luminaires
p. 182



DNÜ-MB
BUS phase monitor for
MERLIN systems
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MT2
Indication panel
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I-CONNECT16
BUS phase monitor for
SIBELON systems
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MLB10
Address module for
MERLIN systems
p. 186



WEB-MASTER
High-level visualisation
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MLB10DD
Address module with
DALI disconnection for
MERLIN systems
p. 187



IOM230
Switch interrogation module
230 V for MERLIN systems
p. 194



LB1/009
Address module for
SIBELON systems
p. 188



IOM24
Switch interrogation module
24 V for MERLIN systems
p. 195



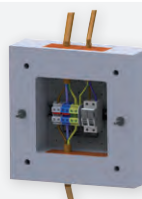
LB1/009DD
Address module with
DALI disconnection for
SIBELON systems
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ELE
Recessed emergency
lighting element
p. 196



DNÜ
Phase monitor
p. 190



RISER JUNCTION BOX
for riser cable installation
p. 198

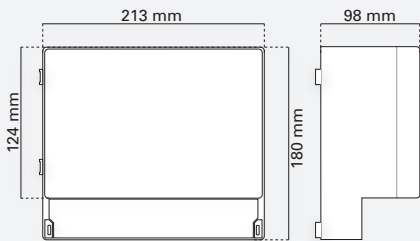
EZ2

Central BUS monitoring unit for self-contained luminaires with detailed fault indication and location in plain text



GENERAL

The Gessler self-contained monitoring system is able to monitor up to 999 loads from a central place. The luminaire test required by the standards is performed by the EZ2 automatically and it records the result in the standard, integrated test log for 4 years.



CENTRAL BUS MONITORING UNIT	EZ2
Degree of protection	IP54
Class	II
Enclosure material	Plastic
Enclosure colour	Light grey
Power (AC)	14 VA
Voltage	230V ± 10 %, 50/60 Hz / 176-275 V DC
Ambient temperature	-10 °C to +55 °C
Address range	999

TEST FUNCTION

The EZ2 performs the weekly functional test required by the VDE automatically. The test times can be freely selected by the operator/owner. All fault messages and events are stored for a period of four years.

MONITORING

As soon as the function of a rechargeable battery luminaire to be monitored is impaired, the central BUS unit identifies this during a functional test and outputs an error message or signal. It is monitored and logged in accordance with DIN EN 62034.

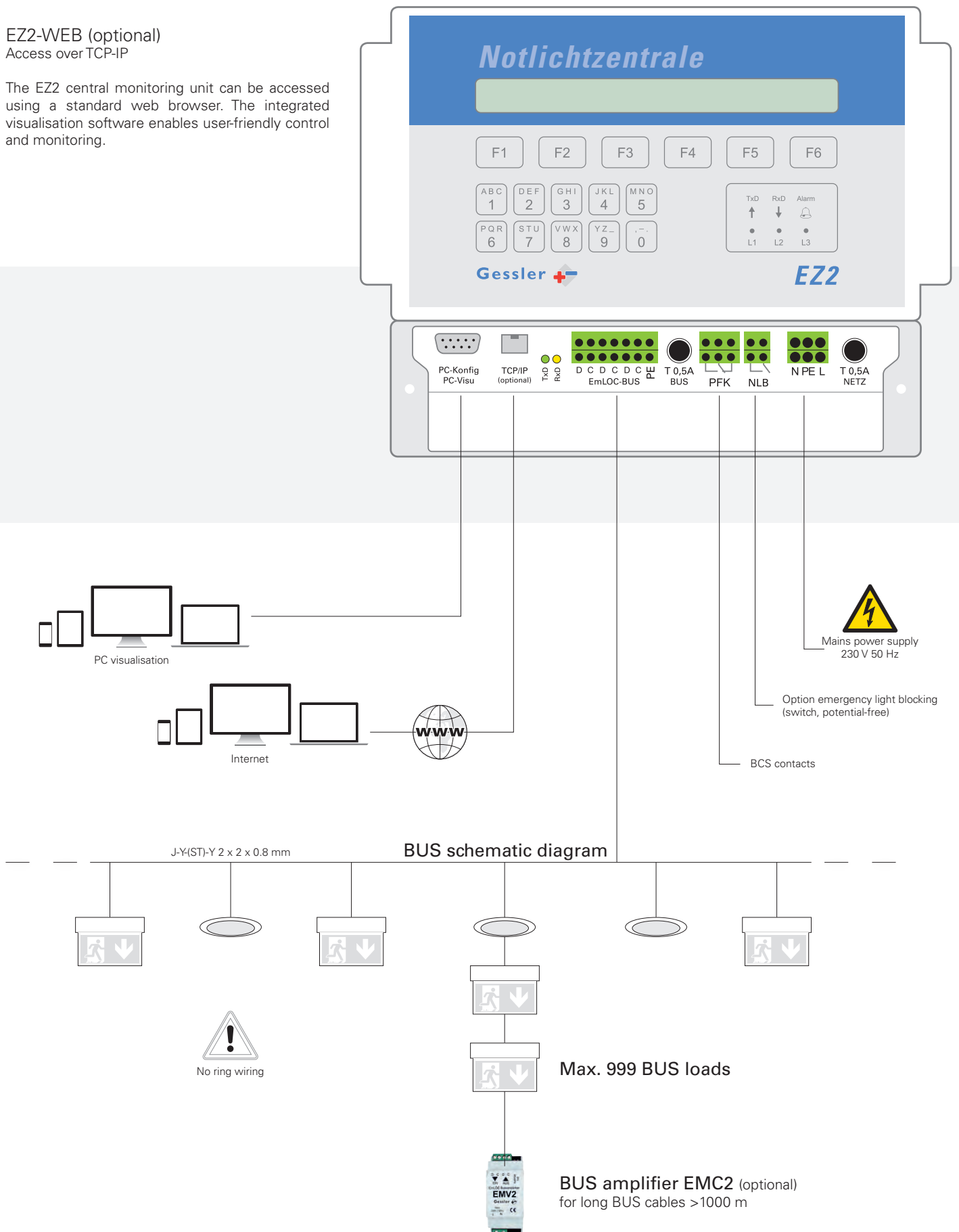
ERROR OUTPUT

In the case of a fault, the error is output optionally as plain text on the display (e.g. rechargeable battery voltage is too high/low, inverter fault, lamp fault or communication error) or via a standard printer interface (serial).

EZ2-WEB

EZ2-WEB (optional) Access over TCP-IP

The EZ2 central monitoring unit can be accessed using a standard web browser. The integrated visualisation software enables user-friendly control and monitoring.



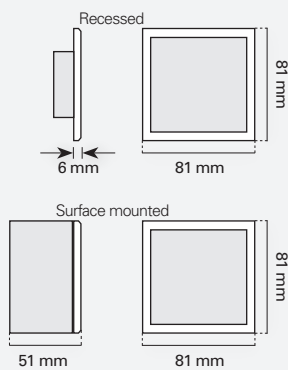
MT2

Indication panel for connection to a Gessler LPS/CPS system



The MT2 indication panel is available not only as a surface-mounted version (MT2-A) but also as a recessed version (MT2-E). The latter is also suitable for installation in an existing device junction box with standard combination distance of 71 mm in accordance with DIN 49073-1.

Optionally available with surface-mounted enclosure (MT2-A)



INDICATION PANEL	MT2-E MT2-A
Enclosure material	Plastic
Enclosure colour	white
Supply voltage	24 V DC
LEDstatus display	Ready, battery mode, fault
Additional control functions	Maintained on/off, LED test, horn off
Degree of protection	IP30

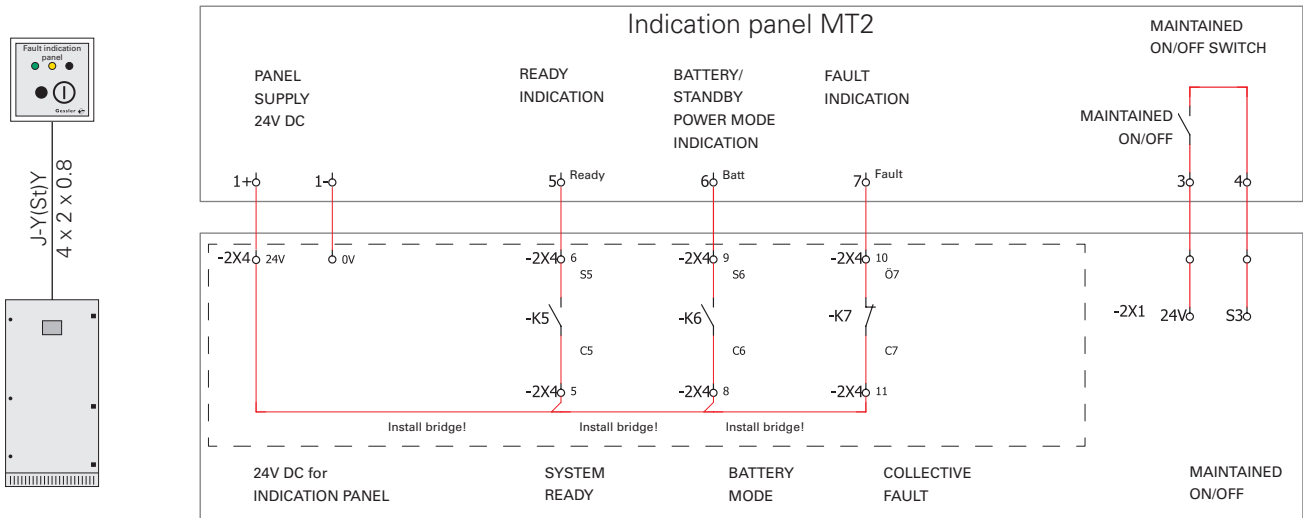


MT2-E

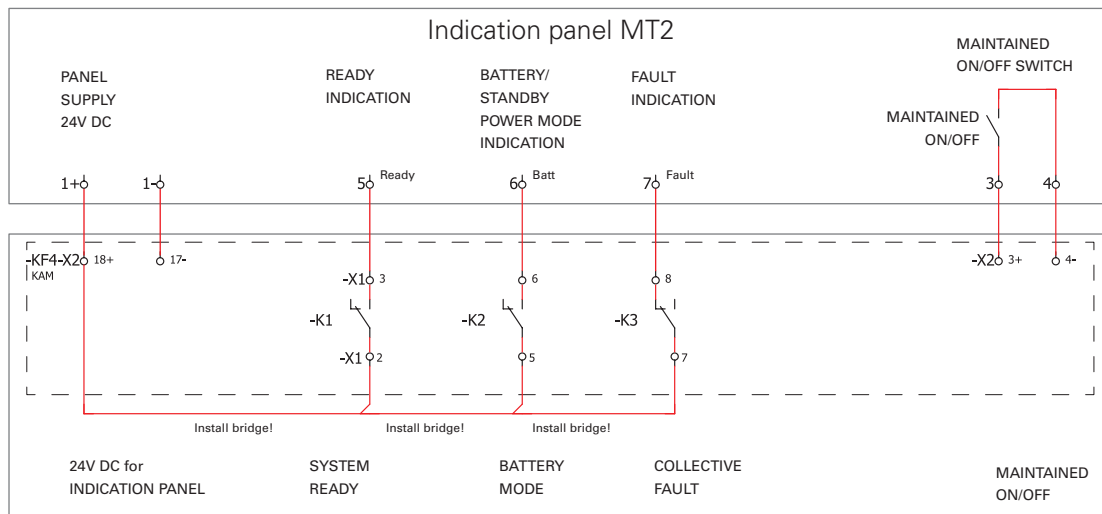
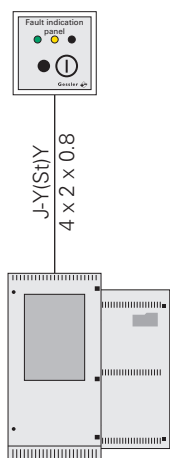


MT2-A

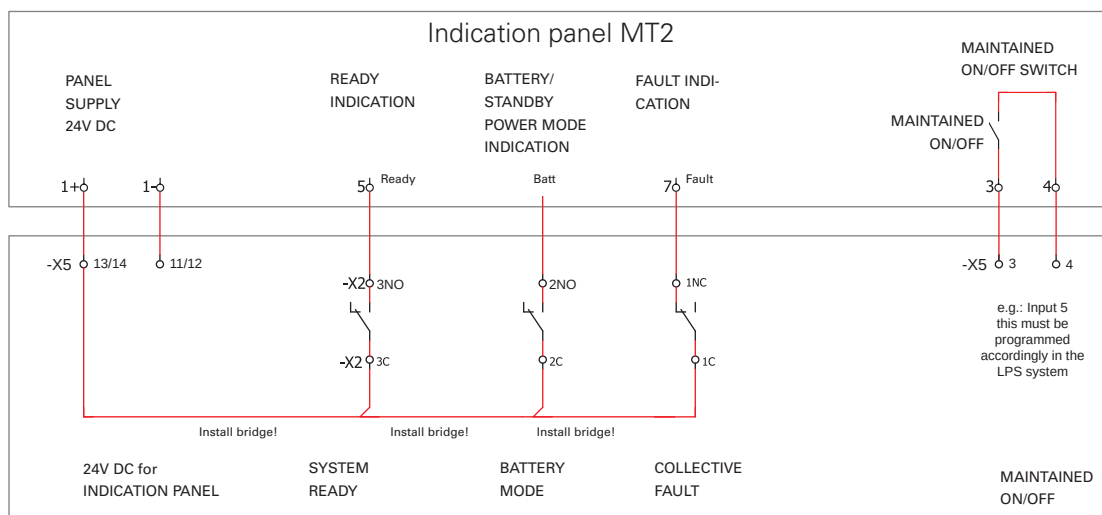
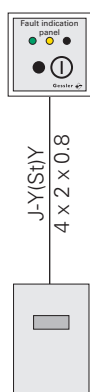
CONNECTION PLAN FOR SIBELON SYSTEMS



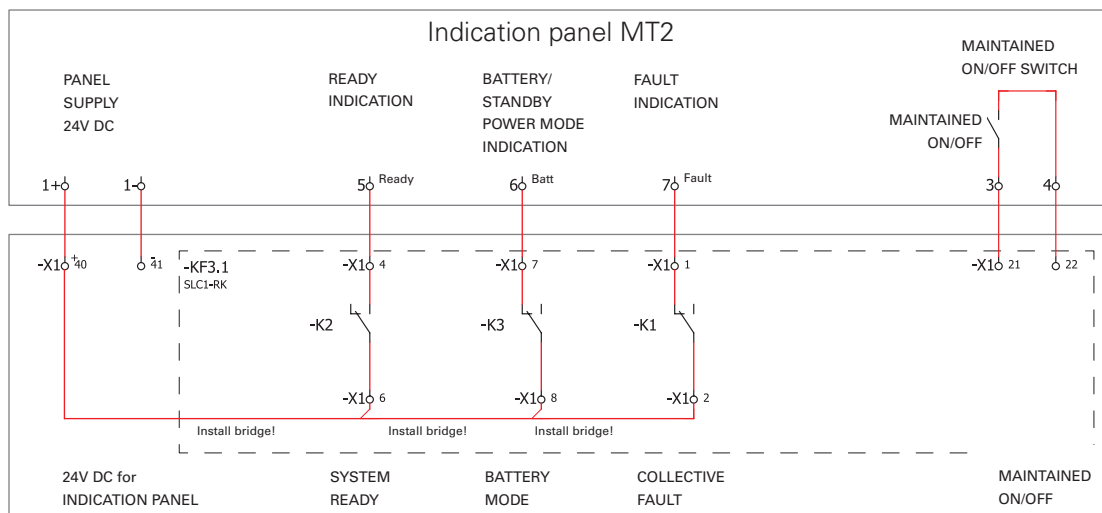
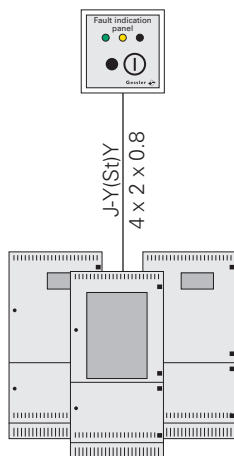
CONNECTION PLAN FOR MERLIN AND KV2000 SYSTEMS



CONNECTION PLAN FOR MERLIN QUATRO SYSTEMS



CONNECTION PLAN FOR SIBECONTROL, SIBELIGHT, SIBEMATIC AND GV1500 SYSTEMS



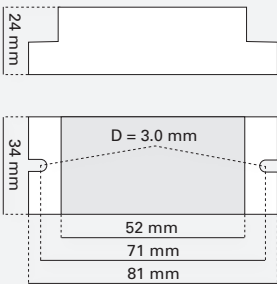
MLB10

Merlin address module with additional hardwired switch

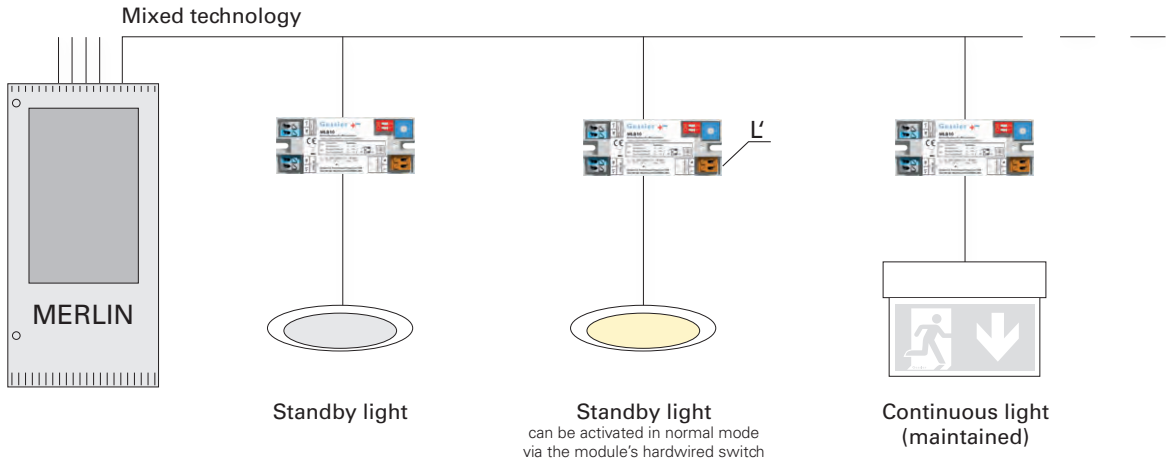


By using the Gessler MLB10 module, exit route and emergency luminaires can be implemented in one circuit (mixed technology). This means a substantial saving in the installation and a reduction of the fire load. The module is not only suitable for AC mains, but also for DC mains systems.

The connected luminaires are monitored and are activated via the hardwired switch with the general lighting. The data is transferred on the supply cable. In the event of a fault in an individual luminaire, the precise location can be indicated on the display of the LPS/CPS system.



LUMINAIRE MODULE	MLB10
Enclosure material	Plastic
Mains/emergency connection	230V ± 10 %, 50/60 Hz / 176-275 V DC
Ambient temperature	-10 °C to +55 °C
Power range	2 – 120 W
Address range	1 to 20
Degree of protection	IP20
Class	I
System	MERLIN + QUATTRO



Merlin address module with DALI disconnection in test and emergency mode

MLB10DD

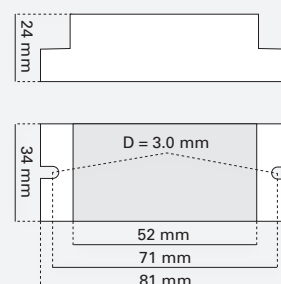
By using the Gessler MLB10 DD module, exit route and emergency luminaires can be implemented in one circuit (mixed technology). This means a substantial saving in the installation and a reduction of the fire load. The module is not only suitable for AC mains, but also for DC mains systems.

The data is transferred on the supply cable. In the event of a fault in an individual luminaire, the precise location can be indicated on the display of the LPS/CPS system.

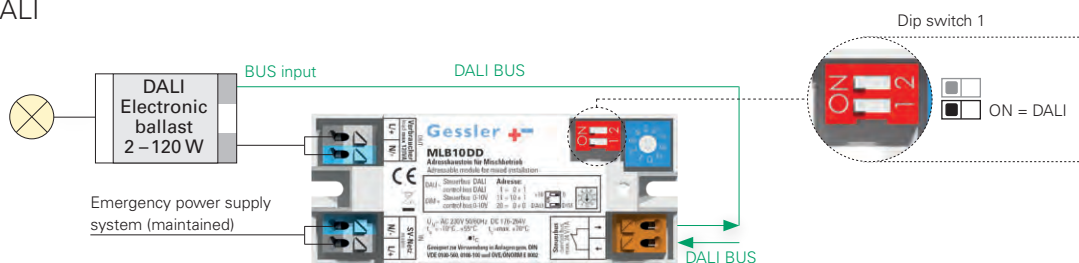
In test and emergency mode, the MLB10DD disconnects the BUS signal from the electronic ballast. Suitable for all dimmable electronic ballasts, which adjust automatically in the event of a lack of a BUS signal.



LUMINAIRE MODULE	MLB10DD
Enclosure material	Plastic
Mains/emergency connection	230V ± 10 %, 50/60 Hz/176-275 V DC
Ambient temperature	-10 °C to +55 °C
Power range	2 – 120 W
Address range	1 to 20
Degree of protection	IP20
Class	I
System	MERLIN + QUATTRO



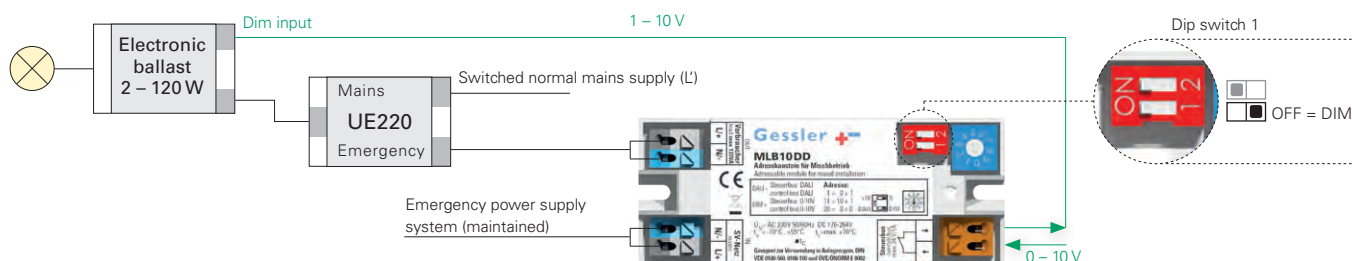
DALI



DALI

After test and emergency mode, the last transmitted DALI command must be transmitted again for all DALI emergency luminaires.

1 – 10 V CONTROL



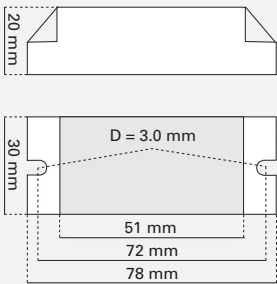
LB1/009

SIBELON address module with additional hardwired switch



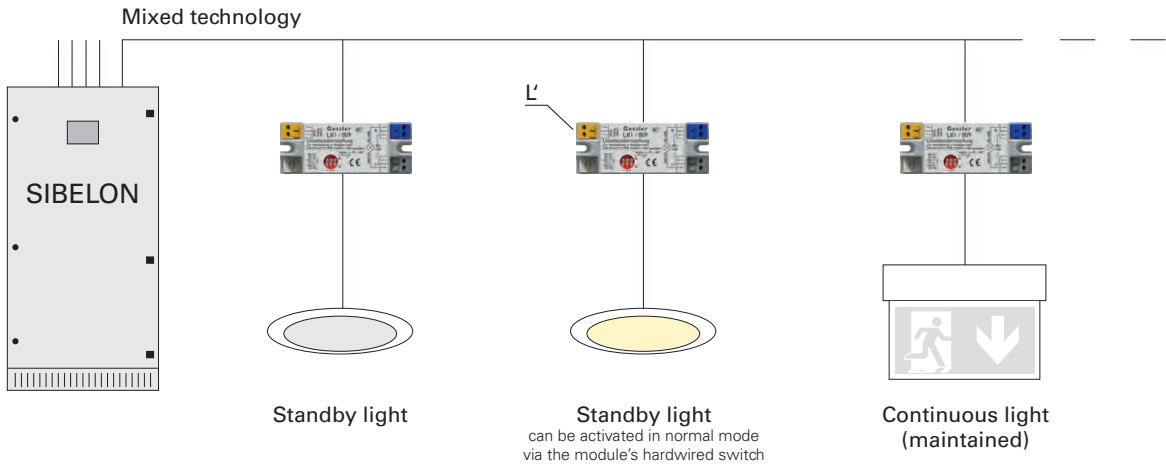
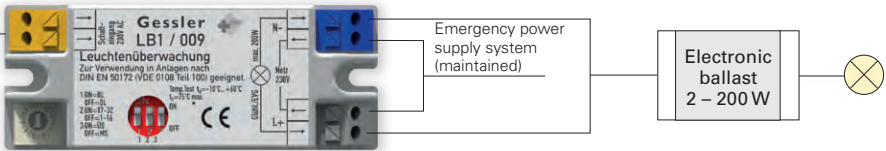
By using the Gessler LB1/009 module, exit route and emergency luminaires can be implemented in one circuit (mixed technology). This means a substantial saving in the installation and a reduction of the fire load. The module is not only suitable for AC mains, but also for DC mains systems.

The connected luminaires are monitored and are activated via the hardwired switch with the general lighting. The data is transferred on the supply cable. In the event of a fault in an individual luminaire, the precise location can be indicated on the display of the LPS/CPS system.



LUMINAIRE MODULE	LB1/009
Enclosure material	Plastic
Mains/emergency connection	230V ± 10 %, 50/60 Hz/176-275 V DC
Ambient temperature	-10 °C to +60 °C
Power range	2 – 200 W
Address range	1 to 20
max. electronic ballast inrush current	45 A/5 ms
Degree of protection	IP20
Class	I
System	SIBELON

Switched normal mains supply (L') / 1ph mains monitor (230 V AC) selectable via sliding switches



SIBELON address module with DALI disconnection in test and emergency mode

LB1/009DD

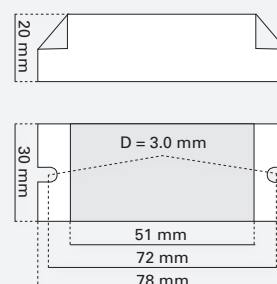
By using the Gessler LB1/009DD module, exit route and emergency luminaires can be implemented in one circuit (mixed technology). This means a substantial saving in the installation and a reduction of the fire load. The module is not only suitable for AC mains, but also for DC mains systems.

The data is transferred on the supply cable. In the event of a fault in an individual luminaire, the precise location can be indicated on the display of the LPS/CPS system.

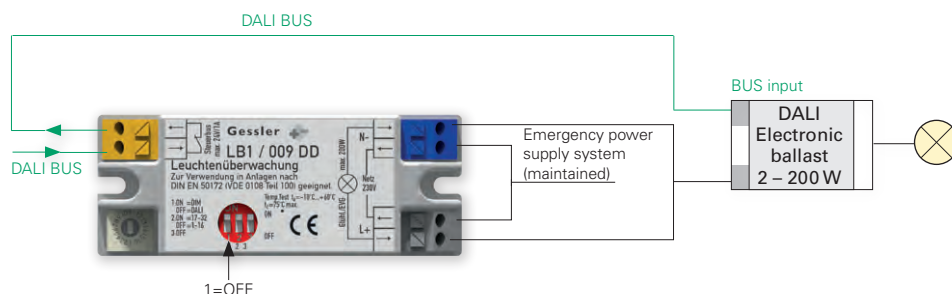
In test and emergency mode the LB1/009DD disconnects the BUS signal from the electronic ballast. Suitable for all dimmable electronic ballasts, which adjust automatically in the event of a lack of a BUS signal.



LUMINAIRE MODULE	LB1/009DD
Enclosure material	Plastic
Mains/emergency connection	230V ± 10 %, 50/60 Hz/176-275 V DC
Ambient temperature	-10 °C to +60 °C
Power range	2 – 200 W
Address range	1 to 20
max. electronic ballast inrush current	45 A/5 ms
Degree of protection	IP20
Class	I
System	SIBELON



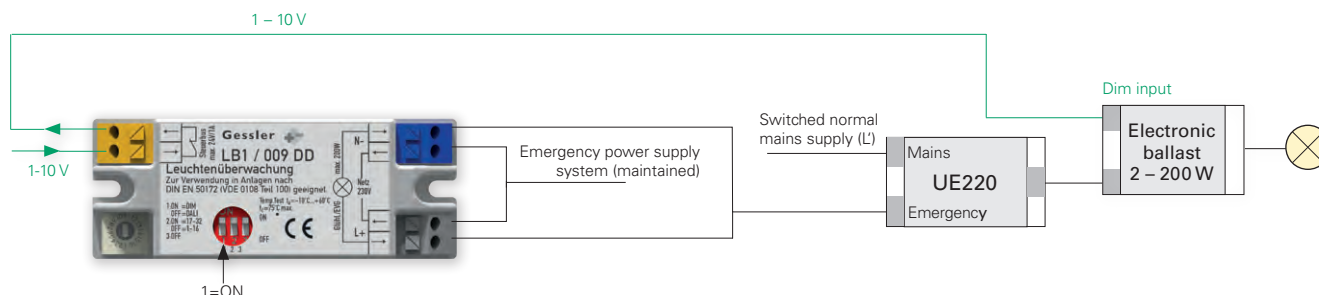
DALI



DALI

After test and emergency mode, the last transmitted DALI command must be transmitted again for all DALI emergency luminaires.

1 – 10 V CONTROL

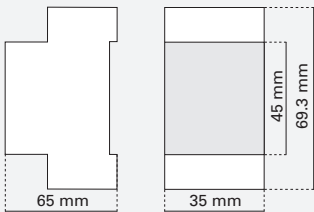


Phase monitor for monitoring the normal mains supply



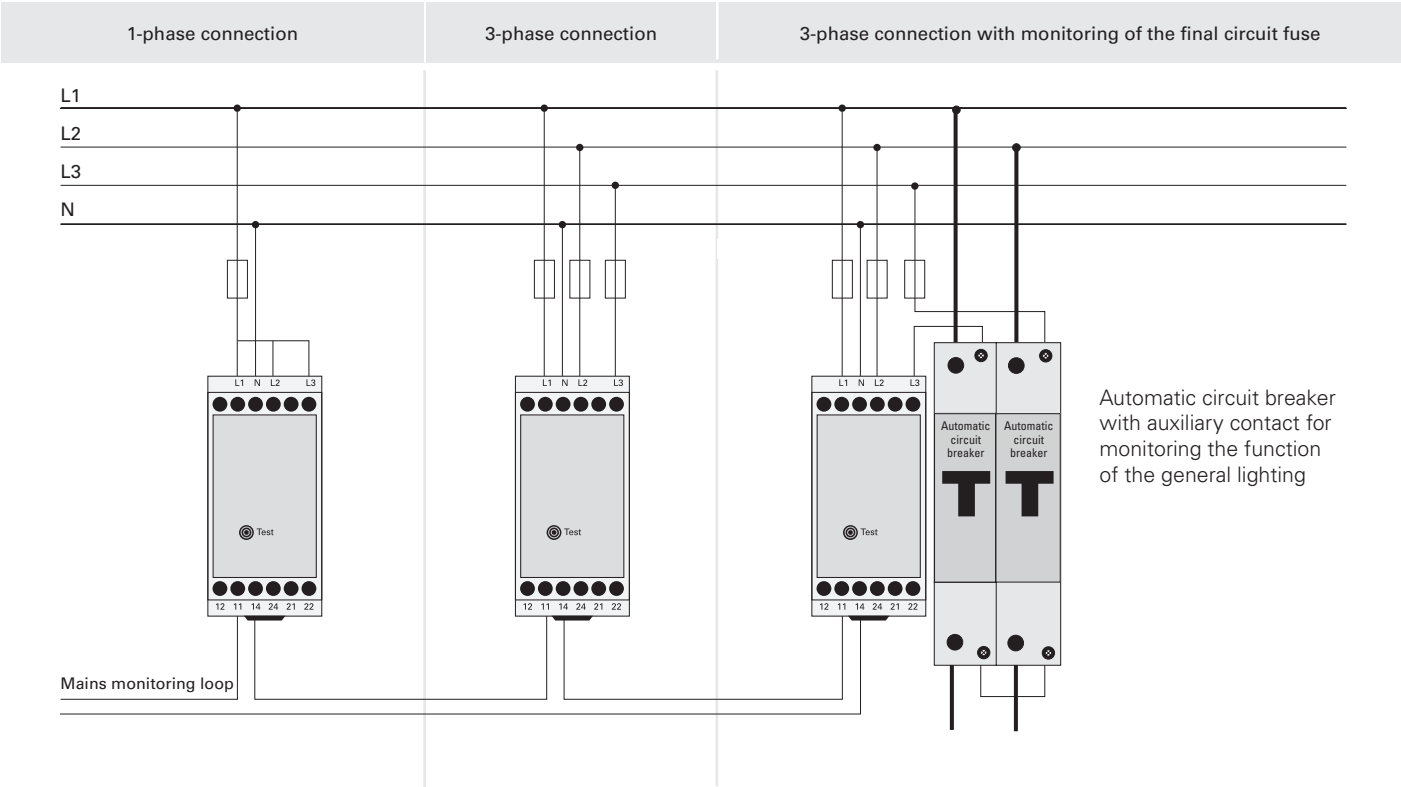
DNÜ is a phase monitor, which is used to monitor the normal mains supply.

The DNÜ is connected to a LPS/CPS system by means of a 24 V mains monitoring loop. As soon as one of the normal mains supply phases to be monitored falls below the nominal voltage by more than 15 %, the phase monitor opens the mains monitoring loop. The LPS/CPS system now switches on the emergency lighting off the area concerned and supplies the luminaires via the mains (local emergency mode).



Top-hat rail mounting 2 HP

PHASE MONITOR	DNÜ
Enclosure material	Plastic
Nominal voltage	230V ± 10 %, 50/60 Hz/176-275 V DC
Power consumption	16 VA
Backup fuse	max. 16 A
Relay contacts	2 x voltage-free change-over contact (max. 4 A)
Display	LED status display (green: operation / red: Normal mains supply fault)
Class	I
System	All systems



Automatic circuit breaker with auxiliary contact for monitoring the function of the general lighting

BUS phase monitor for MERLIN systems for monitoring the normal mains supply

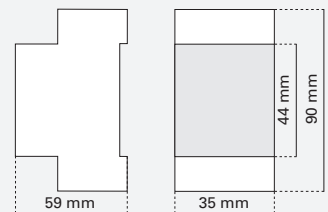
DNÜ-MB

DNÜ-MB is a BUS phase monitor, which is used to monitor the normal mains supply.

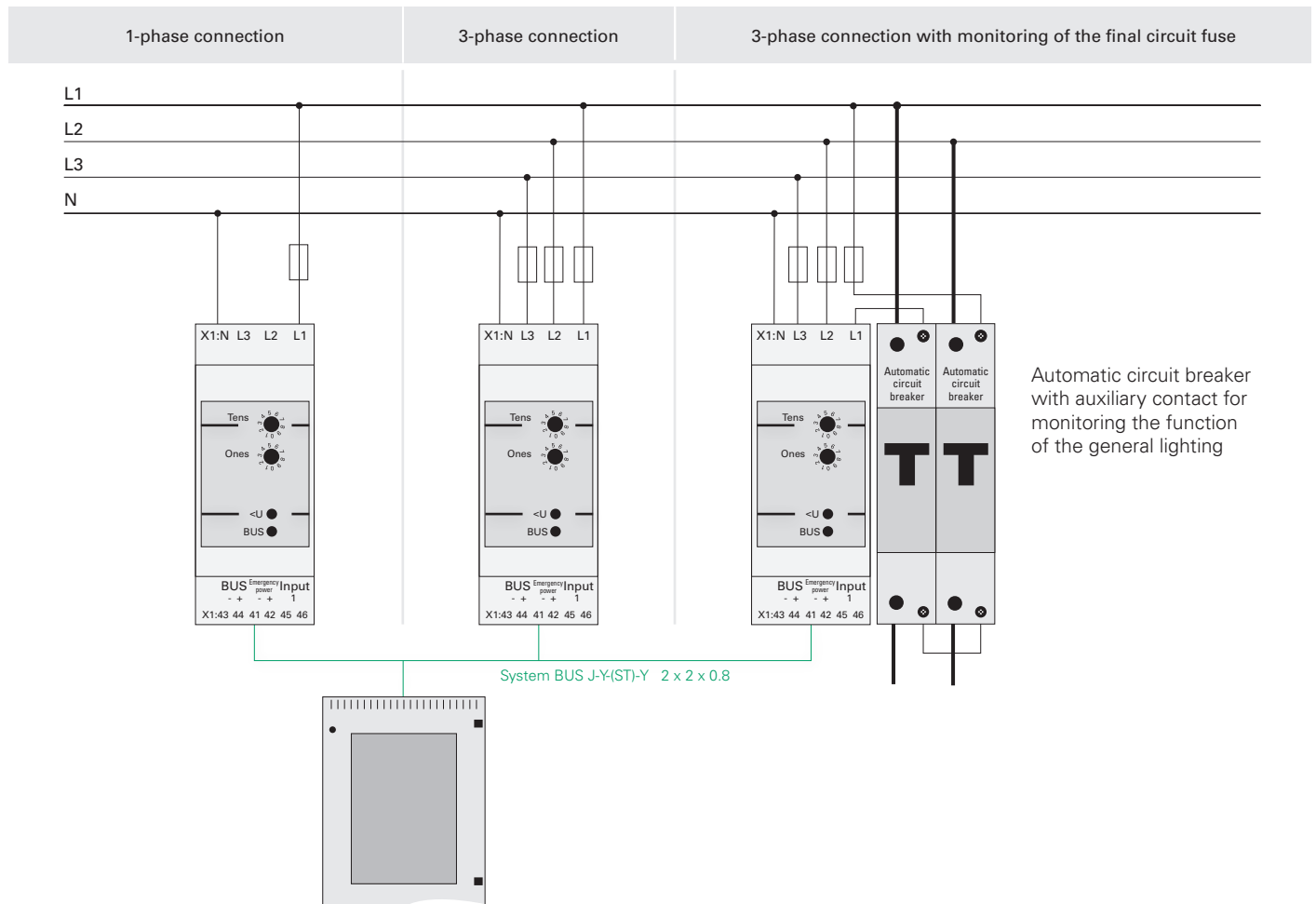
Each DNÜ-MB is connected to a Gessler LPS/CPS system via a BUS cable. A unique BUS address is assigned to each DNÜ-MB by means of a rotary coder. A location text can be assigned at any time (to enable accurately targeted correction of a local fault in the normal mains supply). As soon as one of the normal mains supply phases to be monitored falls below the nominal voltage by more than 15 %, the BUS phase monitor signals a local mains failure. The LPS/CPS system now switches on the emergency lighting off the area concerned and supplies the luminaires via the mains.



BUS PHASE MONITOR	DNÜ-MB
Enclosure material	Plastic
Nominal voltage	230V ± 10 %, 50/60 Hz/176-275 V DC
Power consumption	2 W
Backup fuse	max. 16 A
Address range	1 to 99
Hardwired switches	1 x 24 V via external voltage-free contacts
Display	LED status display
Class	I
System	MERLIN + QUATTRO



Top-hat rail mounting 2 HP



I-CONNECT16

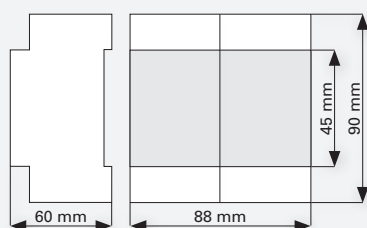
BUS phase monitor for SIBELON systems
for monitoring the normal mains supply



I-CONNECT 16 is a BUS phase monitor, which is used to monitor the normal mains supply.

Each I-CONNECT 16 communicates with the SIBELON system via the BUS cable. A unique BUS address is assigned to each I-CONNECT 16 in the factory. A location text can be assigned at any time (to enable accurately targeted correction of a local fault in the normal mains supply).

As soon as one of the normal mains supply phases to be monitored falls below the nominal voltage by more than 15 %, the BUS phase monitor signals a local mains failure. The LPS/CPS system now switches on the emergency lighting off the area concerned and supplies the luminaires via the mains.

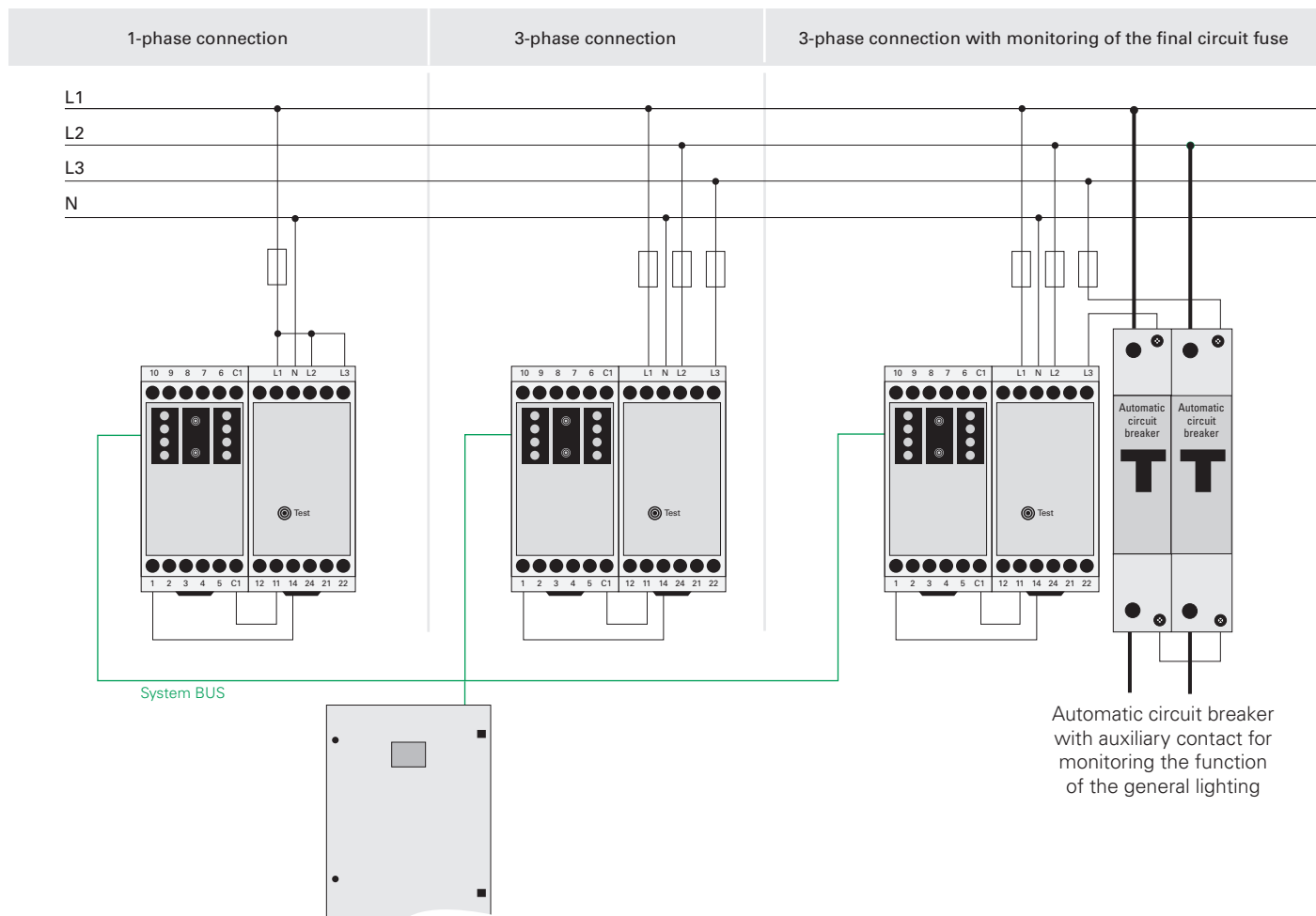


Top-hat rail mounting 4 HP

BUS PHASE MONITOR

I-CONNECT16

Enclosure material	Plastic
Nominal voltage	230V $\pm$ 10 %, 50/60 Hz / 176-275 V DC
Power consumption	2 W
Backup fuse	max. 16 A
Hardwired switches	1 x 24 V via external voltage-free contacts
Display	LED status display
Class	I
System	SIBELON



Higher-level visualisation of networked emergency lighting systems over the internet/intranet

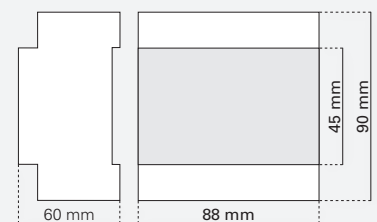
WEB-MASTER

Central visualisation via TCP-IP

The web-master manages and monitors up to 1,000 Gessler emergency lighting systems conveniently by means of central visualisation via TCP-IP. In case of a fault, if necessary, the integrated email client sends a status message. Use of the web-master only requires an up-to-date browser.



VISUALISATION	WEB-MASTER
Enclosure material	Plastic
Interface	Ethernet
Supply voltage	230 V AC/DC
Connected load (AC)	max. 20 VA
Degree of protection	IP20
Class	I
System	SIBELON + MERLIN + KV2000 + QUATTRO + NANO2 + EZ2 + POWERPACK



Top-hat rail mounting 5 HP

CENTRAL VISUALISATION

- Intuitive operation
- Live status request
- Start functional and duration test
- Read out/save test log
- Login with rights management
- Password protection



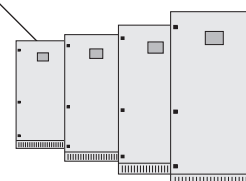
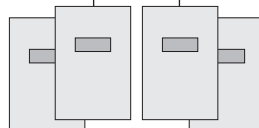
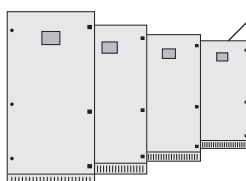
Internet/Intranet



Location: Frankfurt

Location: Mannheim

Location: Munich

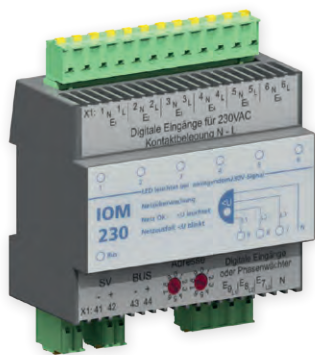


WEB-MASTER

- Manages up to 1,000 emergency lighting systems
- Integrated web server
- Integrated email client
- Grouping function (e.g. Plant I)

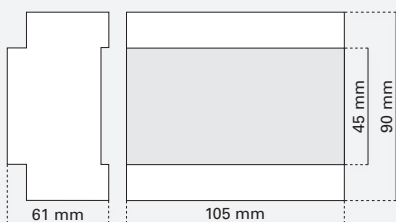
IOM230

Switch interrogation module 230 V with integrated BUS phase monitor for MERLIN systems



IOM230 is a switch interrogation module with integrated BUS phase monitor. The module can be optionally installed in the emergency lighting system cabinet or in the distribution of the general lighting. A unique BUS address is assigned to each module by means of a rotary coder. A location text can be assigned at any time (to enable accurately targeted correction of a local fault in the normal mains supply).

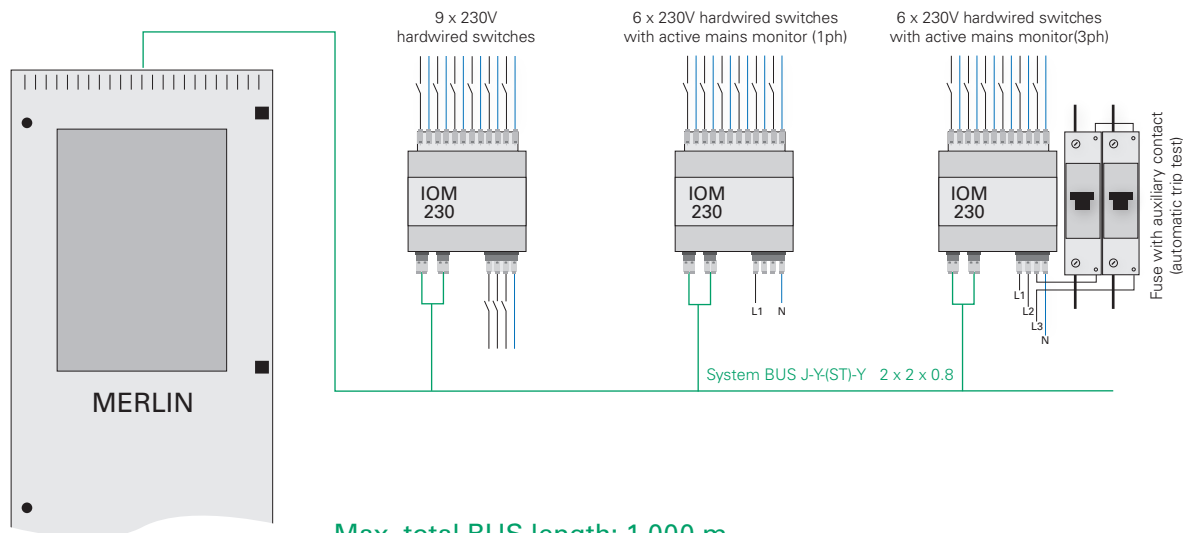
Depending on the programming of the IOM230, either 9 × 230 V hardwired switches or 6 × 230 V hardwired switches + one BUS phase monitor are available to you. The final circuits of your MERLIN system can be switched by means of the 230 V hardwired switches. The integrated BUS phase monitor reports a local mains failure as soon as at least one phase of the normal mains supply falls below the nominal voltage by more than 15 %. The LPS/CPS system now switches on the emergency lighting off the area concerned and supplies the luminaires via the mains.



Top-hat rail mounting 6 HP

SWITCH INTERROGATION MODULE	IOM230
ENCLOSURE MATERIAL	Plastic
HARDWIRED SWITCHES	9 x 230 V or 6 x 230 V + mains monitor
MAINS MONITOR	1 phase/3 phase
TERMINAL BLOCKS	up to 2.5 mm ²
System	MERLIN + KV2000

Remote installation in the subdistribution panel of the general lighting



Max. total BUS length: 1,000 m
Max. distance from BUS device to the CPS system: 400 m

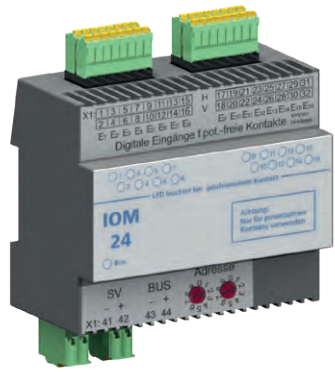
IOM24

Switch interrogation module 24V MERLIN systems

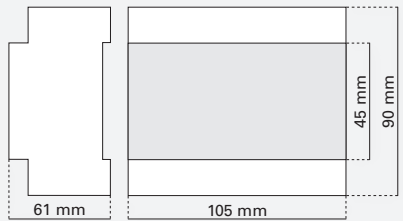
IOM24 is a switch interrogation module, which can be optionally installed in the emergency lighting system cabinet or in the distribution of the general lighting.

A unique BUS address is assigned to each module by means of a rotary coder. A location text can be assigned at any time.

IOM24 provides 16 voltage-free hardwired switches to switch the final circuits of your MERLIN system.

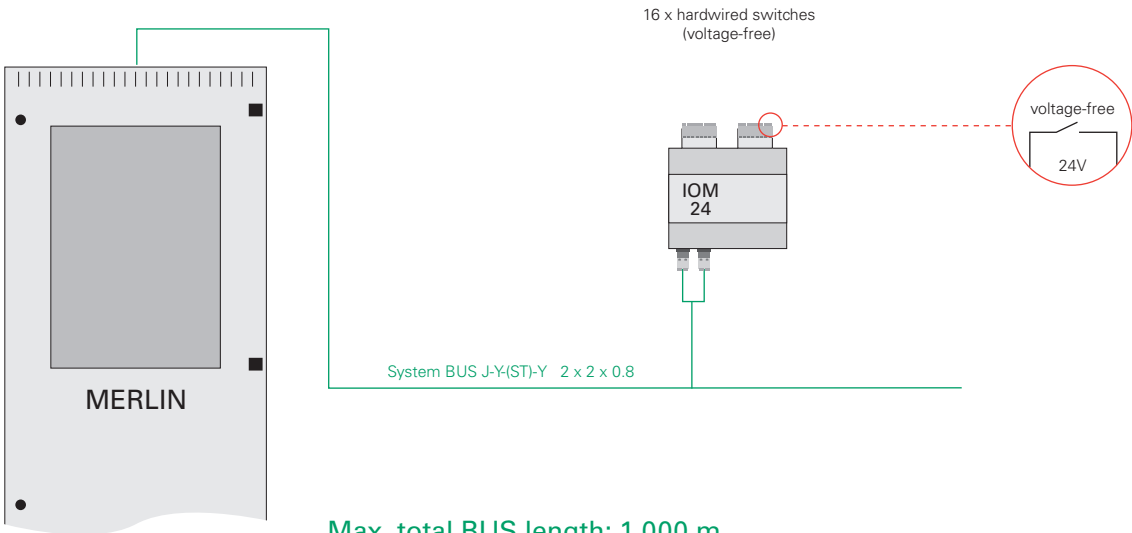


SWITCH INTERROGATION MODULE	IOM24
ENCLOSURE MATERIAL	Plastic
HARDWIRED SWITCHES	16 x 24 V via external voltage-free contacts
TERMINAL BLOCKS	up to 1.5 mm ²
System	MERLIN + KV2000



Top-hat rail mounting 6 HP

Remote installation in the subdistribution panel of the general lighting



Max. total BUS length: 1,000 m
Max. distance from BUS device to the CPS system: 400 m

RECESSED EMERGENCY LIGHTING ELEMENT

By using a Gessler ELE, standard commercial luminaires can be modified to self-contained emergency luminaires.

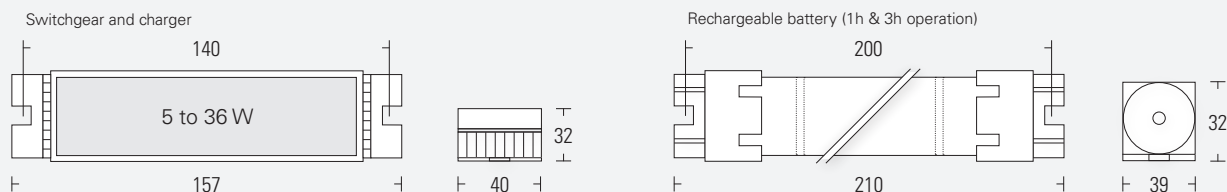


RECESSED EMERGENCY LIGHTING ELEMENT	ELE-V4	ELE-V5
NiCd rechargeable battery (1 h & 3 h)	3.6 V / 4 Ah	6 V/4 Ah
Power (AC)	5 – 36 W	18 – 58 W
Enclosure material	Plastic	
Plug-in terminals	up to 1.5 mm ²	
Voltage	230 V AC 50 Hz	
Lamp types	LL TC-SE TC-DEL	
Ambient temperature	+5 °C to +40 °C	
Suitable ballasts	Electronic ballast Low loss ballast Conventional ballast	
Version		
1h with auto-check BUS check	• •	• •
3h with auto-check BUS check	• •	• •

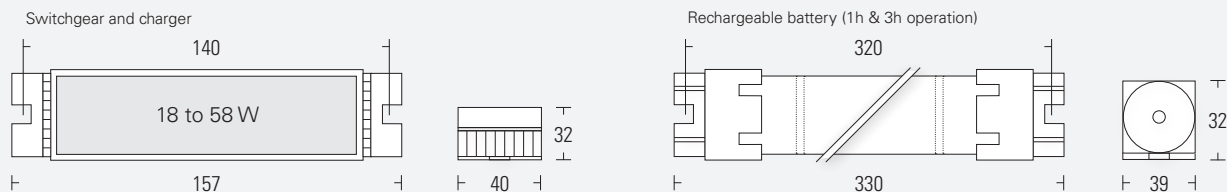
LUMINOUS FLUX TABLE

LAMP TYPE		ELE-V4		ELE-V5	
		1h	3h	1h	3h
6 (G5)	T5	25 %	15 %	–	–
8 (G5)	T5	23 %	14 %	–	–
13 (G5)	T5	17 %	11 %	–	–
18 (G13)	T8	14 %	8 %	28 %	12 %
36 (G13)	T8	9 %	5 %	22 %	10 %
58 (G13)	T8	8 %	–	15 %	7 %
20 (G10q)	T/R	9 %	5 %	22 %	8 %
22 (G10q)	T/R	–	–	–	–
32 (G10q)	T/R	9 %	6 %	20 %	8 %
40 (G10q)	T/R	9 %	–	22 %	10 %
10 (GR10q)	PLQ	24 %	15 %	–	–
16 (GR10q)	PLQ	19 %	13 %	–	–
28 (GR10q)	PLQ	12 %	8 %	29 %	13 %
38 (GR10q)	PLQ	9 %	–	19 %	8 %
10 (G24q)	TCD	20 %	13 %	–	–
13 (G24q)	TCD	21 %	14 %	–	–
18 (G24q)	TCD	15 %	9 %	36 %	17 %
26 (G24q)	TCD	11 %	8 %	26 %	13 %
10 (Gx24q)	T/E	20 %	13 %	–	–
13 (Gx24q)	T/E	21 %	13 %	–	–
18 (Gx24q)	T/E	15 %	9 %	36 %	17 %
28 (Gx24q)	T/E	–	–	23 %	13 %
32 (Gx24q)	T/E	10 %	–	21 %	12 %
42 (Gx24q)	T/E	10 %	–	22 %	–
5 (2G7)	PL	26 %	16 %	–	–
7 (2G7)	PL	23 %	16 %	–	–
9 (2G7)	PL	24 %	14 %	–	–
11 (2G7)	PL	24 %	14 %	–	–
18 (2G10)	TCF	12 %	7 %	25 %	10 %
24 (2G10)	TCF	10 %	7 %	21 %	10 %
36 (2G10)	TCF	9 %	6 %	20 %	9 %
18 (2G11)	PL	11 %	6 %	24 %	7 %
24 (2G11)	PL	10 %	6 %	27 %	11 %
36 (2G11)	PL	8 %	5 %	20 %	9 %
40 (2G11)	PL	9 %	–	21 %	12 %
55 (2G11)	PL	7 %	–	15 %	7 %
14 FHE (G5)	T5	19 %	12 %	42 %	19 %
21 FHE (G5)	T5	18 %	12 %	36 %	18 %
24 FHO (G5)	T5	11 %	9 %	26 %	11 %
28 FHE (G5)	T5	18 %	6 %	34 %	–
35 FHE (G5)	T5	–	–	30 %	–
39 FHO (G5)	T5	9 %	–	20 %	10 %
49 FHO (G5)	T5	10 %	–	21 %	–
54 FHO (G5)	T5	8 %	–	17 %	–

ELE-V4



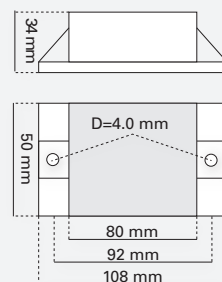
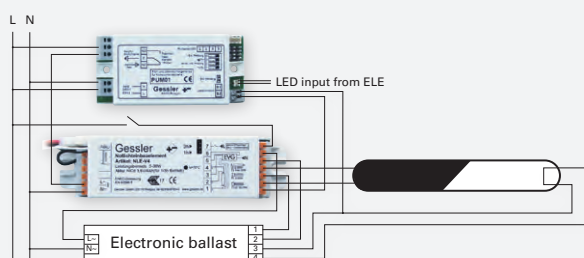
ELE-V5



OPTIONAL

SELF-MONITORED (+PUM01)

The PUM 01 performs the weekly functional test required by the VDE automatically.



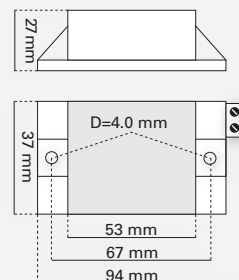
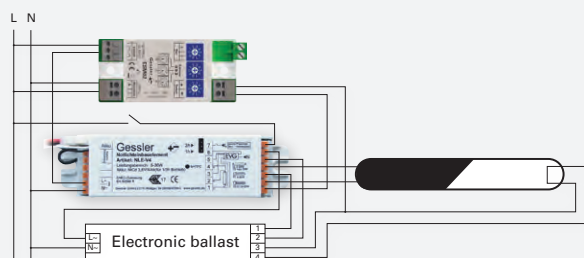
Error signals are indicated via a coloured LED.

- Normal mode
- Mains failure
- 2x ● Charging error
- 4x ● Lamp error
- 1x ● Test mode
- 1x ● Rechargeable battery voltage
- 3x ● Temperature error

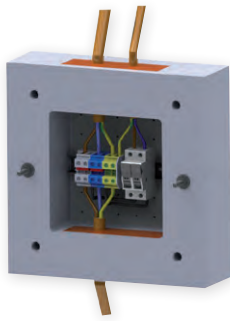
OPTIONAL

BUS MONITORED (+ESM02)

In the event of a malfunction, an error message is sent to the central BUS unit. The status of the built-in element is indicated at the central monitoring unit. In this way, the ELE can be monitored from a central position.



RISER JUNCTION BOX_{in E30}

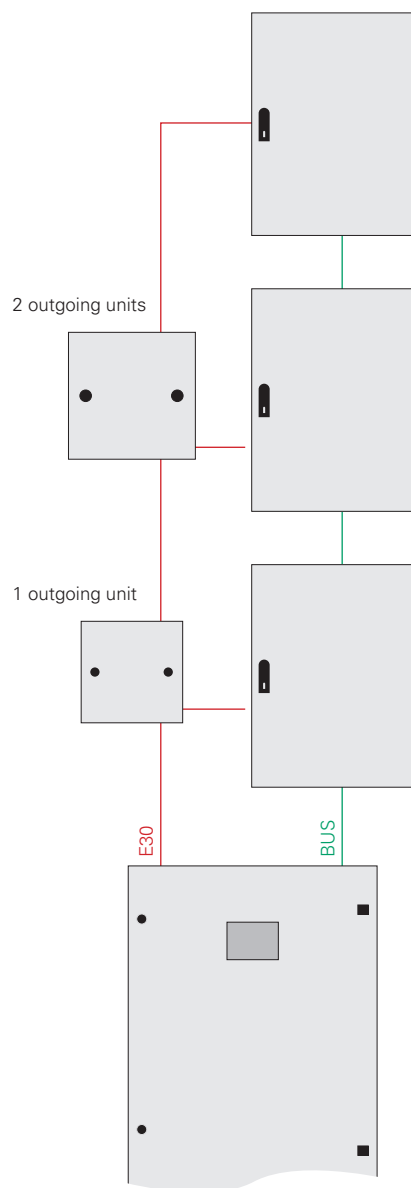


Whenever star-shaped installation of the supply cable between the CPS system and its substations is not possible or is uneconomical, a so-called riser installation can be selected.

To install this form of installation correctly according to the standards, the tapping of the supply cable (E30) must be protected with a backup fuse in a jumper ring with identical maintenance of integrity.

On the following pages you will find a selection of standard riser junction boxes in E30 and their versions.

WIRING EXAMPLE:



RISER JUNCTION BOX project planning

RISER DISTRIBUTION

Max. power of the riser [W]	Fusing in the central unit [A]	SVx.350.350.10x SVx.450.450.20x				SVx.350.350.11x SVx.450.450.21x			SVx.350.350.12x SVx.450.450.22x ATTENTION: Lay 5 x 50 mm²	
		4 mm²	6 mm²	10 mm²	16 mm²	25 mm²	35 mm²	50 mm²	70 mm²	95 mm²
20 % – ratio of hot to cold zone* max. E30 cable length [m]										
1000	16	59	89	148	237	370	518	740	1036	1406
2000	16	30	44	74	118	185	259	370	518	703
3000	25	20	30	49	79	123	173	247	345	469
4000	35	–	22	37	59	93	130	185	259	352
6000	50	–	–	25	39	62	86	123	173	234
8000	63	–	–	–	30	46	65	93	130	176
10000	80	–	–	–	–	37	52	74	104	141
12000	80	–	–	–	–	31	43	62	86	117
15000	100	–	–	–	–	25	35	49	69	94
17000	125	–	–	–	–	22	30	44	61	83
40 % – ratio of hot to cold zone* max. E30 cable length [m]										
1000	16	48	72	119	191	299	418	597	836	1135
2000	16	24	36	60	96	149	209	299	518	567
3000	25	16	24	40	64	100	139	199	345	378
4000	35	–	18	30	48	75	105	149	259	284
6000	50	–	–	20	32	50	70	100	173	189
8000	63	–	–	–	24	37	52	75	130	142
10000	80	–	–	–	–	30	42	60	104	113
12000	80	–	–	–	–	25	35	50	86	95
15000	100	–	–	–	–	20	28	40	69	76
17000	125	–	–	–	–	18	25	35	61	67
60 % – ratio of hot to cold zone* max. E30 cable length [m]										
1000	16	40	60	100	160	250	351	501	701	951
2000	16	20	30	50	80	125	175	250	351	476
3000	25	13	20	33	53	83	117	167	234	317
4000	35	–	15	25	40	63	88	125	175	238
6000	50	–	–	17	27	42	58	83	117	159
8000	63	–	–	–	20	31	44	63	88	119
10000	80	–	–	–	–	25	35	50	70	95
12000	80	–	–	–	–	21	29	42	58	79
15000	100	–	–	–	–	17	23	33	47	63
17000	125	–	–	–	–	15	21	29	41	56
Assumptions: AC/DC 1 conductor; cos(phi) = 0.9; 25° Celsius; voltage drop = 1.5 %; U = 216 V; type of laying = C; fuse load: 90%										

* The percentage of "hot to cold zone" is calculated from the ratio of the total length of the cable to the cable length that crosses the largest fire compartment/area subdivided in fire protection terms.

RISER JUNCTION BOX Built-in units

E30 STANDARD TYPES WITH ONE OUTGOING UNIT

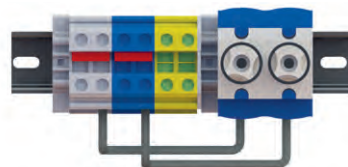
Type: SV3.350.350.100-00

Fuse element: max. 63 A (D02)

Riser: max. 3 x 16 mm²

Incoming and outgoing terminals: max. 3 x 16 mm²

Dimensions: 350 x 350 x 140 mm (H x W x D)



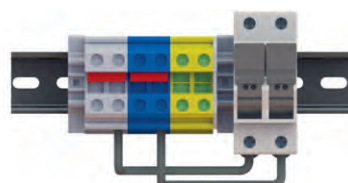
Type: SV3.350.350.101-00

Fuse element: max. 32 A (IEC 10 x 38)

Riser: max. 3 x 16 mm²

Incoming and outgoing terminals: max. 3 x 16 mm²

Dimensions: 350 x 350 x 140 mm (H x W x D)



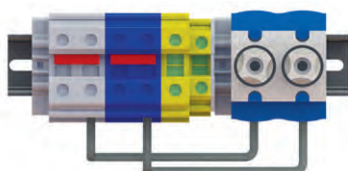
Type: SV3.350.350.110-00

Fuse element: max. 63 A (D02)

Riser: max. 3 x 50 mm²

Incoming and outgoing terminals: max. 3 x 16 mm²

Dimensions: 350 x 350 x 140 mm (H x W x D)



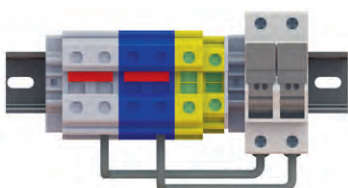
Type: SV3.350.350.111-00

Fuse element: max. 32 A (IEC 10 x 38)

Riser: max. 3 x 50 mm²

Incoming and outgoing terminals: max. 3 x 16 mm²

Dimensions: 350 x 350 x 140 mm (H x W x D)



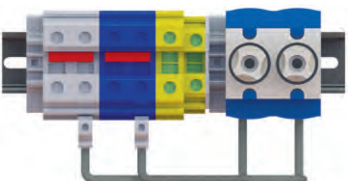
Type: SV3.350.350.120-00

Fuse element: max. 63 A (D02)

Riser: max. 5 x 50 mm²

Incoming and outgoing terminals: max. 3 x 16 mm²

Dimensions: 350 x 350 x 140 mm (H x W x D)



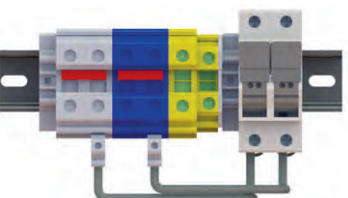
Type: SV3.350.350.121-00

Fuse element: max. 32 A (IEC 10 x 38)

Riser: max. 5 x 50 mm²

Incoming and outgoing terminals: max. 3 x 16 mm²

Dimensions: 350 x 350 x 140 mm (H x W x D)



E30 STANDARD TYPES WITH TWO OUTGOING UNITS

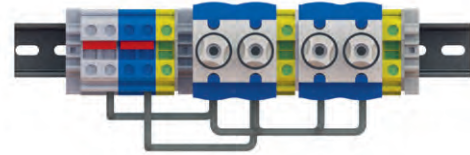
Type: SV3.450.450.200-00

Fuse element: max. 63 A (D02)

Riser: max. 3 x 16 mm²

Incoming and outgoing terminals: max. 3 x 16 mm²

Dimensions: 450 x 450 x 140 mm (H x W x D)



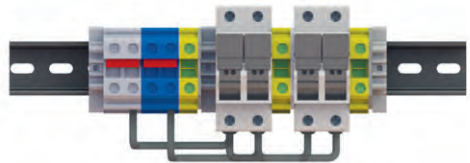
Type: SV3.450.450.201-00

Fuse element: max. 32 A (IEC 10 x 38)

Riser: max. 3 x 16 mm²

Incoming and outgoing terminals: max. 3 x 16 mm²

Dimensions: 450 x 450 x 140 mm (H x W x D)



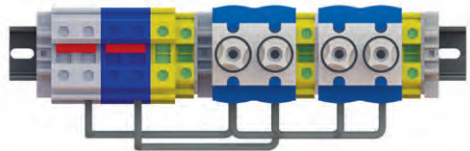
Type: SV3.450.450.210-00

Fuse element: max. 63 A (D02)

Riser: max. 3 x 50 mm²

Incoming and outgoing terminals: max. 3 x 16 mm²

Dimensions: 450 x 450 x 140 mm (H x W x D)



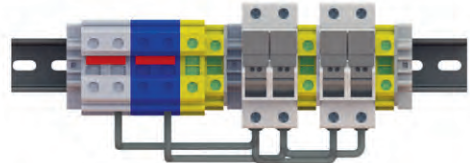
Type: SV3.450.450.211-00

Fuse element: max. 32 A (IEC 10 x 38)

Riser: max. 3 x 50 mm²

Incoming and outgoing terminals: max. 3 x 16 mm²

Dimensions: 450 x 450 x 140 mm (H x W x D)



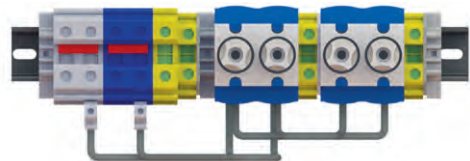
Type: SV3.450.450.220-00

Fuse element: max. 63 A (D02)

Riser: max. 5 x 50 mm²

Incoming and outgoing terminals: max. 3 x 16 mm²

Dimensions: 450 x 450 x 140 mm (H x W x D)



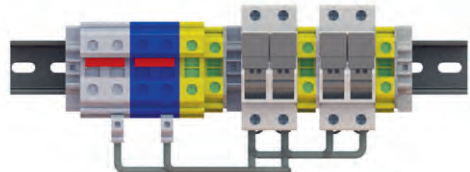
Type: SV3.450.450.221-00

Fuse element: max. 32 A (IEC 10 x 38)

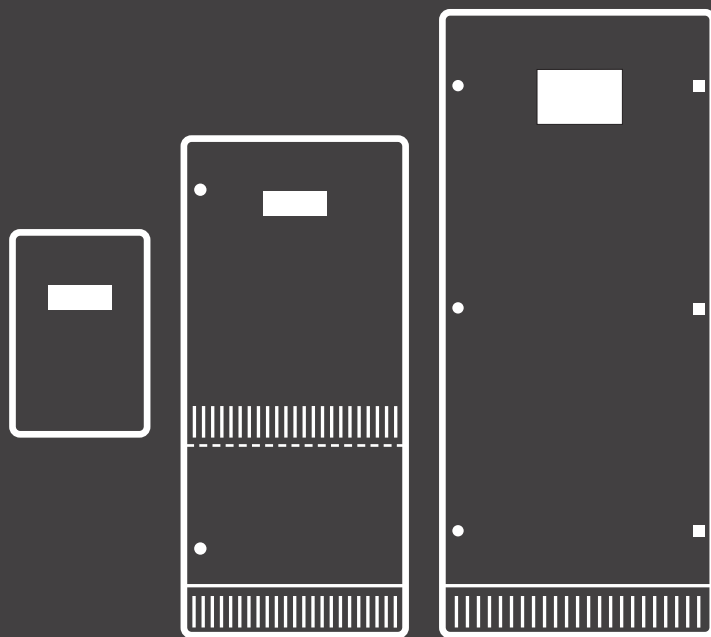
Riser: max. 5 x 50 mm²

Incoming and outgoing terminals: max. 3 x 16 mm²

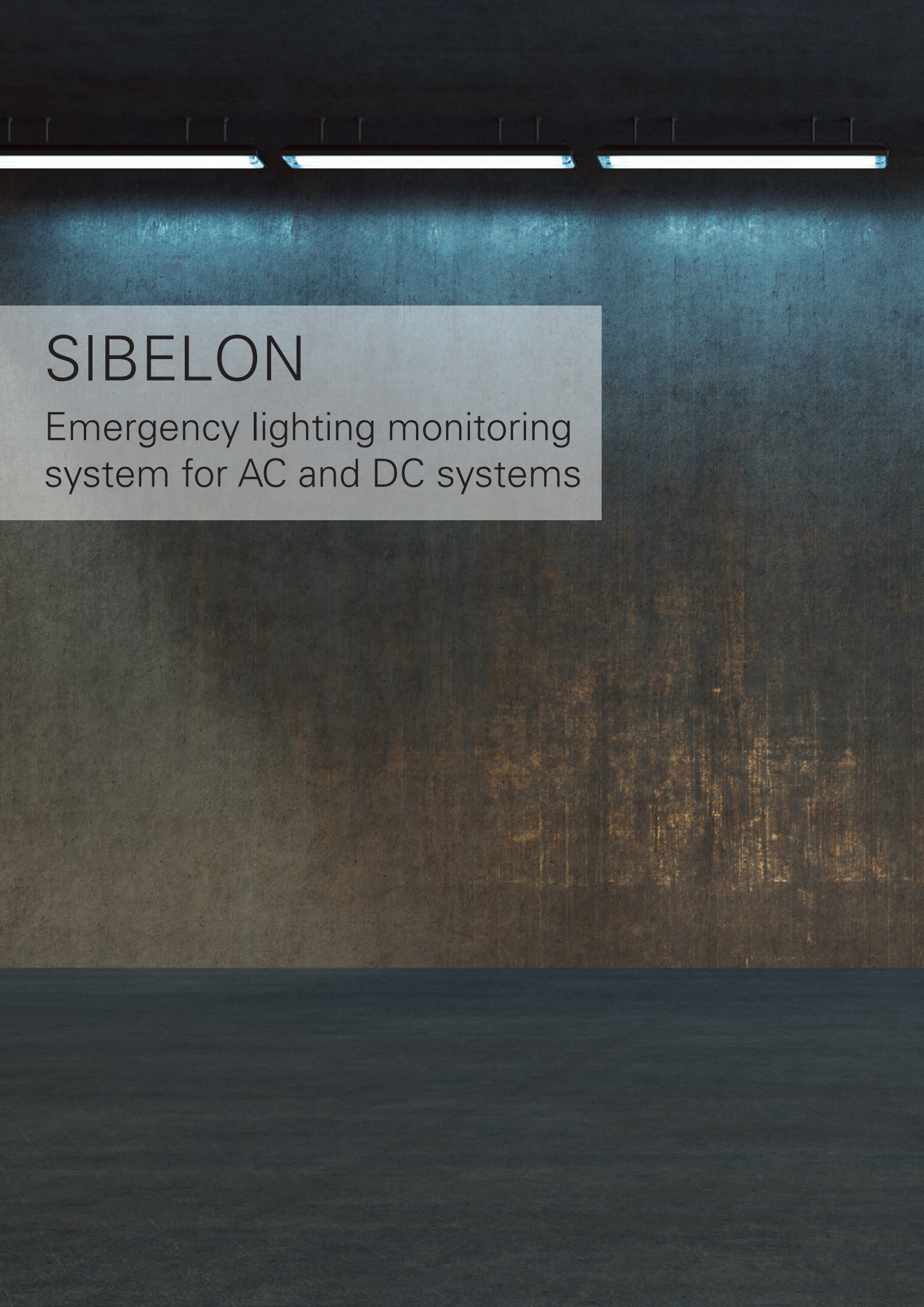
Dimensions: 450 x 450 x 140 mm (H x W x D)







EMERGENCY LIGHTING SYSTEMS



SIBELON

Emergency lighting monitoring
system for AC and DC systems



SIBELON CPS – The system

The SIBELON system is not a central battery system in the classic sense, it is far more than that. It is an emergency lighting system of the latest generation that, for example, does not set any restrictions for the choice of power source. SIBELON adapts to your requirements, and not vice versa.

The power source for safety purposes does not necessarily have to be a battery system, which supplies the loads in the event of a mains failure. This provision of the power can be provided alternatively by an emergency standby power unit. In short: SIBELON is suitable not only for AC but also for DC systems.

Further, within the system, you have the opportunity to combine the power sources. For example, central unit can be supplied from a battery system and the connected substations from an emergency standby power unit.

SIBELON is produced to the industrial standard. It has a processor core made by Wago with Modbus-IP, which enables open interfaces such as BACnet for the provision of system messages to the BCS. This interface flexibility makes the SIBELON system the first choice in large projects.

Another advantage is that only one supply cable from the central unit is required to supply SIBELON substations. This reduces the wiring required and the fire load by 50%.

The SIBELON address module required to monitor the connected luminaires is not only suitable for AC systems but also for DC systems.

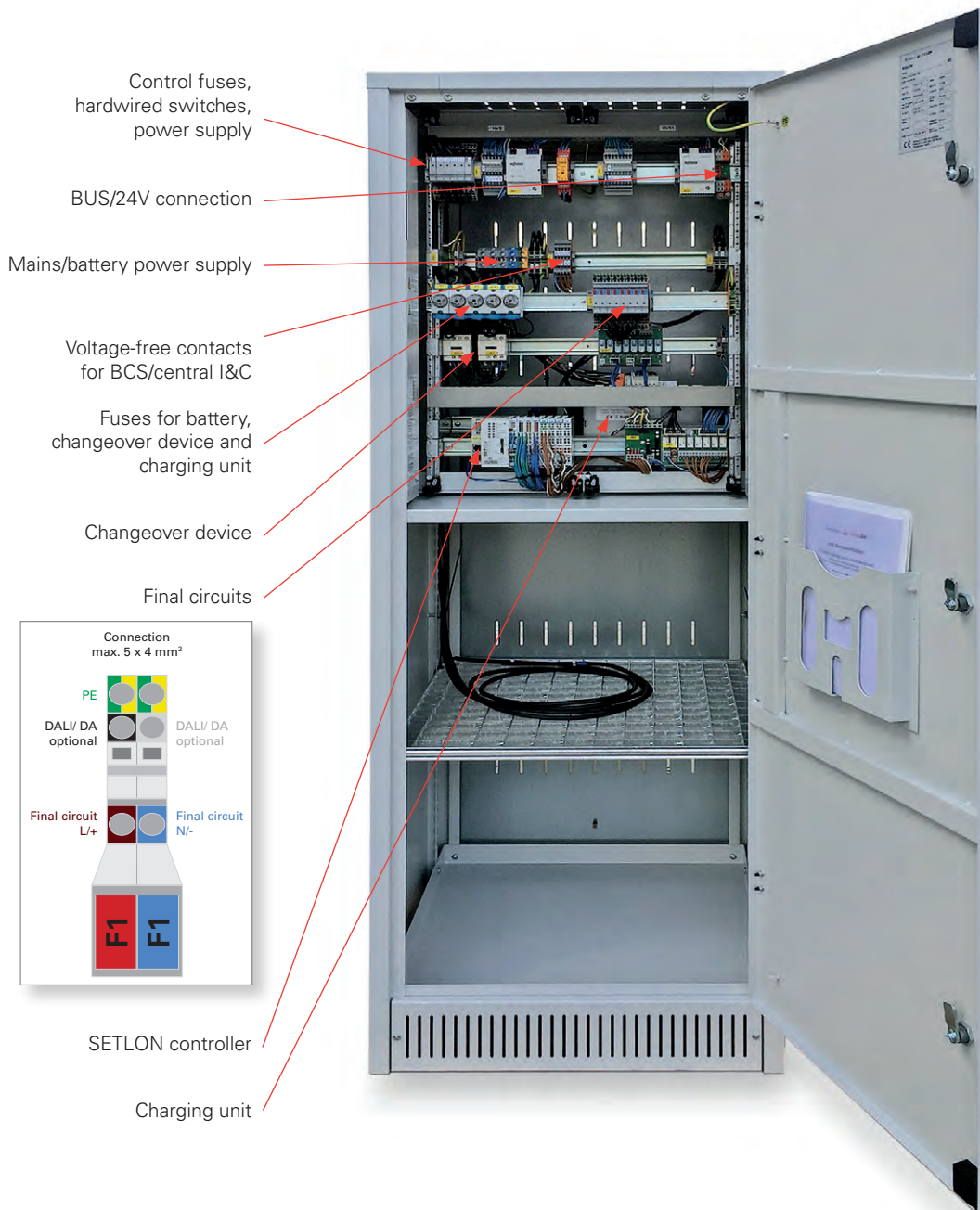
All final circuits are pre-equipped for mixed technology (escape route and emergency luminaires in one circuit) and can be loaded by up to max. 815 VA. Communication with the luminaires takes place on the supply line (without additional BUS cable). Each address can be assigned a clear, unique location text to enable a luminaire to be localised quickly and conveniently in case of a fault.

Due to the many advantages compared to a pure CPS system, we have given SIBELON a new system description:

Emergency lighting monitoring system for AC and DC systems

The SIBELON system is naturally produced in accordance with the respective current legal standards. TÜV Rheinland has checked and certified the system in accordance with EN 50171. This confirms use of the system for emergency lighting in accordance with DIN VDE V 0108-100-1.

We have summarised the large number of different SIBELON system options for you on the following catalogue pages.



TECHNICAL DATA

- Max. power: 150 kVA,
Output voltage: 230 V AC/DC
- Standard single luminaire monitoring using
address modules
- Freely programmable final circuits for main-
tained and non-maintained light and mixed
technology
- Microprocessor-controlled functional and
duration test
- 7" touchscreen operation
- Ethernet connection for web browser visualisation
- Autom. test equipment with logging/recording of
results
- LON system BUS
- One system for AC and DC systems
- Optional: Higher-level visualisation via WEB-
MASTER
- Optional: DALI system technology for DALI
luminaires

SIBELON CPS

SYSTEM DESCRIPTION

Central battery systems use a battery system as a standby electricity source, to supply the connected loads in emergency mode. This SIBELON system option is named **SIBELON CPS**.

How it works

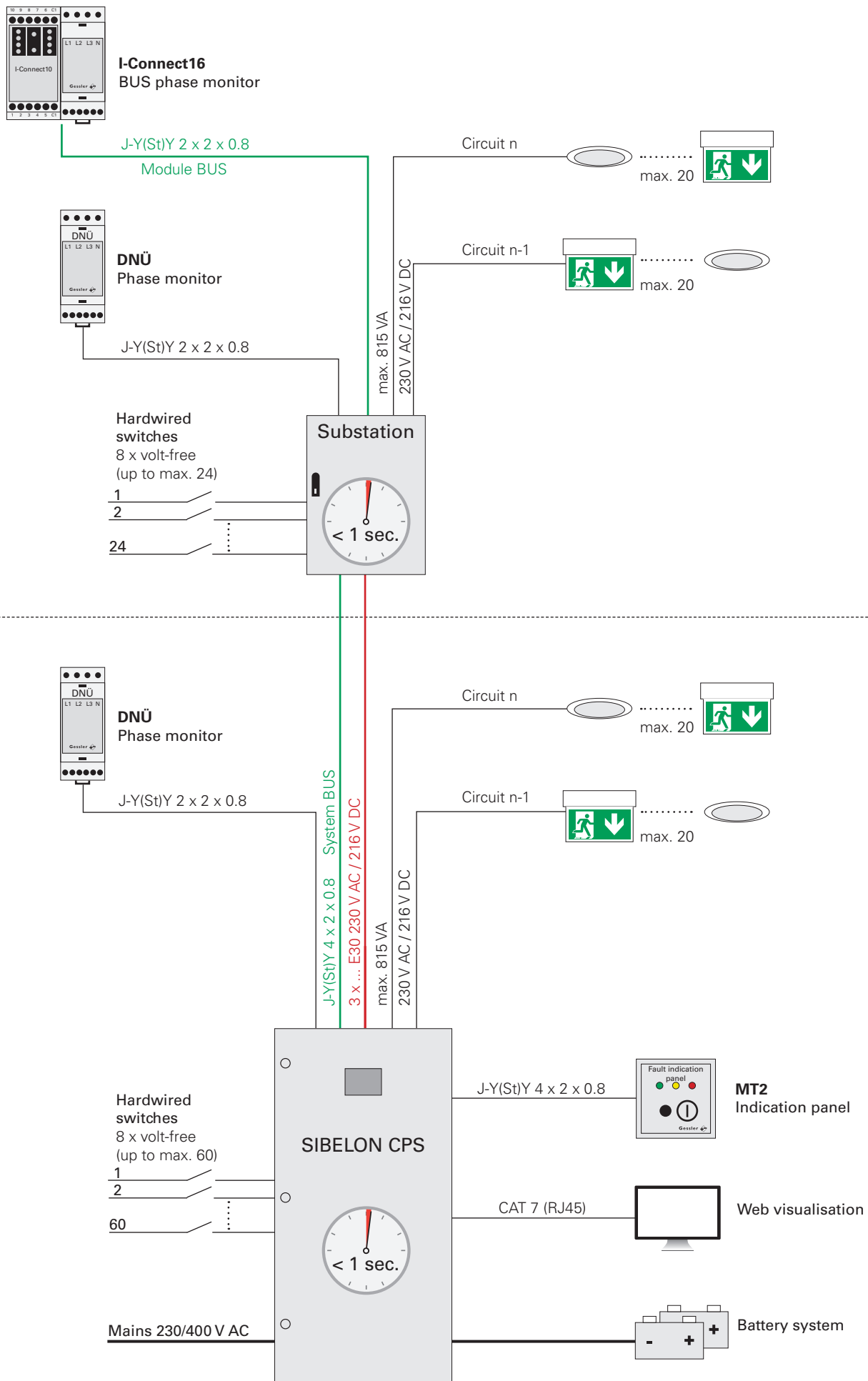
If a mains voltage is applied the loads are supplied from the mains and the battery system is charged. By monitoring the general lighting, it is ensured that in the event of a failure, the emergency lighting is switched on for the area concerned. In the event of failure or a fall in the mains voltage by more than 15%, the system switches to battery mode (DC mode). As a result, the connected escape route and emergency luminaires are switched on automatically.

As soon as a returning mains voltage is detected, SIBELON CPS switches to normal mode and again charges the battery system.

The luminaire test required by the standards is performed by the SIBELON CPS automatically and it records the result in the standard, integrated test log of the control unit.

REFERENCE: "Franz Josef Strauß" airport – Munich





SIBELON CPS/ESPS

SYSTEM DESCRIPTION

If the central battery system uses a battery system as a standby electricity source, however, other system-oriented emergency lighting substations are supplied via ESPS (AC), the system is a **SIBELON CPS/ESPS** system. This option is only used if the transfer time requirements differ due to the use of the building (example: meeting places and workplaces).

How it works

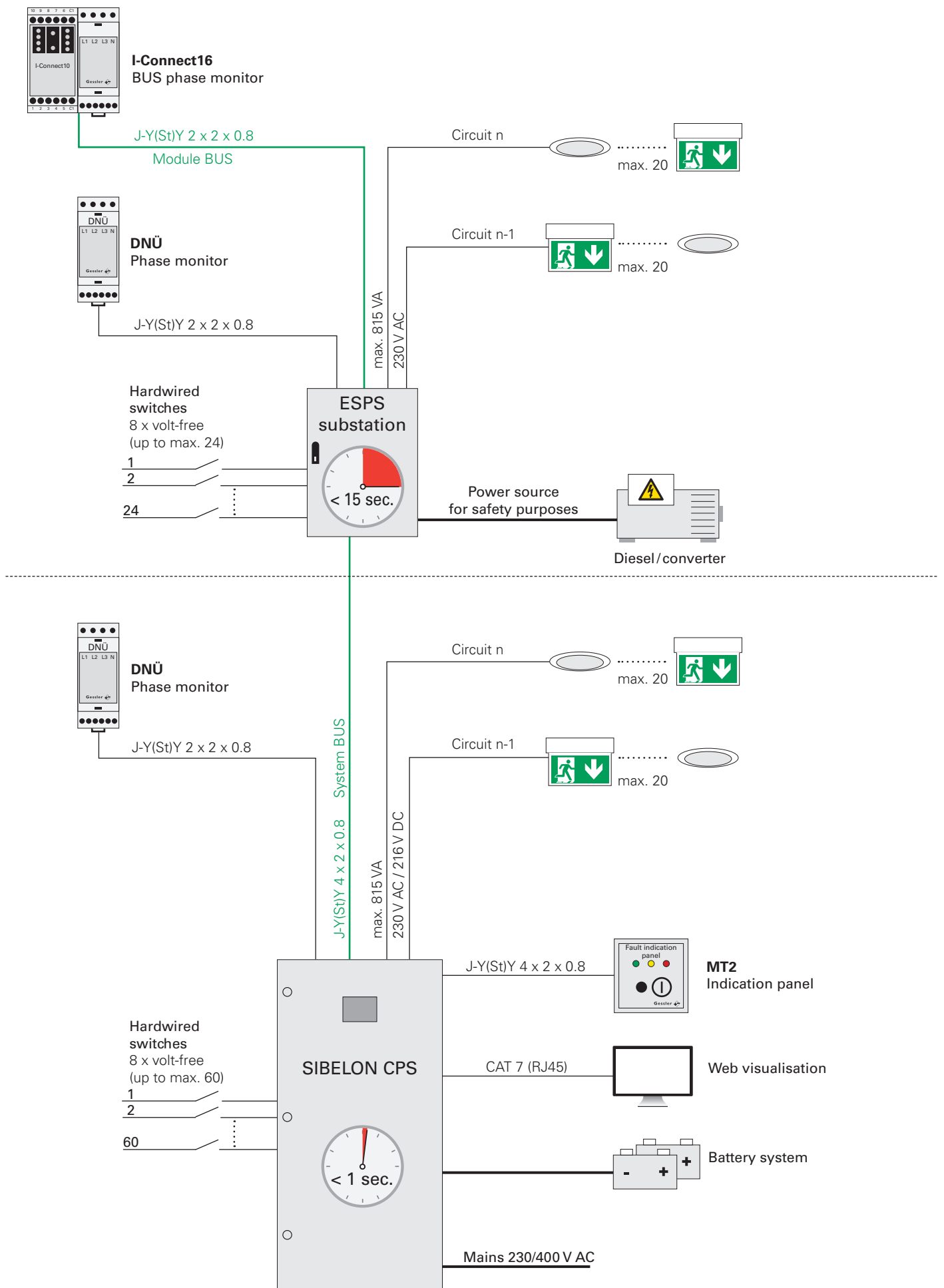
If a mains voltage is applied the loads are supplied from the mains and the battery system is charged. By monitoring the general lighting, it is ensured that in the event of a failure, the emergency lighting is switched on for the area concerned. In the event of failure or a fall in the mains voltage by more than 15 %, the central unit switches to battery mode (transfer time < 1 second). The loads of the ESPS substation are not supplied with AC voltage until the emergency standby power unit has switched on (transfer time < 15 seconds).

When the mains returns, the substation and the central unit switch back to normal mode automatically. The latter once again charges the previously discharged battery system. The luminaire test required by the standards is performed by the SIBELON CPS automatically and it records the result in the standard, integrated test log of the control unit.

Special feature: Identical address module for single luminaire monitoring, not only in AC systems but also in DC systems. There is no need for a BUS cable to the luminaires. Communication takes place via the supply cable.

REFERENCE: The Squaire – Frankfurt am Main





SIBELON ESPS

SYSTEM DESCRIPTION

System solutions in which emergency standby power units are used as the only standby electricity source, are always implemented if use of the building allows a transfer time of < 15 seconds (example: workplace).

This system option is named **SIBELON-ESPS**.

The central ESPS control serves as higher-level test equipment, which communicates with the autonomous ESPS substations via a BUS cable.

How it works

If a mains voltage is applied, all loads are supplied from the mains.

By monitoring the general lighting, it is ensured that in the event of a failure, the emergency lighting is switched on for the area concerned.

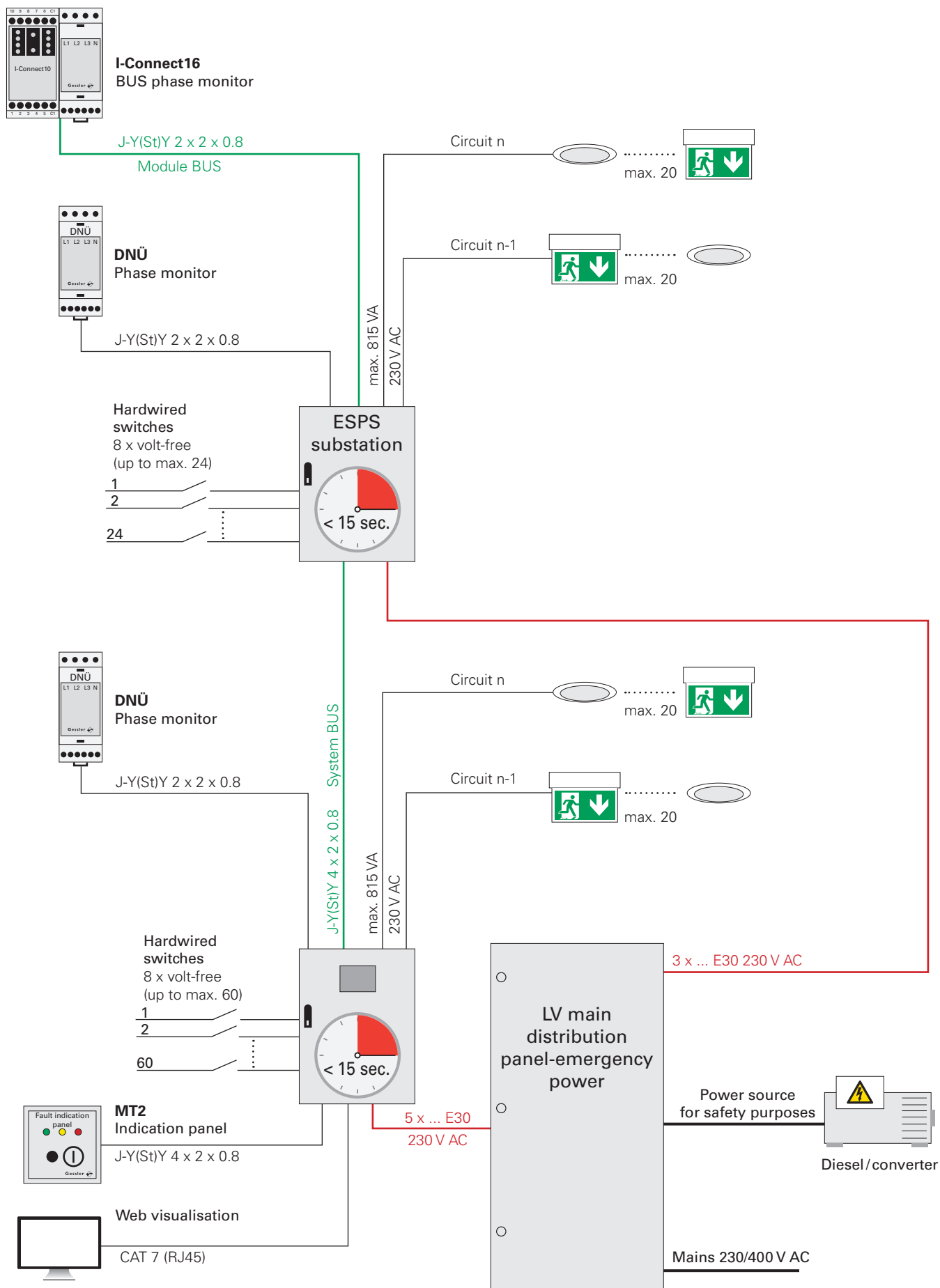
In the event of a failure or drop in mains voltage by more than 15%, the central ESPS unit and the ESPS substations switch on the exit sign and emergency luminaires automatically. In the event of a total mains failure, these loads are supplied via the now applied standby system. Return of the mains is detected by means of the mains monitor.

The luminaire test required by the standards is performed by the SIBELON ESPS automatically and it records the result in the standard, integrated test log of the control unit.

Special feature: There is no need for a BUS cable to the luminaires. Communication takes place via the supply cable.

REFERENCE: Klinikum am Gesundbrunnen – Heilbronn





SIBELON DALI

SYSTEM DESCRIPTION

A DALI light control in the general lighting is the standard in many projects. Why can't these DALI luminaires be part of the emergency lighting? We have found the right answer to this question: **SIBELON DALI**.

Gessler DALI exit sign luminaires are monitored together with DALI general lighting luminaires on site and, in emergency mode, they are supplied and controlled via the central battery system. The latter do not require an additional address module in the luminaires.

How it works

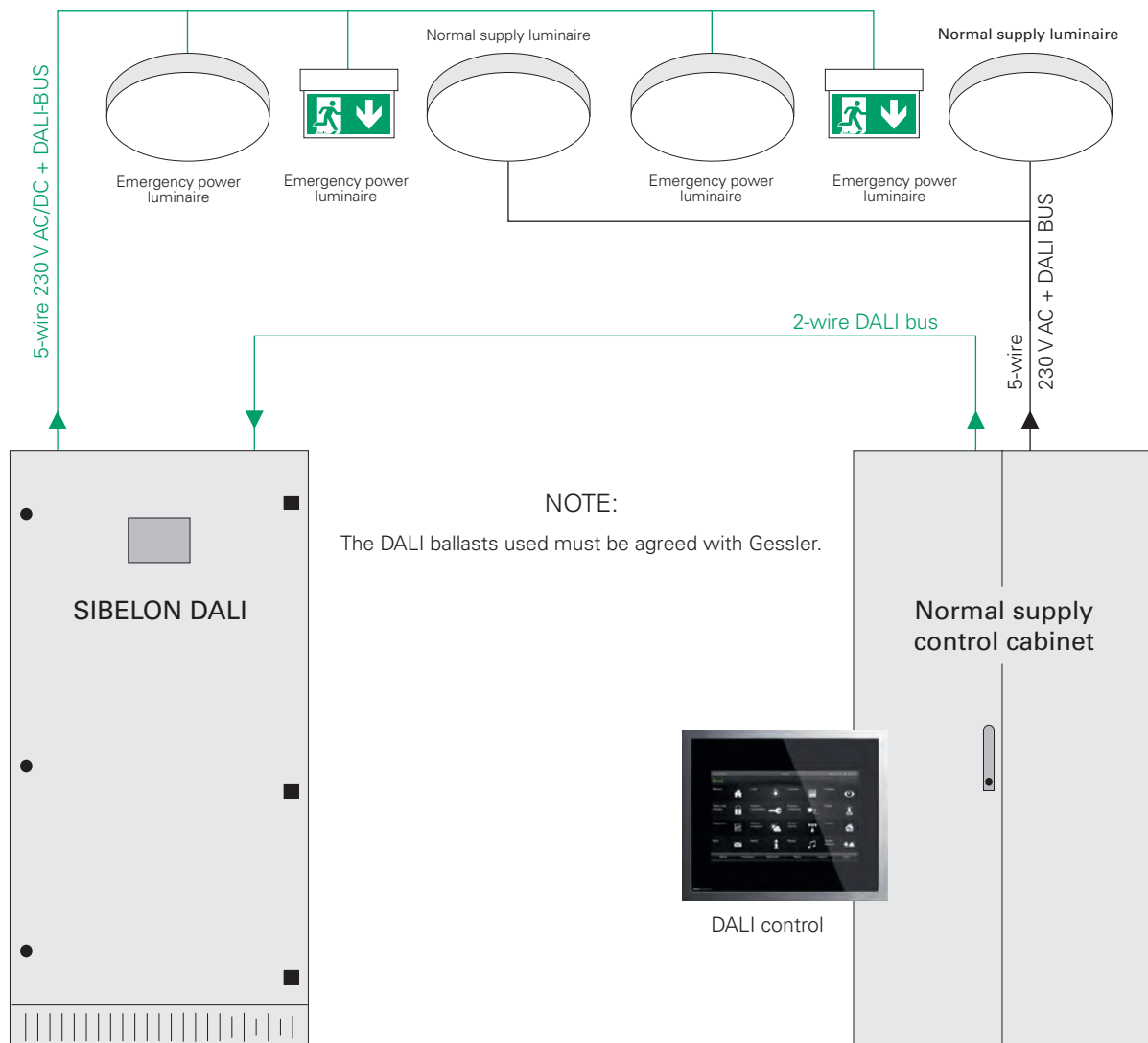
In normal mode, SIBELON DALI passes on the DALI signal of the general control directly to the connected DALI loads. The DALI luminaires additionally used as emergency luminaires can be controlled together with the DALI general lighting without limitation and without time delay. In the event of failure or a fall in the mains voltage by more than 15 %, the system switches to battery mode (DC mode) or emergency standby power mode (ESPS mode). The SIBELON DALI now controls the connected DALI exit sign and emergency luminaires, which control a pre-programmed emergency lighting level.

As soon as a returning mains voltage is detected, SIBELON-DALI switches to normal mode (all luminaires are again controlled via normal supply DALI) and charges the previously discharged battery system. After the mains returns, all DALI luminaires provided with emergency supply require an updated setpoint for the normal supply DALI control. This updated setpoint is also required after each weekly luminaire test. To this end, the central SIBELON DALI unit provides a voltage-free "Test/emergency mode" contact. The luminaire test required by the standards is performed by the SIBELON DALI automatically and it records the result in the standard, integrated test log of the control unit.

REFERENCE: European Central Bank – Frankfurt am Main



DALI BUS TOPOLOGY



NORMAL OPERATION

The DALI BUS is tunnelled via SIBELON DALI to the exit sign and emergency luminaires. The standard DALI functionalities are therefore maintained.

NORMAL OPERATION

In emergency mode, SIBELON DALI disconnects the DALI BUS and controls the Gessler DALI exit sign and emergency luminaires.

The SIBELON system is accessed via the user-friendly 7" touchscreen control unit, the I-VIEW. The graphic menu navigation for operating and programming the system is intuitive and is set up to be self-explanatory. The standard IP connection provided enables the control unit display to be transferred by means of a standard web browser on any computer with authorised access.

The following settings, fault messages and system data can be called up and changed directly at the I-VIEW or securely via the IT interface:

- Visual display of all system information
- Display of each circuit with details of the configuration
- Display of defective luminaires
- Continuous compilation and saving of the test log
- Display and printout of the test log
- Programming of the destination location for each luminaire
- Fault indication with detailed fault information
- System overview with free naming for all subdistribution panels and circuits (installation site)
- Remote control of the system (ON/OFF, maintained luminaires ON/OFF, test initiation, circuit calibration)
- Integrated service module for programming the system and outgoing circuits

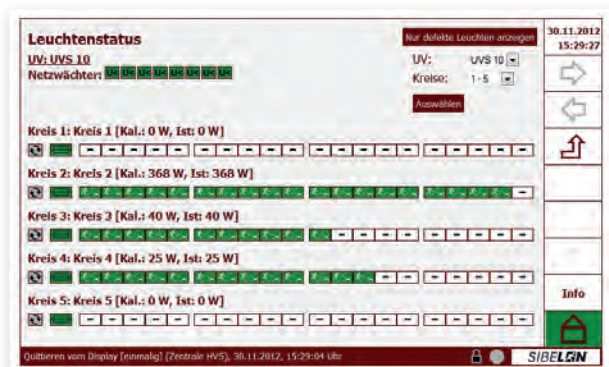
DISPLAYS



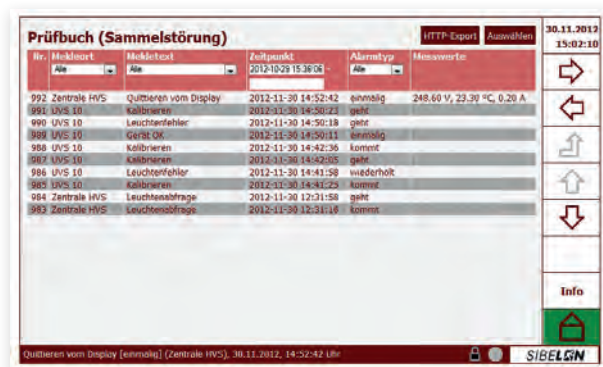
Start page, system overview



Overview of the connected substations



Overview of luminaire status



Test log display, collective faults

Higher-level visualisation of networked emergency lighting systems over the internet/intranet

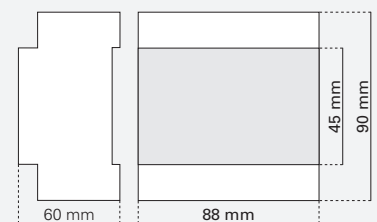
WEB-MASTER

Central visualisation via TCP-IP

The web-master manages and monitors up to 1,000 Gessler emergency lighting systems conveniently by means of central visualisation via TCP-IP. In case of a fault, if necessary, the integrated email client sends a status message. Use of the web-master only requires an up-to-date browser.



VISUALISATION	WEB-MASTER
Enclosure material	Plastic
Interface	Ethernet
Supply voltage	230 V AC/DC
Connected load (AC)	max. 20 VA
Degree of protection	IP20
Class	I
System	SIBELON + MERLIN + KV2000 + QUATTRO + NANO2 + EZ2 + POWERPACK



Top-hat rail mounting 5 HP

CENTRAL VISUALISATION

- Intuitive operation
- Live status request
- Start functional and duration test
- Read out/save test log
- Login with rights management
- Password protection



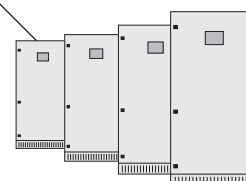
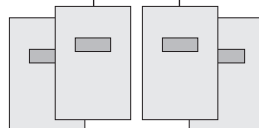
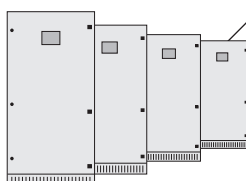
Internet/Intranet



Location: Frankfurt

Location: Mannheim

Location: Munich

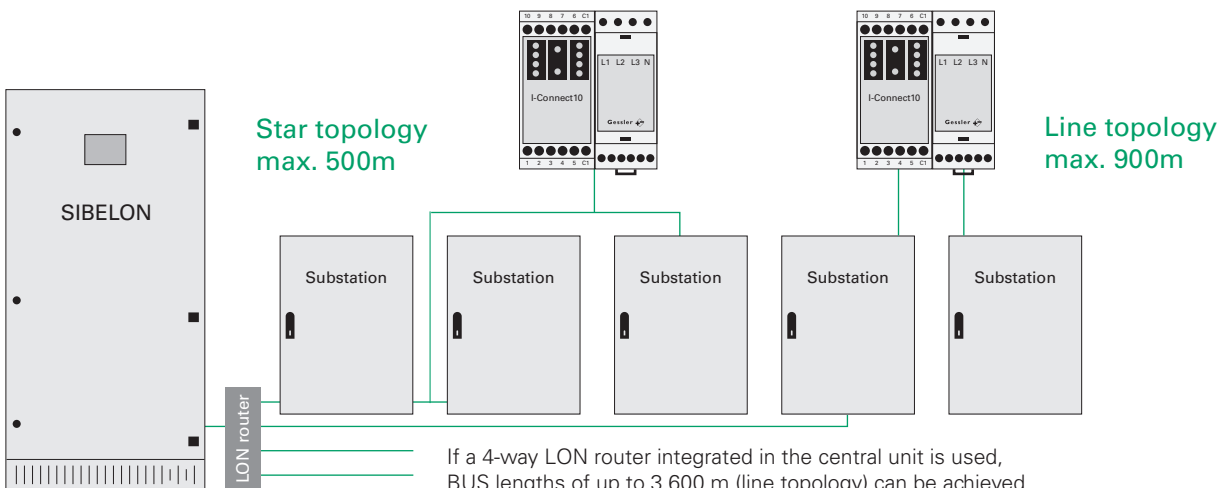
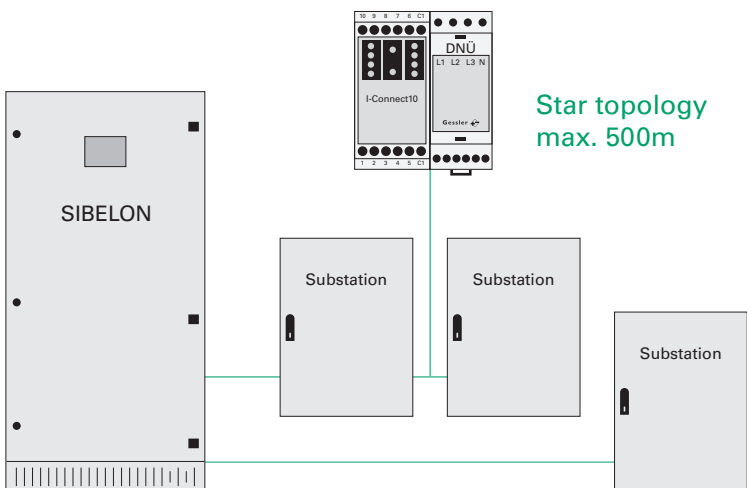
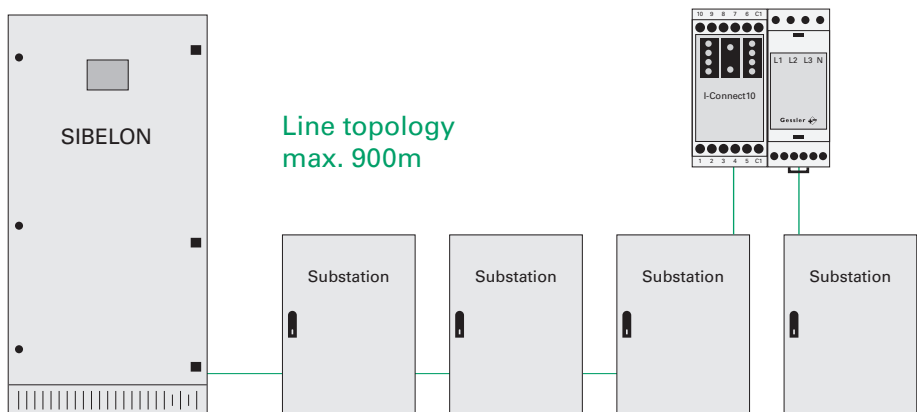


WEB-MASTER

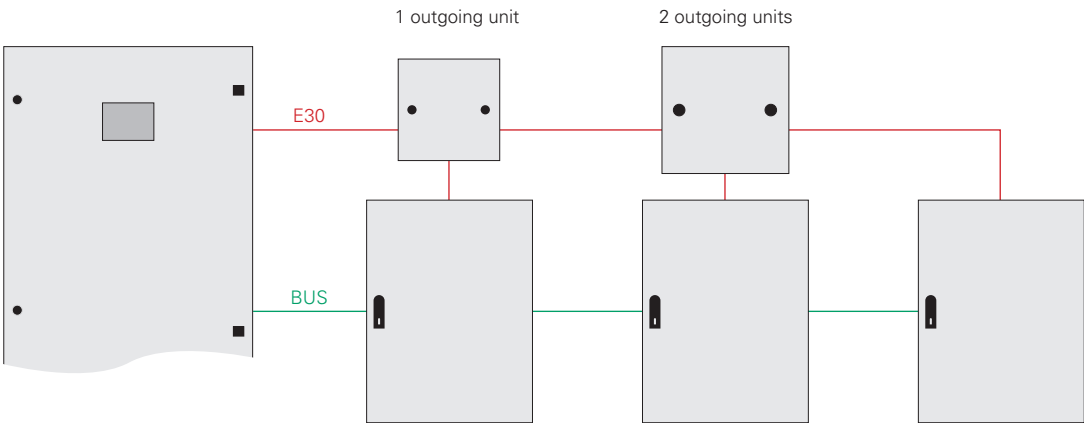
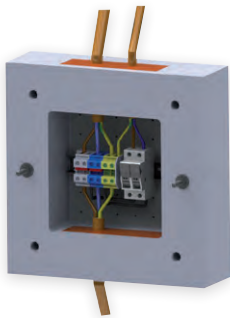
- Manages up to 1,000 emergency lighting systems
- Integrated web server
- Integrated email client
- Grouping function (e.g. Plant I)

BUS CABLE LENGTHS

SIBELON

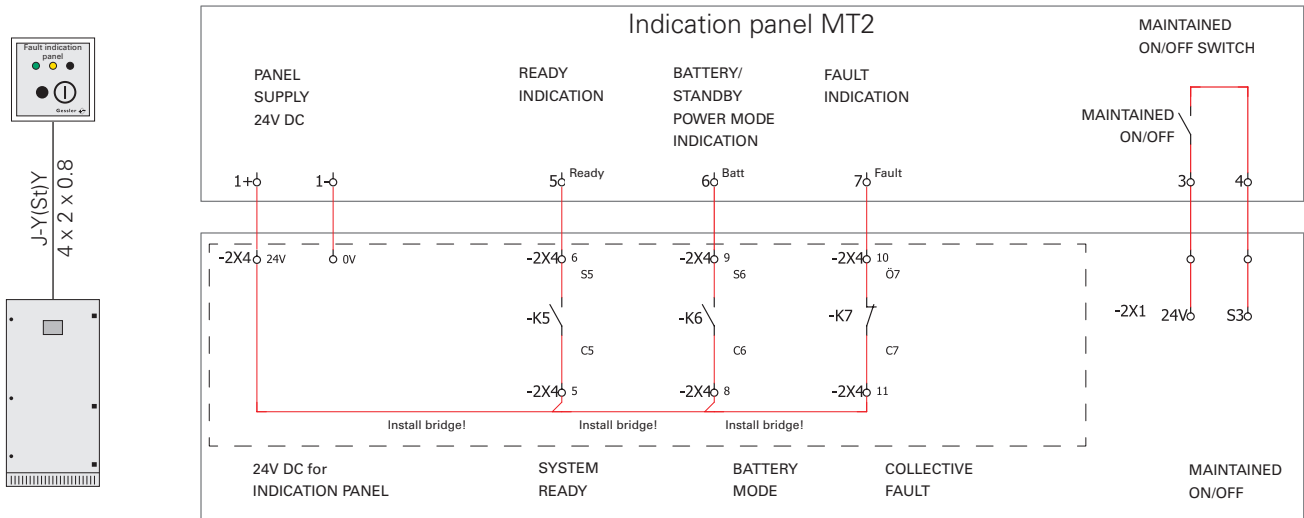


RISER JUNCTION BOX in E30



INDICATION PANEL MT2

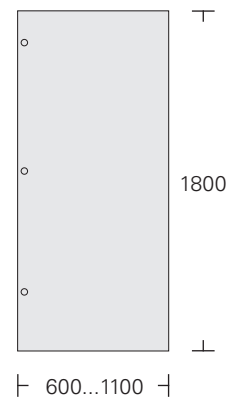
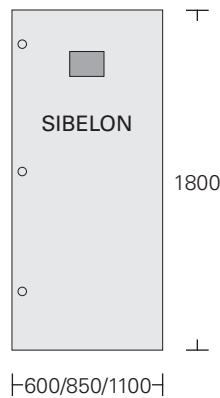
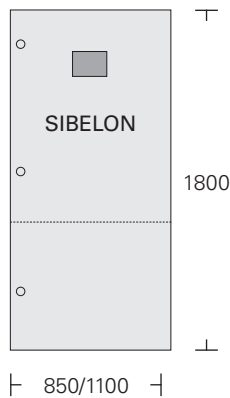
CONNECTION PLAN FOR SIBELON



DIMENSIONS

SIBELON main devices and substations

MAIN DEVICES



TECHNICAL DATA – COMBINED CABINET

Dimensions H x W x D [mm]	max. circuits (2-pole)
1800 x 850 x 600	40
1800 x 1100 x 600	60

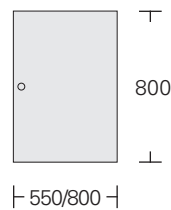
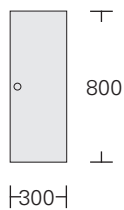
TECHNICAL DATA – EQUIPMENT CABINET

Dimensions H x W x D [mm]	max. outgoing units (2-pole)
1800 x 600 x 600	40
1800 x 850 x 600	60
1800 x 1100 x 600	80

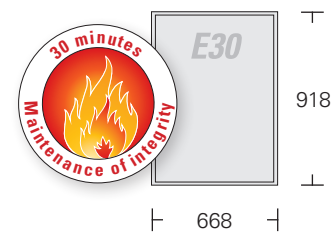
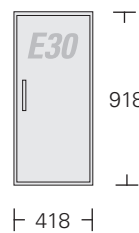
TECHNICAL DATA – BATTERY CABINET

Dimensions H x W x D [mm]
1800 x 600 x 600
1800 x 850 x 600
1800 x 950 x 600
1800 x 1100 x 600

SHEET STEEL SUBSTATIONS (E0)



SUBSTATIONS IN MAINTENANCE OF INTEGRITY (E30*)



TECHNICAL DATA – SUBSTATIONS in E0

Dimensions H x W x D [mm]	max. circuits (2-pole)	Version
800 x 300 x 161	20	Wall-mounted cabinet
800 x 550 x 161	40	Wall-mounted cabinet
800 x 800 x 161	60	Wall-mounted cabinet

Colour: RAL 9010

Degree of protection: IP44

TECHNICAL DATA – SUBSTATIONS in MAINTENANCE OF INTEGRITY

Dimensions H x W x D [mm]	max. circuits (2-pole)	Version
918 x 418 x 396	20	Wall-mounted cabinet
918 x 668 x 396	40	Wall-mounted cabinet
on request	60	Wall-mounted cabinet

Colour: RAL 7035

Degree of protection: IP42

* According to MLAR 11/2005 (Section 5.2.2), a "verification of function in case of fire" must exist. The verification for the maintenance of integrity (fire resistance) of the electrical installations is provided by a type test in combination with an approved empty enclosure.

ASSEMBLIES | MODULES SIBELON

The following assemblies and modules are compatible with SIBELON:



LB1/009

Address module for
SIBELON systems



DNÜ

Phase monitor



LB1/009DD

Address module with
DALI disconnection for
SIBELON systems



I-CONNECT 16

BUS phase monitor for
SIBELON systems



MT2

Indication panel



WEB-MASTER

High-level visualisation



MERLIN

CPS system



MERLIN CPS – The system

In the event of a mains failure, the MERLIN CPS system supplies the connected exit sign and emergency luminaires via a battery system.

All final circuits are pre-equipped for mixed technology (escape route and emergency luminaires in one circuit) and can be loaded up to max. 650 VA. Communication with the luminaires takes place on the supply line (without additional BUS cable). Each address can be assigned a clear, unique location text to enable a luminaire to be localised quickly and conveniently in case of a fault.

The monitoring of the general lighting can be ensured by means of MERLIN BUS mains monitors.

In the event of a failure, the emergency lighting for the area concerned is switched on automatically. Each BUS mains monitor can be assigned a unique location test, so that the local normal supply fault can be corrected in a targeted way.

Another advantage is that only one supply cable from the central unit is required to supply MERLIN substations. This reduces the wiring required and the fire load by 50%.

The universal MERLIN charging unit allows all standard battery types as the standby electricity source, such as OGIv battery (sealed lead grid plates), OPsV battery (sealed lead heavy-duty plates) and OPzS battery (closed lead heavy duty plates).

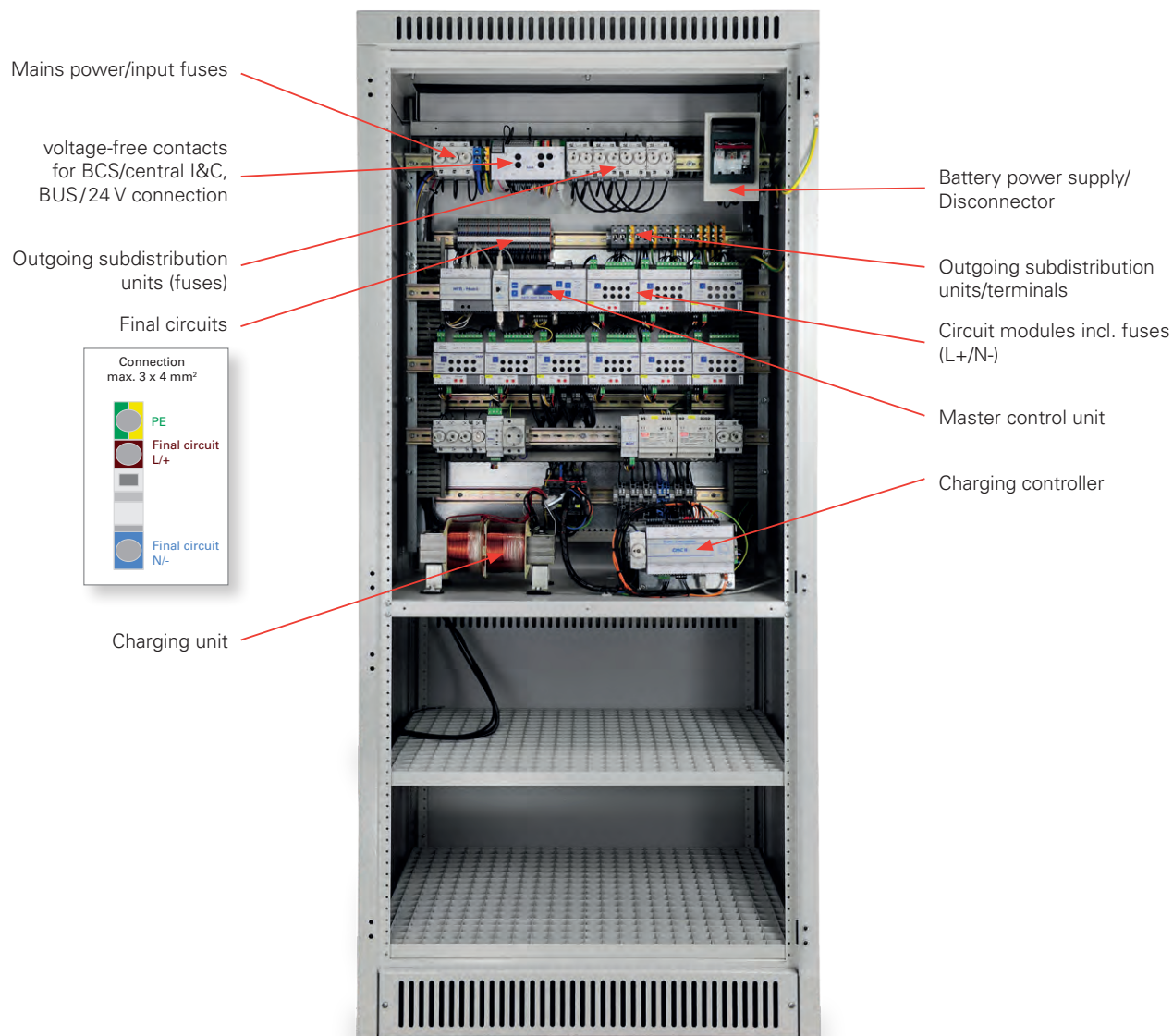
Whether BACnet or Modbus interface. MERLIN transfers the data in the required format.

Voltage-free signalling contacts are naturally included as a standard feature.

You want visualisation of the system and all connected luminaires. Not a problem.

You can access the complete system via a TCP/IP interface. We would be pleased to help you to program your MERLIN CPS system by means of remote access.

The MERLIN CPS system is produced in accordance with the respective current standard (EN 50171).



TECHNICAL DATA

- Max. power: 150 kVA, Output voltage: 230 V AC/DC
- Standard single luminaire monitoring using address modules
- Freely programmable final circuits for maintained and non-maintained light and mixed technology
- Microprocessor-controlled functional and duration test
- Programming optionally via PC
- Ethernet connection for web browser visualisation
- Autom. test equipment with logging/recording of results
- Optional: Higher-level visualisation via WEB-MASTER
- Optional: External IOM module (switch interrogation modules)

MERLIN CPS

SYSTEM DESCRIPTION

CPS systems use a battery system as a standby electricity source for safety purposes, to supply the connected loads in emergency mode. The bridging (stored energy time) is designed for 1h, 3h or 8h, depending on the requirements.

How it works

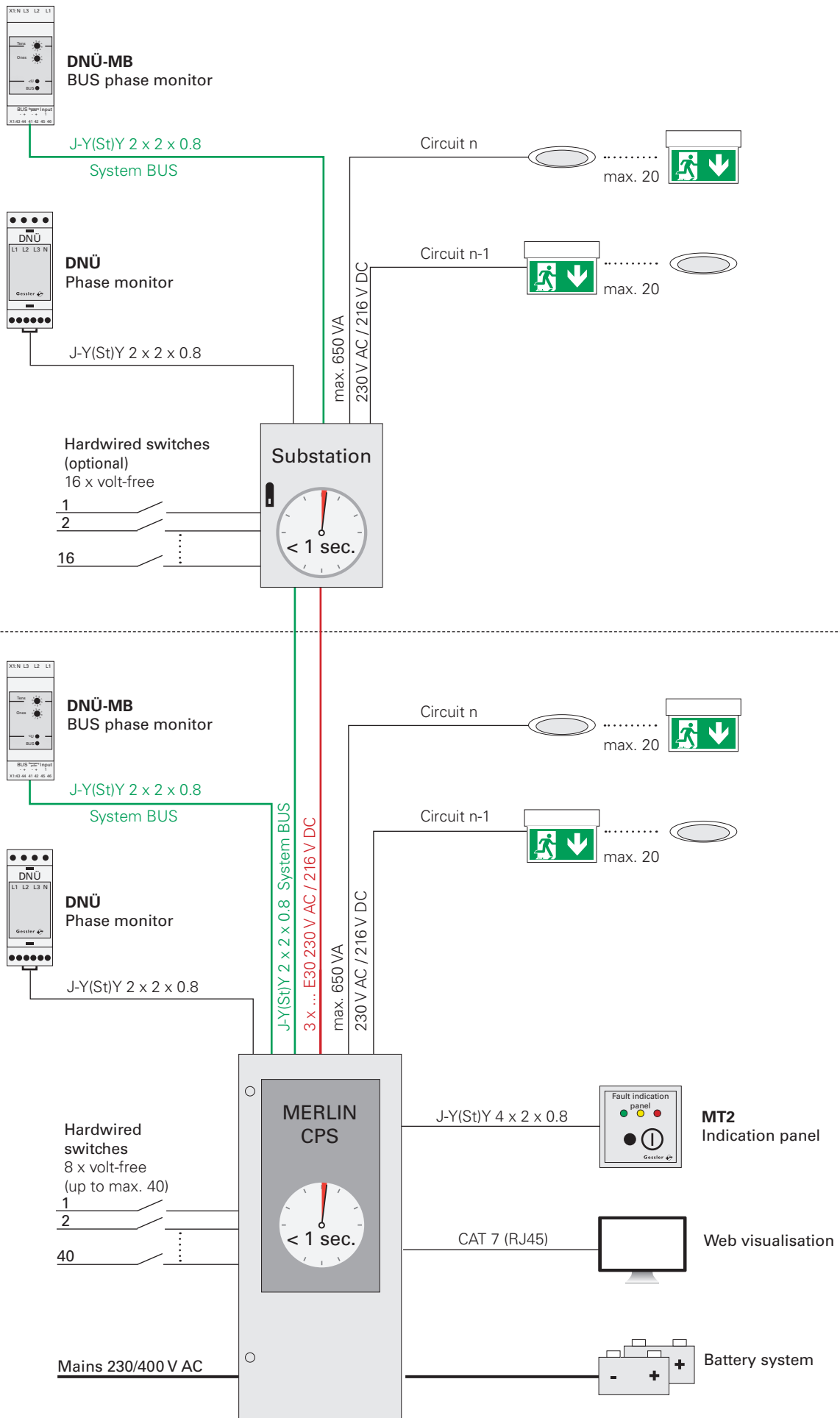
If a mains voltage is applied the loads are supplied from the mains and the battery system is charged. By monitoring the general lighting, it is ensured that in the event of a failure, the emergency lighting is switched on for the area concerned. In the event of failure or a fall in the mains voltage by more than 15%, the system switches to battery mode (DC mode). As a result, all connected exit sign and emergency luminaires, which are supplied from the central unit and the substations, are switched on automatically.

When the mains returns, the complete CPS system switches back to normal mode and charges the previously discharged battery system.

The luminaire test required by the standards is performed by MERLIN automatically and it records the result in the standard, integrated test log of the control unit.

REFERENCE: Tanzende Türme – Hamburg





MERLINMaster



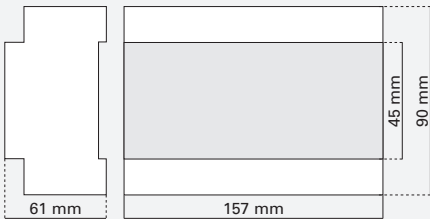
CONTROL UNIT

The master forms the heart of the system. It carries out all monitoring, logging and tests required by VDE 0108, EN 50172 and EN 50171.

The complete system can be programmed via the illuminated display.

All messages are displayed in plain text. The location texts can be input via the menu control or via a PC.

Examples:
Luminaire error, staircase 1, 2nd floor
Mains failure DNÜ-BAV-UV Corridor 3, 2nd floor



Top-hat rail mounting 9 HP

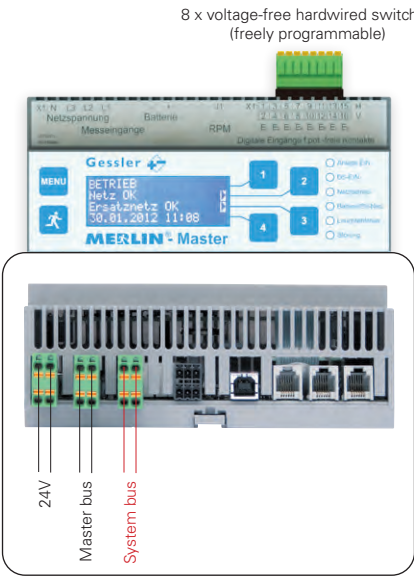
TECHNICAL DATA	MERLIN MASTER
Enclosure material	Plastic
Degree of protection	IP20
Display	4 x 20 characters
Operation /programming	via menu buttons
Hardwired switches	8 (freely programmable)
Connection ports	3 x RJ11 or 1 x USB 2 x RJ11

Substations can be optionally extended with a master. Due to the resulting distributed intelligence, all options are open to the owner/operator.



MERLIN-Button
Fast access to frequently used functions.

This button enables the owner/operator to call up a menu that they have compiled themselves with the press of a button.



WEB BROWSER

Visualisation

FUNCTIONAL DESCRIPTION

Access via a standard web browser enables user-friendly and self-explanatory menu navigation of the CPS system. All error messages and system data can be called up securely over the internet/intranet.

These are, g.g.:

- Visual display of all system information
- Continuous compilation and saving of the test log
- Display and printout and export of the test log
- Fault indication with detailed fault information
- Remote control of the system (ON/OFF, maintained luminaires ON/OFF, test initiation, circuit calibration)

DISPLAYS



Start page, system overview



Test results



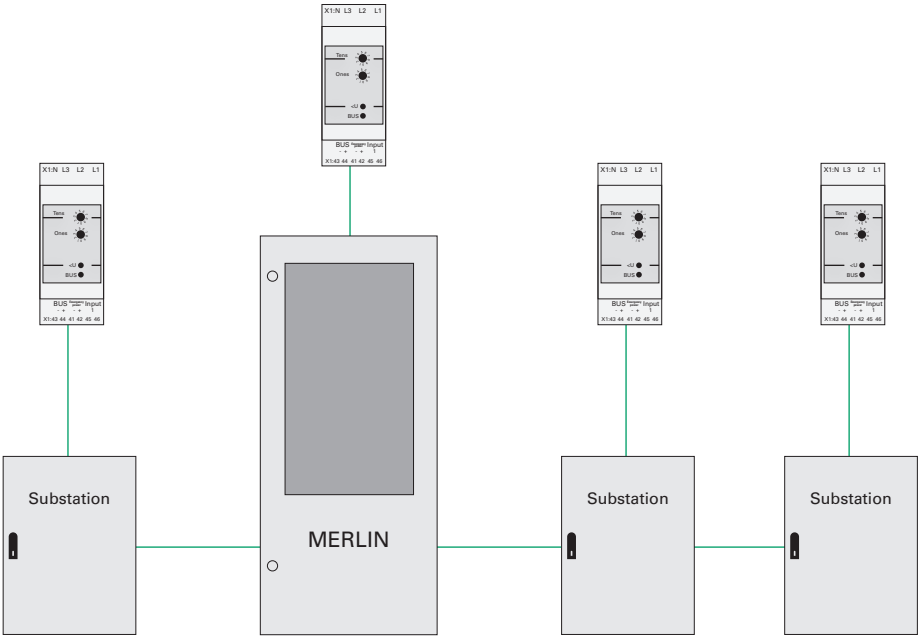
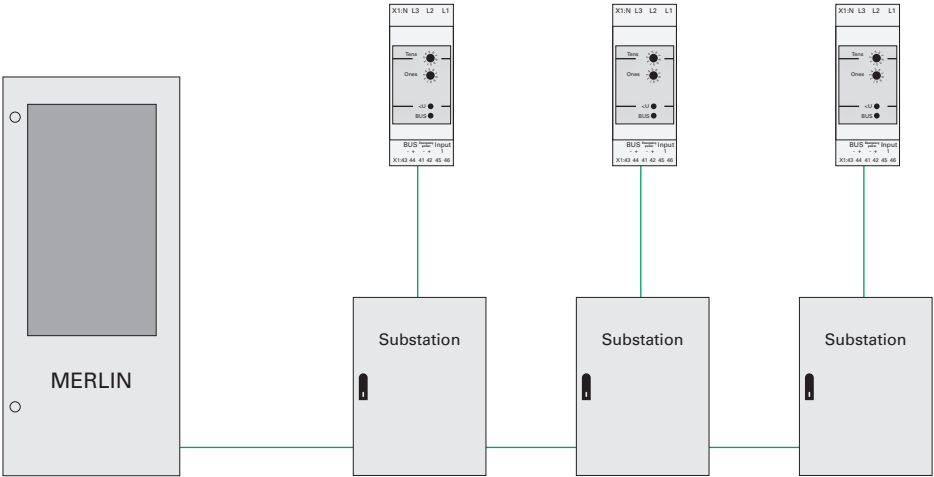
Test log



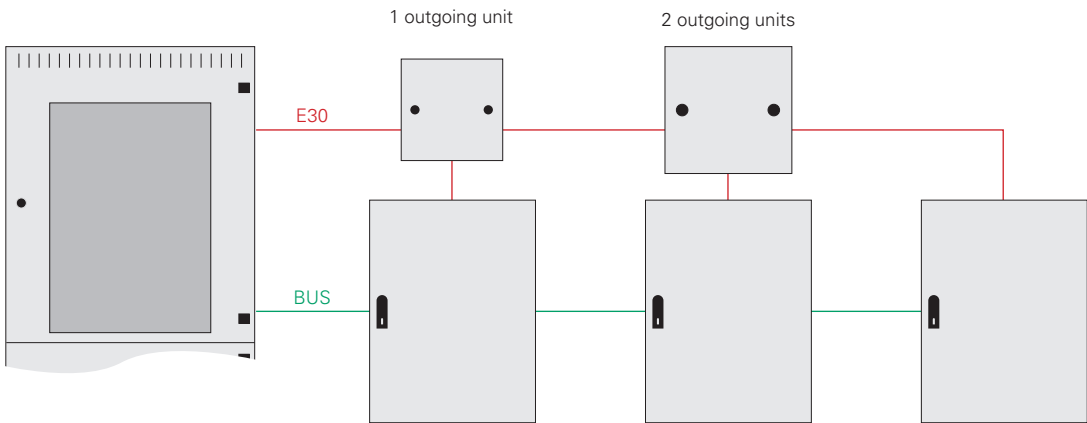
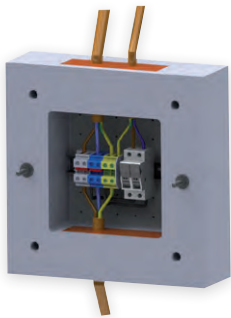
Master remote control

BUS CABLE LENGTHS MERLIN

Max. total BUS length: 1,000 m
Max. distance from BUS device to the CPS system: 400 m

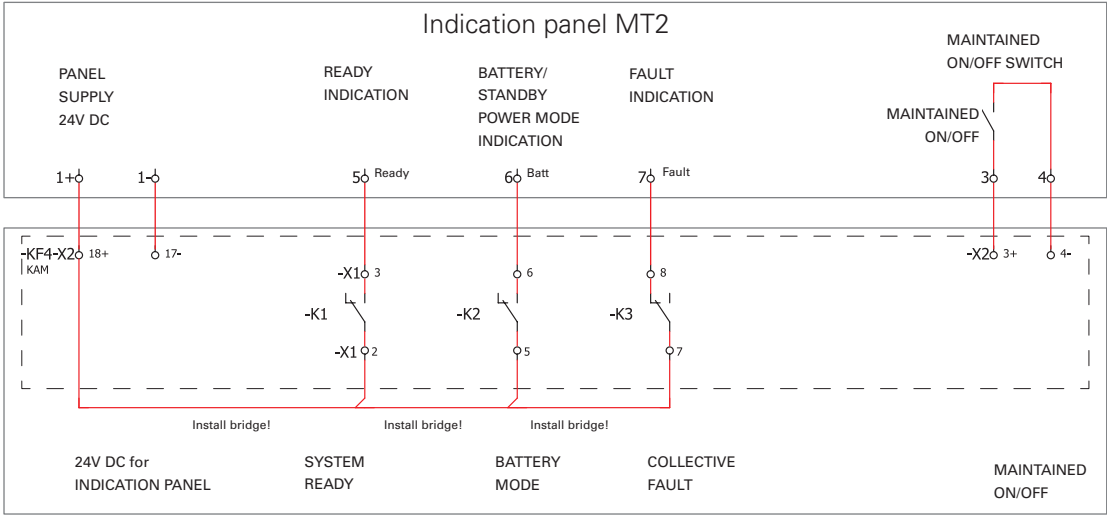
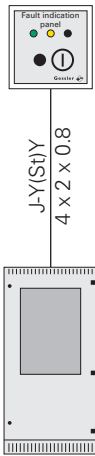


RISER JUNCTION BOX in E30



INDICATION PANEL MT2

CONNECTION PLAN FOR MERLIN



DNÜ-MB

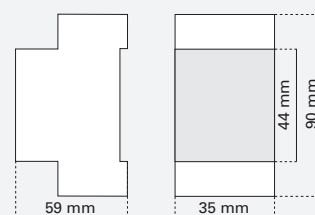
BUS phase monitor for MERLIN systems
for monitoring the normal mains supply

DNÜ-MB is a BUS phase monitor, which is used to monitor the normal mains supply.

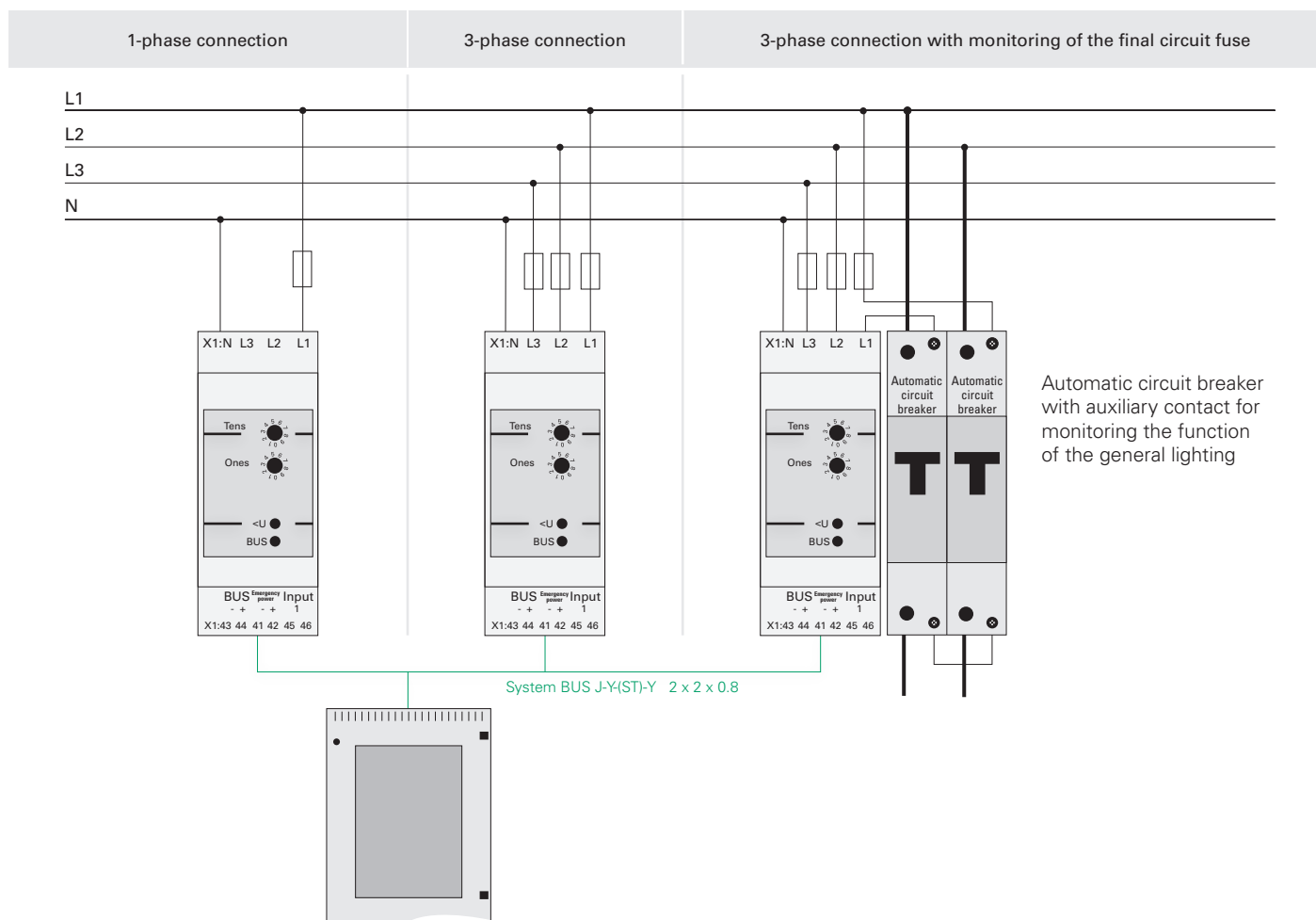
Each DNÜ-MB is connected to a Gessler LPS/CPS system via a BUS cable. A unique BUS address is assigned to each DNÜ-MB by means of a rotary coder. A location text can be assigned at any time (to enable accurately targeted correction of a local fault in the normal mains supply). As soon as one of the normal mains supply phases to be monitored falls below the nominal voltage by more than 15 %, the BUS phase monitor signals a local mains failure. The LPS/CPS system now switches on the emergency lighting off the area concerned and supplies the luminaires via the mains.



BUS MAINS MONITOR	DNÜ-MB
Enclosure material	Plastic
Nominal voltage	230V ± 10 %, 50/60 Hz / 176-275 V DC
Power consumption	2 W
Backup fuse	max. 16 A
Address range	1 to 99
Hardwired switches	1 x 24 V via external voltage-free contacts
Display	LED status display
Class	I
System	MERLIN + Quattro



Top-hat rail mounting 2 HP



ASSEMBLIES | MODULES MERLIN

The following assemblies and modules are compatible with MERLIN:



MLB10

Address module for
MERLIN systems



IOM230

Switch interrogation
module 230 V for
MERLIN systems



MLB10DD

Address module with
DALI disconnection for
MERLIN systems



IOM24

Switch interrogation
module 24 V for
MERLIN systems



DNÜ-MB

BUS phase monitor for MERLIN
systems



WEB-MASTER

High-level visualisation



DNÜ

Phase monitor



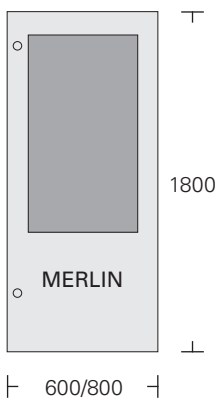
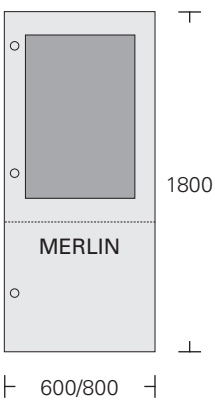
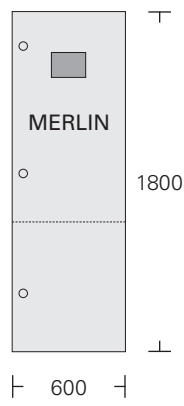
MT2

Indication panel

DIMENSIONS

MERLIN main devices and substations

MAIN DEVICES

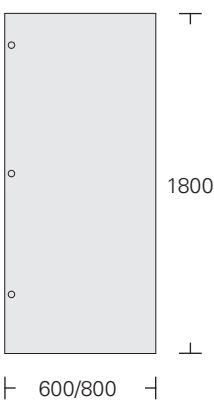


TECHNICAL DATA – SLIMLINE COMBINED CABINET	
Dimensions H x W x D [mm]	max. outgoing units (2-pole)
1800 x 600 x 500	20
max. 9200 VA	

TECHNICAL DATA – COMBINED CABINET	
Dimensions H x W x D [mm]	max. outgoing units (2-pole)
1800 x 600 x 450/600	20
1800 x 800 x 450/600	36
max. 9200 VA	

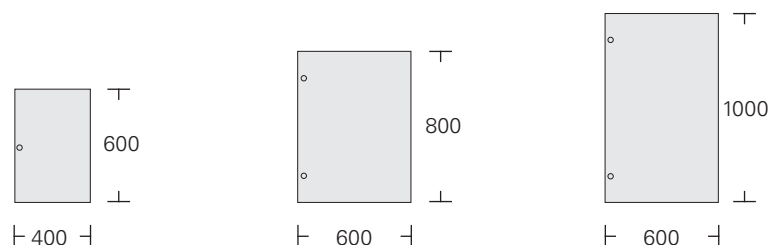
TECHNICAL DATA – EQUIPMENT CABINET	
Dimensions H x W x D [mm]	max. outgoing units (2-pole)
1800 x 600 x 450/600	60
1800 x 800 x 450/600	72
max. 18000 VA	

BATTERY CABINET

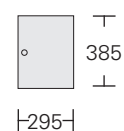


TECHNICAL DATA – BATTERY CABINET	
Dimensions H x W x D [mm]	
1800 x 600 x 600	
1800 x 800 x 600	

SHEET STEEL SUBSTATIONS (E0)



PVC SUBSTATION (E0)



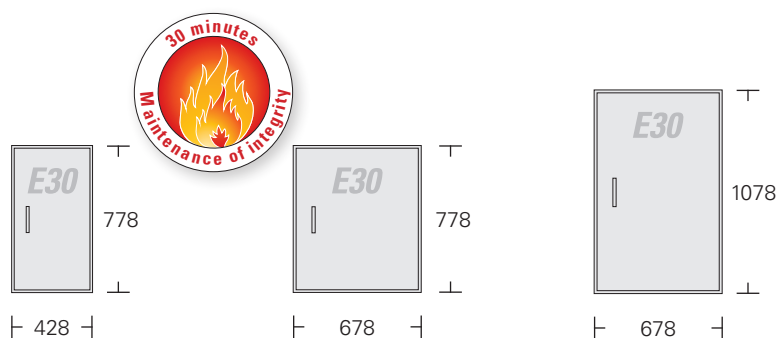
TECHNICAL DATA – SUBSTATIONS in E0

Dimensions H x W x D [mm]	max. outgoing units (2-pole)	Version
600 x 400 x 250	12	Wall-mounted cabinet
800 x 600 x 250	32	Wall-mounted cabinet
1000 x 600 x 250	44	Wall-mounted cabinet
Colour: RAL 7035		
Degree of protection: IP20		

TECHNICAL DATA – SUBSTATION in E0

Dimensions H x W x D [mm]	max. outgoing units (2-pole)
385 x 295 x 110	8
Colour: RAL 9010	
Degree of protection: IP43	
Version	
Wall-mounted cabinet	

SUBSTATIONS IN MAINTENANCE OF INTEGRITY (E30)



TECHNICAL DATA – SUBSTATIONS in MAINTENANCE OF INTEGRITY

Dimensions H x W x D [mm]	max. outgoing units (2-pole)	Version
778 x 428 x 275	8	Wall-mounted cabinet
778 x 678 x 325	28	Wall-mounted cabinet
1078 x 678 x 325	52	Wall-mounted cabinet
Colour: RAL 7035		
Degree of protection: IP54		



MERLIN KV 2000

LPS system



MERLIN KV2000 – The System

In the event of a mains failure, the MERLIN KV2000 LPS system supplies the connected luminaires via a battery system. All final circuits are pre-equipped for mixed technology (escape route and emergency luminaires in one circuit) and can be loaded up to max. 650 VA. The power of LPS systems is limited by the standards. Nonetheless, with 2000 W for 1h, 800 W for 3h and 370 W for 8h, the MERLIN KV2000 is a compact power wizard.

Communication with the luminaires takes place on the supply line (without additional BUS cable). Each address can be assigned a clear, unique location text to enable a luminaire to be localised quickly and conveniently in case of a fault.

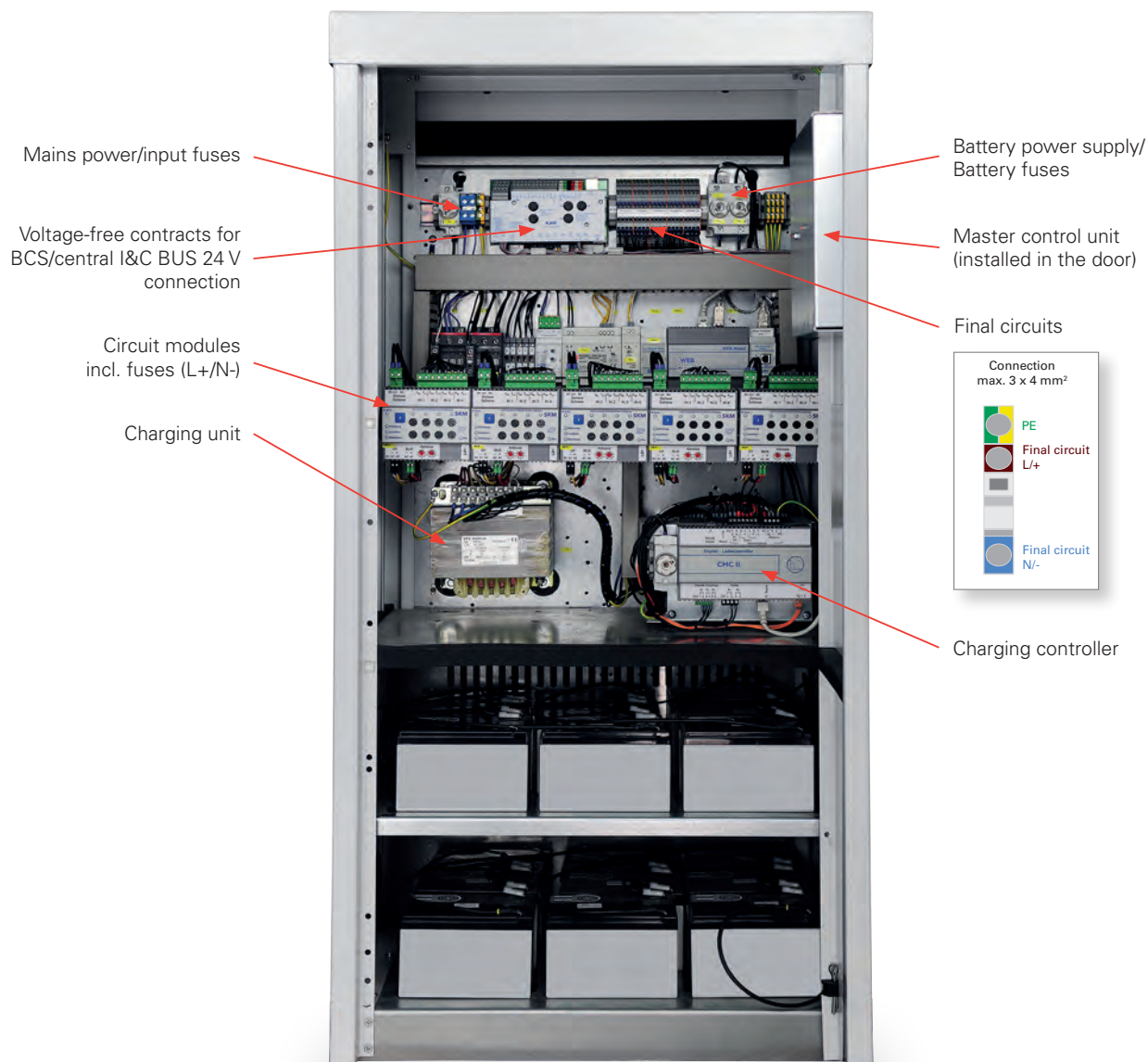
The monitoring of the general lighting can be ensured by means of MERLIN BUS phase monitors. In the event of a failure, the emergency lighting for the area concerned is switched on automatically. Each BUS phase monitor can be assigned a unique location test, so that the local normal supply fault can be corrected in a targeted way.

Whether BACnet or Modbus interface, MERLIN transfers the data in the required format. Voltage-free signalling contacts are naturally included as a standard feature.

You want visualisation of the system and all connected luminaires. Not a problem.

You can access the complete system via a TCP/IP interface. We would be pleased to help you to program your MERLIN LPS system by means of remote access.

MERLIN KV2000 is produced in accordance with the respective current standard (EN 50171).



TECHNICAL DATA

- Power 1h: 2000 W
3h power: 800 W
8h power: 370 W
incl. 25 % ageing reserve
- 4, 8, 12, 16 or 20 circuits (5A each)
230V output voltage AC/DC
- Standard single luminaire monitoring using address modules
- Freely programmable final circuits for maintained and non-maintained light and mixed technology
- Microprocessor-controlled functional and duration test
- Programming optionally via PC
- Ethernet connection for web browser visualisation
- Autom. test equipment with logging/ recording of results
- Optional: Higher-level visualisation via WEB-MASTER
- Optional: External IOM modules (switch interrogation modules)
- Optional: Installed in tested E-30 fire protection cabinet

MERLIN KV2000

SYSTEM DESCRIPTION

LPS systems use a battery system as a standby electricity source, to supply the connected loads in emergency mode. The bridging (stored energy time) is designed for 1h, 3h or 8h, depending on the requirements.

How it works

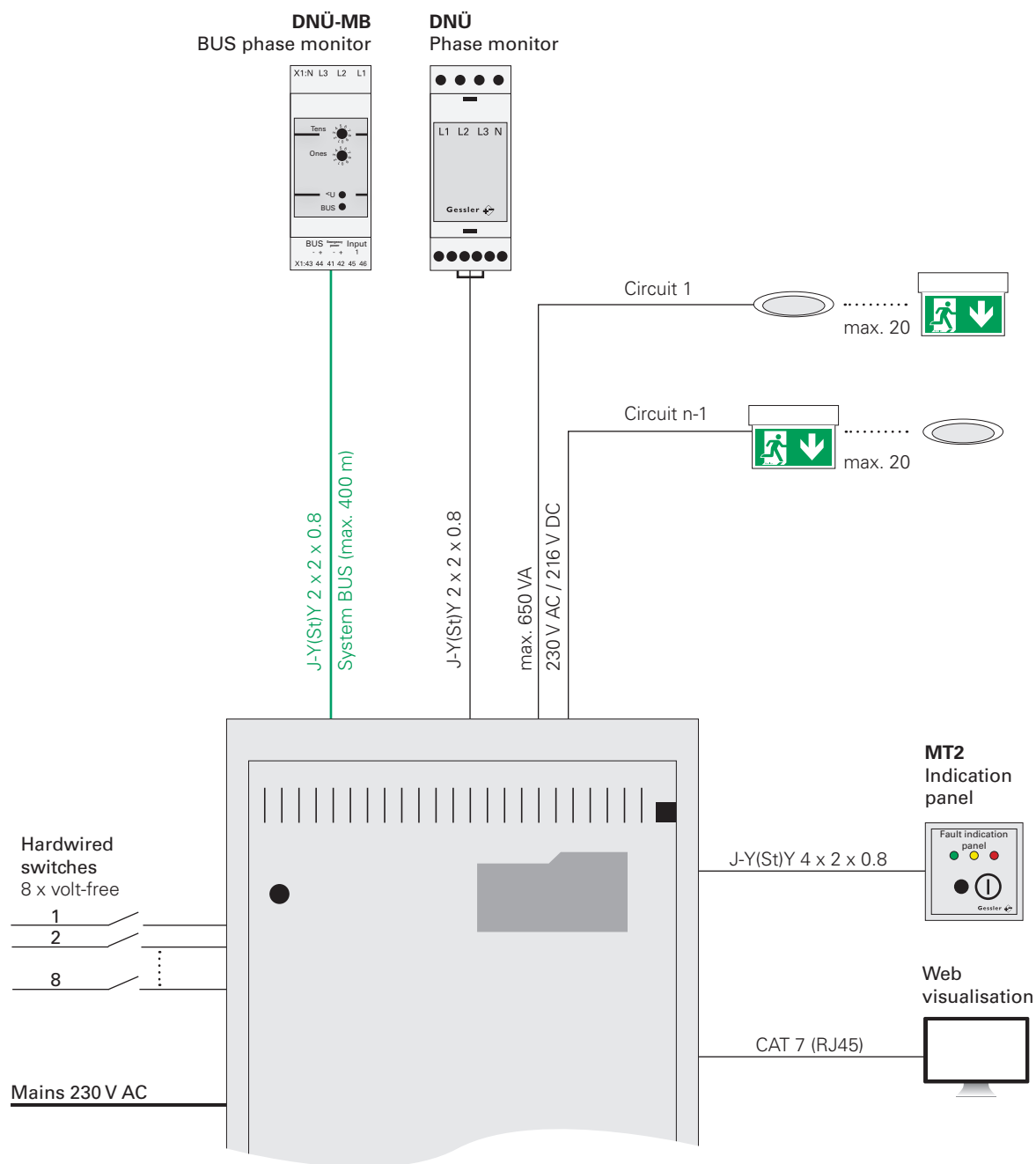
If a mains voltage is applied the loads are supplied from the mains and the battery system is charged. By monitoring the general lighting, it is ensured that in the event of a failure, the emergency lighting is switched on for the area concerned. In the event of failure or a fall in the mains voltage by more than 15%, the system switches to battery mode (DC mode). As a result, the connected escape route and emergency luminaires are switched on automatically.

As soon as a returning mains voltage is detected, MERLIN KV2000 switches to normal mode and again charges the battery system.

The luminaire test required by the standards is performed by the LPS system automatically and it records the result in the standard, integrated test log of the control unit.

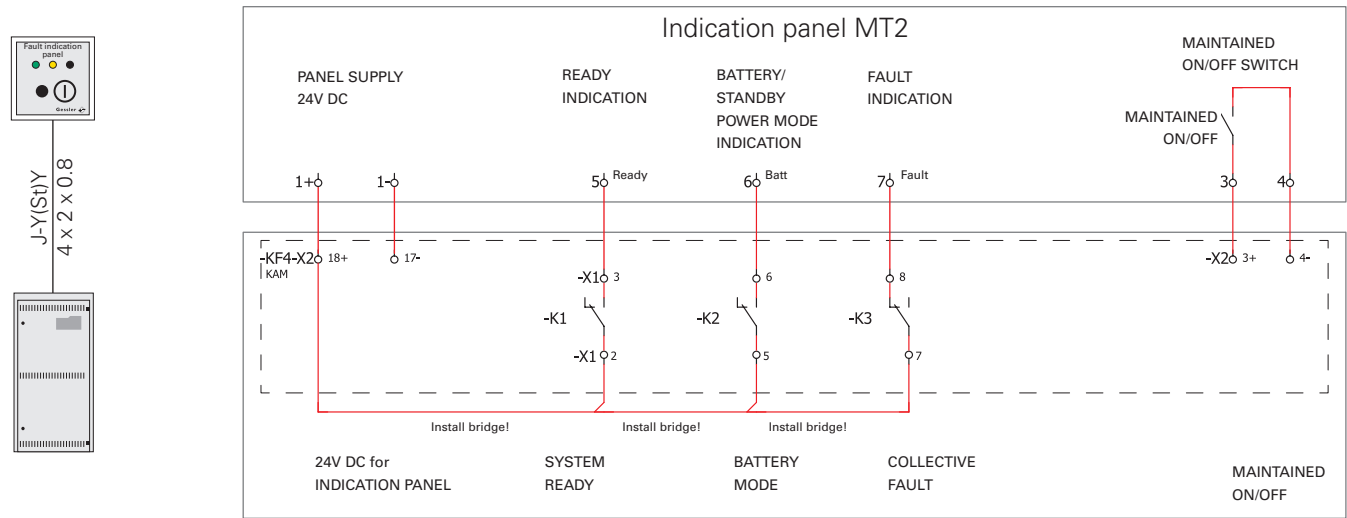
REFERENCE: LOOP5 shopping centre – Weiterstadt





MT2

CONNECTION PLAN FOR KV2000

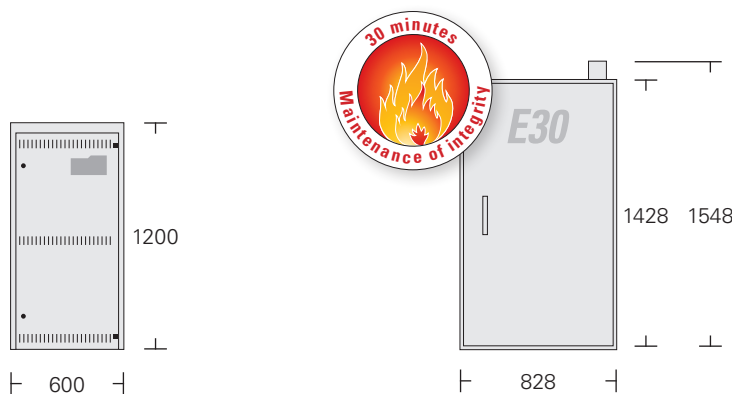


DIMENSIONS

MERLIN KV2000

MERLIN KV2000

MERLIN IN MAINTENANCE OF INTEGRITY (E30)



TECHNICAL DATA – MERLIN KV2000

Dimensions H x W x D [mm]

1200 x 600 x 430

Weight incl. batteries: approx. 150 kg

TECHNICAL DATA – MERLIN KV2000 in E30

Dimensions H x W x D [mm]

1428 x 828 x 575

Weight incl. device approx. 350 kg

ASSEMBLIES | MODULES KV2000

The following assemblies and modules are compatible with MERLIN:



MLB10

Address module for MERLIN systems



IOM230

Switch interrogation module 230 V for MERLIN systems



MLB10DD

Address module with DALI disconnection for MERLIN systems



IOM24

Switch interrogation module 24 V for MERLIN systems



DNÜ-MB

BUS phase monitor for MERLIN systems



WEB-MASTER

High-level visualisation



DNÜ

Phase monitor



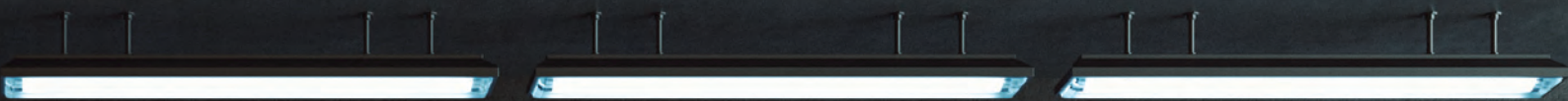
MT2

Indication panel

The image shows three long, rectangular emergency light fixtures mounted horizontally on a dark, textured wall. The fixtures are illuminated, casting a bright white light. Below the fixtures, the wall has a blueish-green tint. A semi-transparent grey rectangular box is positioned in the middle of the image, containing the product name and description. The bottom half of the image shows a dark, textured surface, possibly a floor or a lower wall section.

MERLIN QUATTRO LIGHT

Emergency lighting system



MERLIN QUATTRO LIGHT

The System

MERLIN QUATTRO LIGHT is a new generation LPS system. Designed to supply exit sign and emergency luminaires of individual fire compartments, in the event of a mains failure, QUATTRO LIGHT supplies all connected luminaires via a compact (low-gasification) 24V battery system.

Despite the 24V battery voltage, QUATTRO LIGHT has a system output voltage of 230V in normal and emergency mode.

Advantages: Gessler emergency lights do not necessarily have to provide the lighting of the escape routes.

You have the possibility of supplying part of the 230V general lighting (e.g. staircase lighting) in emergency mode.

To supply several fire compartments by means of one system, QUATTRO LIGHT is installed in a fire protection cabinet. This combination has a national technical approval (Z-86.2-76) issued by the Deutschen Institut für Bautechnik (DIBt).

All final circuits are pre-equipped for mixed technology (escape route and emergency luminaires in one circuit). Communication with the luminaires takes place on the supply line (without additional BUS cable).

Each address can be assigned a clear, unique location text to enable a luminaire to be localised quickly and conveniently in case of a fault.

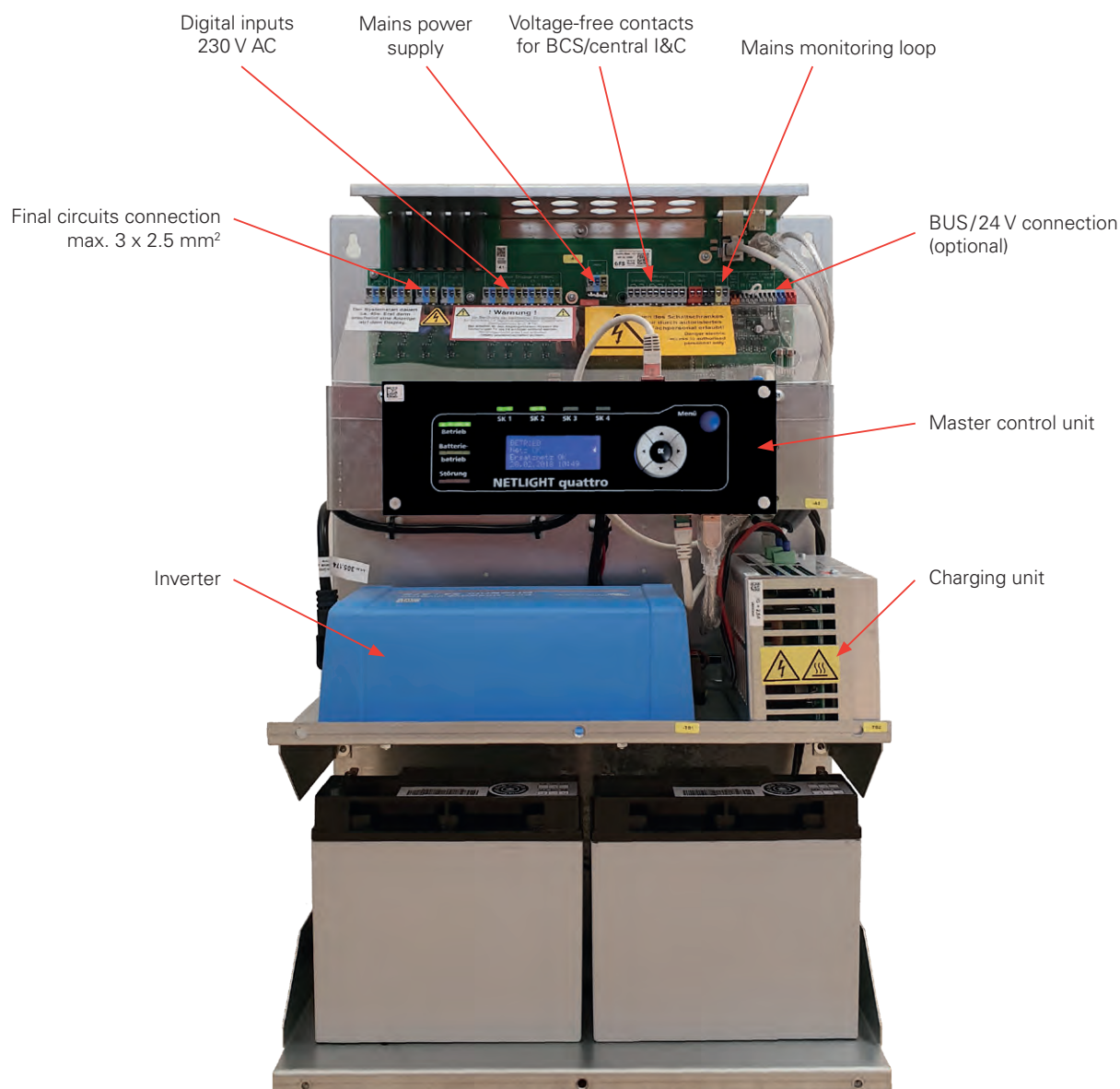
The monitoring of the general lighting can be ensured by means of MERLIN BUS phase monitors.

In the event of a failure, the emergency lighting for the area concerned is switched on automatically. Each BUS phase monitor can be assigned a unique location test, so that the local normal supply fault can be corrected in a targeted way.

You want visualisation of the system and all connected luminaires? Not a problem.

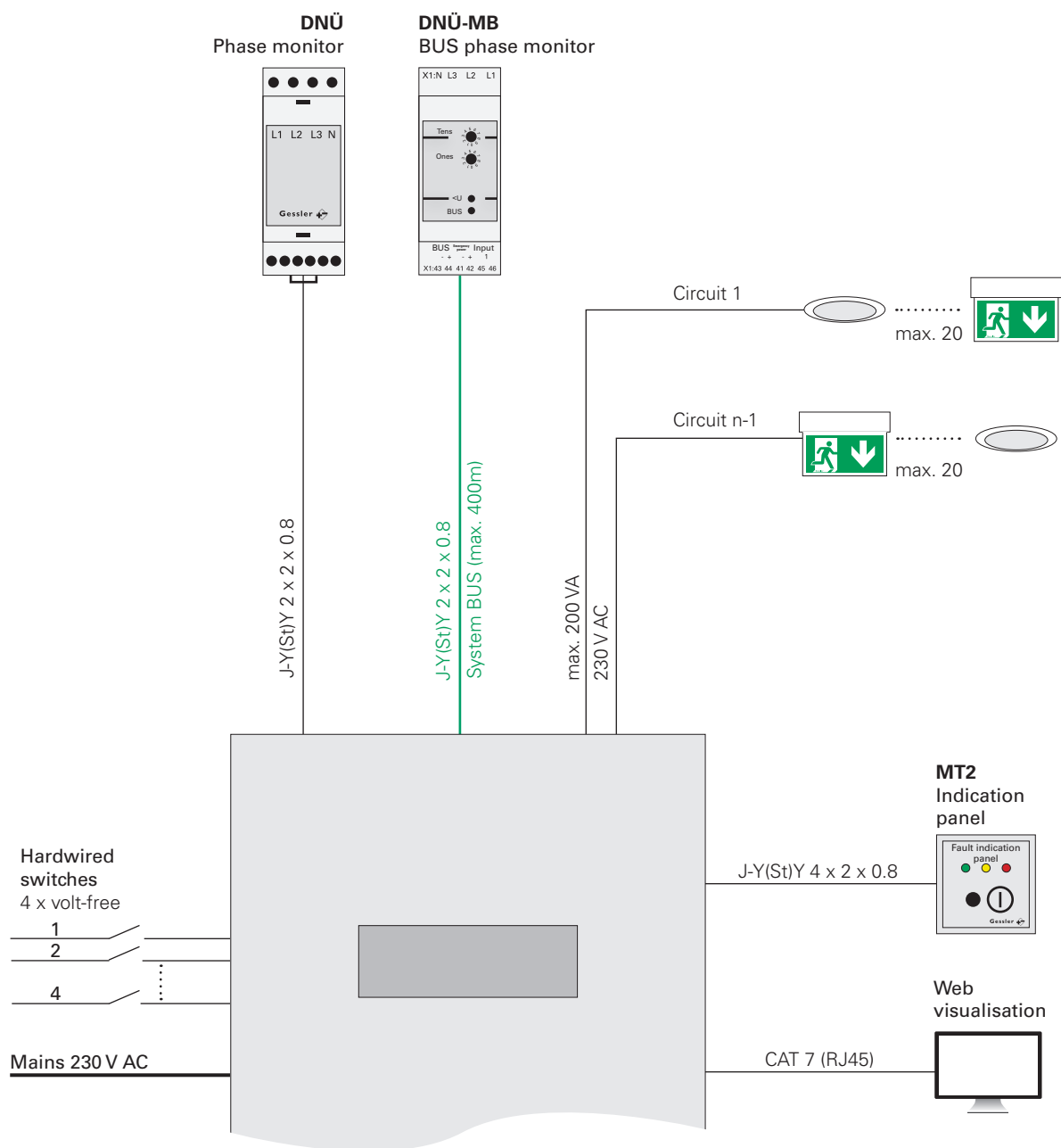
You can access the complete system via a TCP/IP interface.

QUATTRO LIGHT is produced in accordance with the respective current standard (EN 50171).



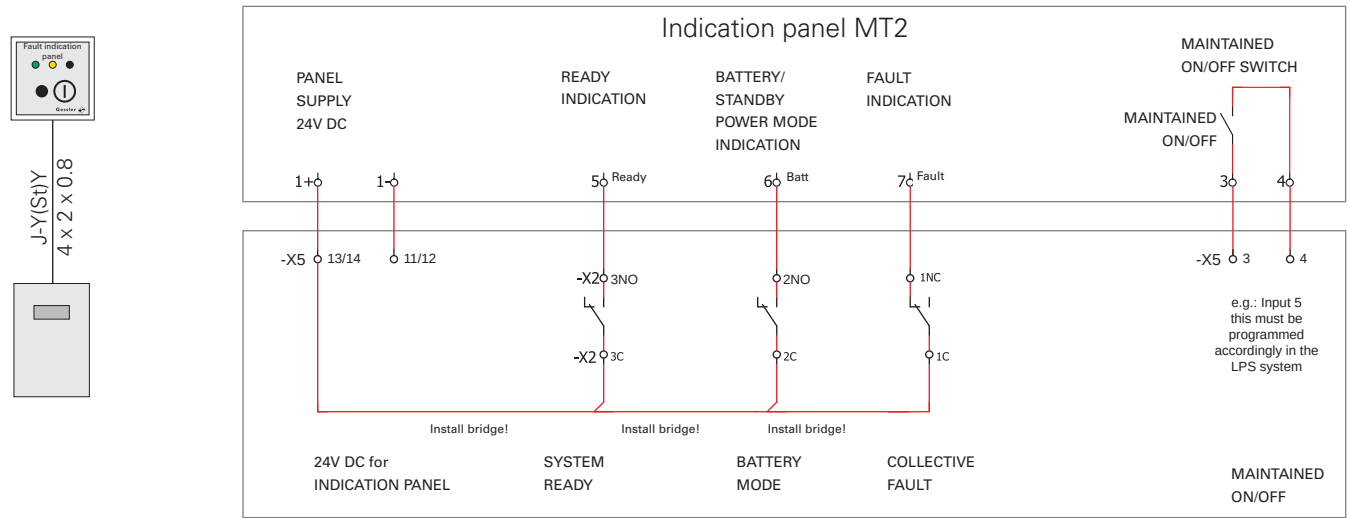
TECHNICAL DATA

- Power 1h: 250 VA / 350 VA
3h power: 225 VA / 350 VA
8h power: 88 VA / 188 VA / 250 VA
incl. 25 % ageing reserve
- 4 freely programmable final circuits (1.6 A each) for all operating modes
- 230 V output voltage (AC)
24 V battery voltage (DC)
- Standard single luminaire monitoring using address modules
- Freely programmable final circuits for maintained and non-maintained lighting and mixed technology
- Microprocessor-controlled functional and duration test
- Programming optionally via PC
- Ethernet connection for web browser visualisation
- Automatic test equipment with logging
- Optional: Higher-level visualisation via WEB-MASTER
- Optional: Installed in tested E-30 fire protection cabinet

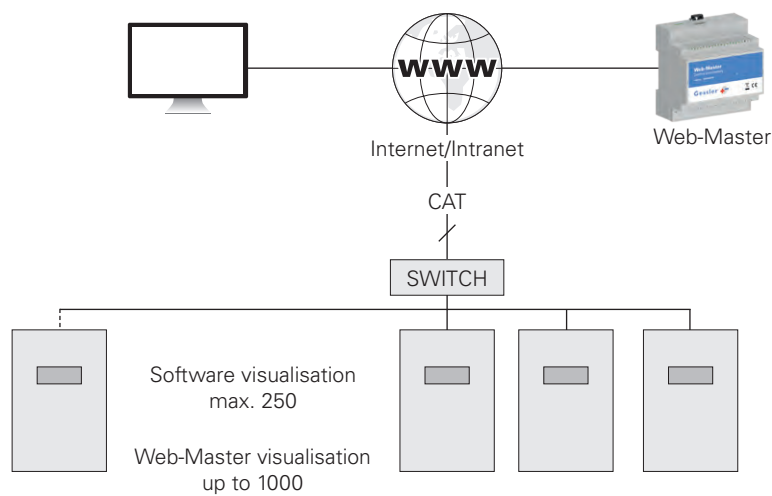


MT2

CONNECTION PLAN FOR MERLIN QUATTRO LIGHT



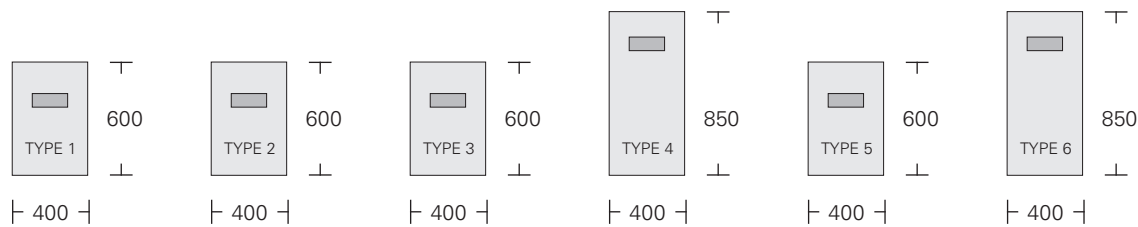
DISPLAY OF SOFTWARE /WEB-MASTER VISUALISATION



DIMENSIONS

MERLIN QUATTRO LIGHT

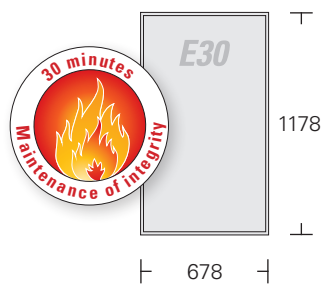
EQUIPMENT CABINETS



TECHNICAL DATA – QUATTRO LIGHT

Version	Power	Charging unit	Dimensions H x W x D [mm]	Weight [kg]
QUATTRO 1 h				
Type 1	250 VA	2.7 A	600 x 400 x 200	25
Type 2	350 VA	2.7 A	600 x 400 x 200	35
QUATTRO 3 h				
Type 3	225 VA	2.7 A	600 x 400 x 200	35
Type 4	350 VA	5.4 A	850 x 400 x 200	61
QUATTRO 8 h				
Type 5	88 VA	2.7 A	600 x 400 x 200	35
Type 6	188 VA	5.4 A	850 x 400 x 200	61

QUATTRO LIGHT IN MAINTENANCE OF INTEGRITY (E30)



TECHNICAL DATA – E30

Dimensions H x W x D [mm]
1178 x 678 x 345
Weight: 180 kg

ASSEMBLIES | MODULES QUATTRO

The following assemblies and modules are compatible with MERLIN:



MLB10

Address module for MERLIN systems



DNÜ

Phase monitor



MLB10DD

Address module with DALI disconnection for MERLIN systems



DNÜ-MB

BUS phase monitor for MERLIN systems



MT2

Indication panel



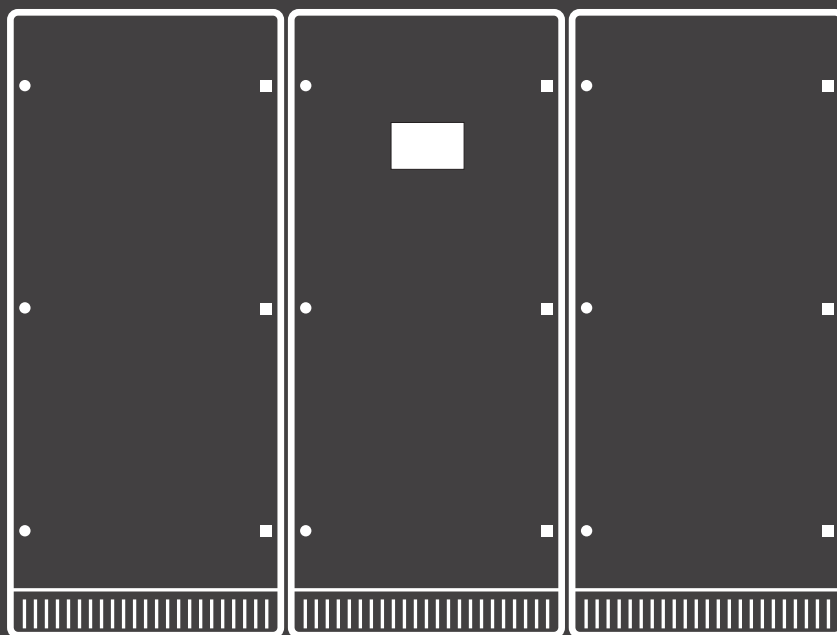
WEB-MASTER

High-level visualisation



7



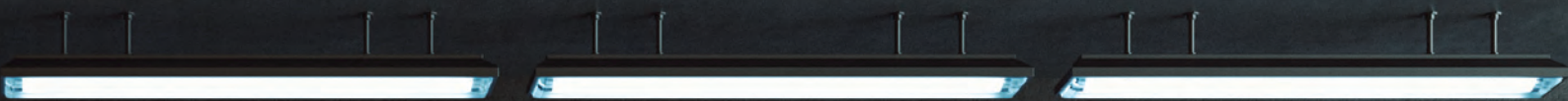


STANDBY POWER SUPPLY



POWERPACK

Dynamic battery standby
power supply



POWERPACK – The System

POWERPACK is a battery backup, rotating standby power supply, which we have developed as an alternative to conventional emergency standby power units (ESPU).

The system consists of a rotating generator set, a high-performance battery and a charging and control section with remote outgoing unit.

If a mains voltage is applied, the loads are supplied from the mains. In the event of failure or reduction of the mains voltage by more than 15 %, the generator set is started and supplies the connected loads within approx. 2 seconds (transfer time < 15 sec required). On request, the outgoing unit can be extended to include final circuits of the emergency lighting (transfer time < 1 second). Contemporary mixed technology (escape route and emergency luminaires in one circuit) with single luminaire monitoring and IP visualisation is easily possible.

POWERPACK has substantial advantages compared to units with a combustion engine:

No exhaust routing

The standards require exhaust routing above the roof for units with combustion engines. POWERPACK is completely exhaust-free.

No noise generation

While conventional units generate very high noise levels during operation, even when running at full load, the POWERPACK is roughly as loud as a standard hairdryer.

No approval procedures

No exhaust and no noise. For this reason, the POWERPACK is not a system requiring approval.

A TA Air or TA Noise approval (in Germany) is therefore not required.

Space requirement

POWERPACK only requires its own electrical location for the installation.

Compact design

Thanks to the upright converter (direct current motor with coupled three-phase AC generator), POWERPACK is very space-saving.

Maintenance

POWERPACK is virtually maintenance-free, as it has no consumables or wearing parts. The maintenance merely involves the annual testing of the battery.

POWERPACK is the right choice, and not only for the advantages named above. The emission-free system is also convincing with regard to ecological aspects. Due to permanent self-monitoring, the system provides maximum security. A conventional emergency standby power unit (ESPU) cannot ensure this operating reliability.

As a global market leader for rotating, battery standby power supply systems, we are the right partner for the project planning, dimensioning and implementation of your emergency power supply.

POWERPACK is produced to the respective current standards. The system fulfils DIN VDE 0100-560, DIN VDE 0108-100, EN 50171 and EN 50172.

Supply of



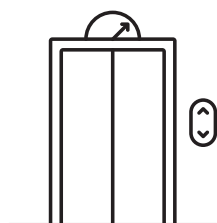
Firefighting water supply

POWERPACK is the ideal standby power supply for pumps for firefighting water supply (sprinkler or pressure increase). The starting currents of the pumps are given particular consideration when dimensioning the system size. The supply times depend on the requirements of the fire protection design analysis. 90-minute supply of the pumps within 12h mains failure can also be achieved easily.



Smoke control (SHEVS / SPS)

POWERPACK supplies smoke control fans in staircases, lift shafts and necessary corridors/escape routes (e.g. underground car park) for the required autonomy of 180 minutes.



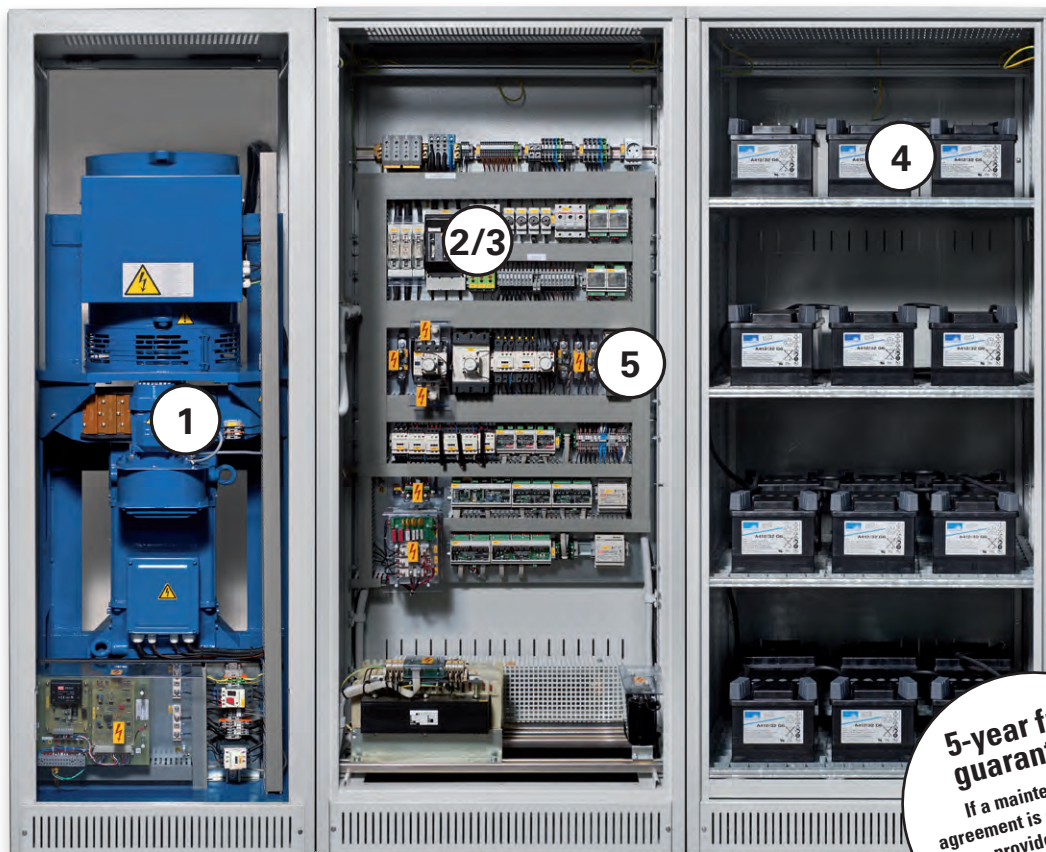
Lifts

POWERPACK ensures safe evacuation runs of passenger lifts. In the event of mains failure, these are lowered cascaded on the evacuation level (requested via the lift control). Fire service lifts can also be supplied. In this way, for example, the lift can be operated for 90 minutes within an 8h mains failure (supply provided after request).



Emergency escape lighting

POWERPACK can be extended to include final circuits for emergency lighting. All final circuits are pre-equipped for mixed technology (escape route and emergency luminaires in one circuit). Single luminaire monitoring is achieved by means of address modules in the luminaires. The stored energy time is designed for 1h, 3h or 8h, depending on the requirements. Up to a system power of 50 kVA, the transfer time is < 1 second.



**5-year full
guarantee**
If a maintenance
agreement is concluded,
we provide a 5-year
guarantee for all parts.

SYSTEM STRUCTURE

1. ROTATING CONVERTER

The heart of the POWERPACKsystem is the rotating generator set. It consists of a direct current shunt motor and a synchronous generator. These are mounted vertically upright on top of each other and are connected by a coupling.

The direct current shunt motor is equipped with a completely laminated magnetic circuit. A speedometer with control electronics ensures that the speed of the direct current motor, and thus the output frequency of the generator, remains constant even if the battery voltage drops.

The synchronous generator is brush less, self-excited and self-regulating. The automatic voltage regulator ensures a constant output voltage (400 V +/- 2 %).

The particular properties of the generator are:

- High steady-state short-circuit current
- Very good peak load performance
- High efficiency
- Low ripple content

The converter complies with or takes into account the basic conditions to DIN 6280-13 and DIN 6280-14 required in DIN VDE 0100-560.

2. SWITCHGEAR /CONTROL CABINET

The control cabinet contains the charging rectifier, the complete control and switching equipment to DIN VDE V 0108-100 and the connector panel with fuses for the mains and loads.

The built-in components are easily accessed and are arranged clearly and are safe to touch.

The core element is the microprocessor-controlled signalling and test system (STS) for permanent monitoring and automatic test running of the system. All data are recorded and registered in the event memory for 2 years.

3. OUTGOING UNIT (CABINET "E0" or "E90")

The loads are fused with low-voltage high-performance fuse circuit breakers (size 0 – 3) or DO2 Lino cur switches. These are mounted under the output terminals for easy access.

The system can be optionally equipped with loads for emergency lighting.

4. BATTERY SYSTEM

Only high-quality, maintenance-free and sealed lead batteries with a useful life of at least 10 years are used.

The battery housings are fully insulated and are set up to be safe to touch and non-spellable. The voltage of each individual cell can be controlled through measurement openings.

The battery blocks are accommodated in modular cabinets, suitable for the switchgear.

Attention must be paid to ensuring sufficient air supply and ventilation of the room in accordance with EN IEC 62485-2.

5. TEST EQUIPMENT

The integrated fully-automatic test equipment of the POWERPACKsystem performs the specified functional tests automatically and records not only the test results but also the operating and fault messages.

The logged data and the results of the circuit monitoring and individual luminaire testing can be shown on the display at any time, or output on an optional printer.

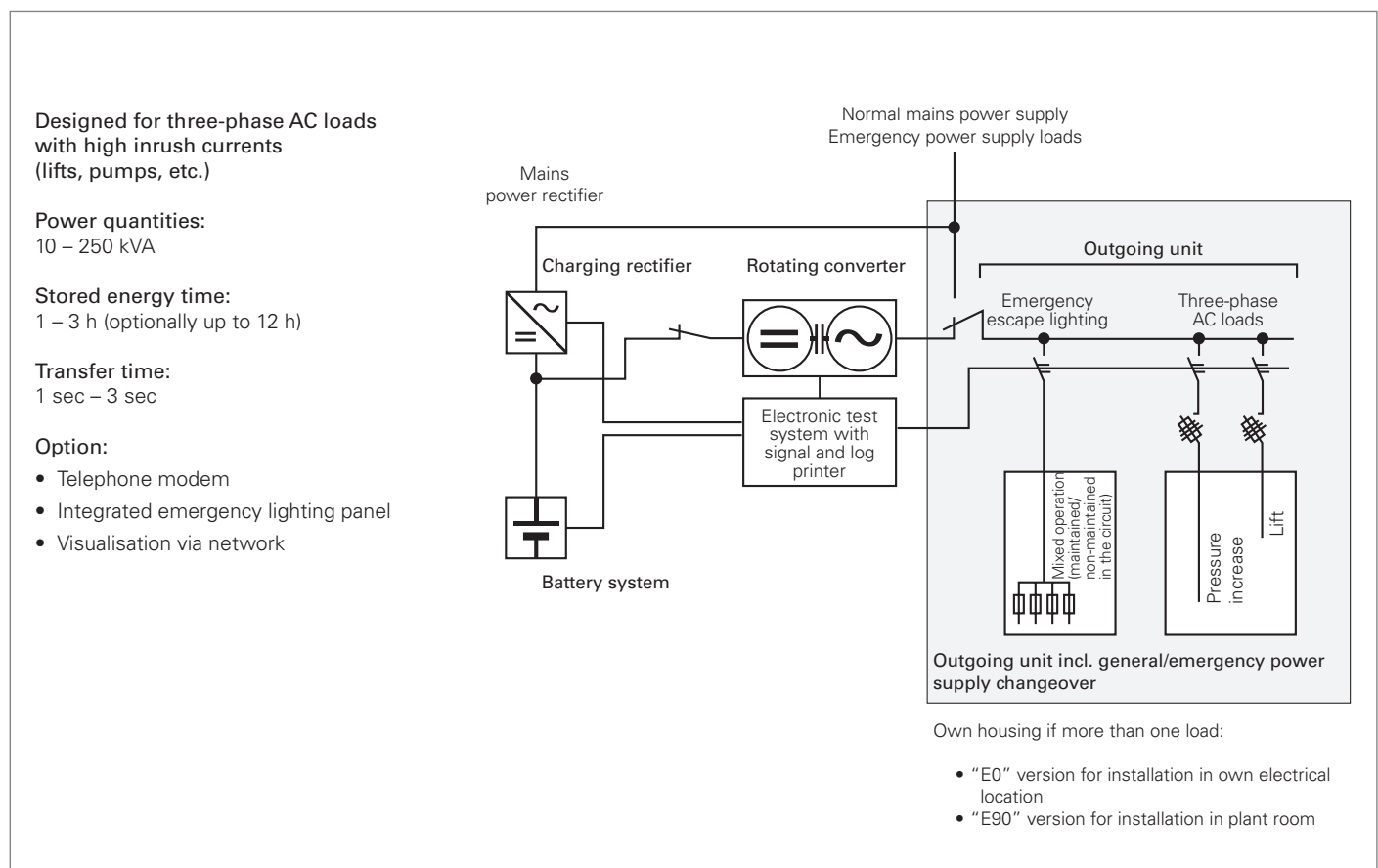
PROJECT PLANNING DATA

Rated apparent power [kVA]	Mains supply cable* [mm²]	Fusing in V MAIN DISTRIBUTION* [A]	Steady-state short-circuit current (3-pole short-circuit) [A]	Steady-state short-circuit current (1-pole short-circuit) [A]	Max. load fusing [A]	Dimensions e.g. for 1.5 h emergency operation** H x W x D [mm]	Weight [t]
10	5 x 10	50	81	200	20	1800 x 2400 x 600	2.2
15	5 x 16	63	160	400	35	1850 x 2600 x 600	2.4
20	5 x 16	63	180	480	35	2000 x 2400 x 800	2.7
25	4 x 25/16	80	230	570	50	2000 x 2800 x 800	3.0
35	4 x 35/16	100	270	675	50	2000 x 3000 x 800	3.5
45	4 x 50/35	125	400	1000	80	2000 x 3400 x 800	4.1
55	4 x 70/35	160	480	1200	80	2000 x 3600 x 800	4.7
65	4 x 95/50	200	580	1480	100	2000 x 4050 x 800	5.9
80	4 x 95/50	200	690	1725	125	2150 x 4200 x 800	7.2
100	4 x 120/70	250	840	2100	160	2150 x 4800 x 800	8.4
120	4 x 150/70	315	1080	2625	200	2150 x 5800 x 800	10.3
140	4 x 185/95	400	1150	2875	200	2150 x 8800 x 800	11.6
160	4 x 240/120	500	1400	3500	250	2150 x 10200 x 800	13.5
180	2 x 4 x 120/70	630	1600	4000	315	2150 x 12500 x 800	14.8
200	2 x 4 x 150/95	630	1600	4000	315	2150 x 13300 x 800	17.0

***Attention:** If several lifts are supplied, the cross-section and fusing are increased accordingly.
Attention must also be paid to the cable length and type of laying.

****The dimensions can change due to different supply times or the number and type of outgoing load units.**

SCHEMATIC CIRCUIT DIAGRAM



POWERPACK

TECHNICAL DATA

[kVA]	10 15 20 25 35 45 55 65 80 100 120 140 160 180 200 250																		
[min.]	up to 180 min																		
	Voltage:									230/400 V ±10 %									
	Frequency:									50 Hz ±5 %									
	Voltage:									230/400 V ±2 % (static load) 230/400 V ±10 % (dynamic load)									
	Frequency:									50 Hz ±1 % (static load) 50 Hz ±5 % (dynamic load)									
	Recovery time:									0.3 s									
	Interference suppression level:									‘N’ in accordance with VDE 0875									
	120 %									for 1 h									
	150 %									for 5 min									
	250 %									for 30 sec									
	min. 85 %																		
	3 × I _{nm} for 3-pole short-circuit									for 10 sec									
	4.8 × I _{nm} for 2-pole short-circuit									for 7 sec									
	7.8 I _{nm} for 1-pole short-circuit									for 3 sec									
	70 – 82 dB(A) in emergency operation																		
	Signal and test system for automatic test run																		
Sealed lead batteries (other battery types possible)	Design life:									12 years									
	Nominal voltage:									420 V/228 V									
Capacity reserve in accordance with EN 50171	Number of cells:									210/114									
	End-point voltage:									1.8 V/cell									
	IU																		
All operating states and fault messages are displayed clearly on a block diagram by means of LEDs.	• Load voltage (L1 – L3) • Load current (L1 – L3) • Frequency • Battery voltage • Charging current									• Operating hours counter • Active load power (L1 – L3) • Apparent load power (L1 – L3) • Power factor (cos phi) (L1 – L3) • Withdrawal capacity									
	Temperature:									0 °C to + 40 °C switchgear + generator +5 °C to + 25 °C battery									
	Rel. humidity:									max. 95 % non-condensing									
Modular sheet steel cabinets	Degree of protection:									IP 20									
	Cable entry:									optionally from above /below									
	Paint finish (cabinet):									RAL 7035 (other colours optional)									
	Paint finish (converter)									RAL 5019									
	Right/left-hinged door:									selectable									
Potential-free signals to DIN VDE 0100-560 (changeover contact)	• Ready for operation • Battery mode									• Collective fault • Emergency operation									
Optional:	• Emergency escape lighting with single luminaire monitoring (mixed operation) • WEB-MASTER link																		



POWERSTAR

Static battery standby
power supply



POWERSTAR – The system

POWERSTAR is a static battery standby power supply for supplying 1-phase and 3-phase safety-related loads. Depending on the system size, the compact design requires an installation space of only 2 - 8 m². The permanent self-monitoring ensures maximum security.

The system consists of a rectifier, an inverter with electromechanical changeover device, a long-life, high-performance battery and a remote outgoing unit (optional).

If a mains voltage is applied, the loads are supplied from the mains. In the event of failure or reduction of the mains voltage by more than 15 %, POWERSTAR switches to battery mode and supplies the connected loads within approx. 3 seconds via the inverter.

On request, the outgoing unit can be extended to include final circuits of the emergency lighting. Contemporary mixed technology (escape route and emergency luminaires in one circuit) with single luminaire monitoring and web-based visualisation is easily possible. The transfer time is 1 second.

As the market leader for battery standby power supply systems, we are the right partner for the project planning, dimensioning and implementation of your emergency power supply.

POWERSTAR is produced to the respective current standards. The system fulfils DIN VDE 0100-560, EN 50171 and EN 50172 and DIN VDE V 0108 Part 100-1.

Supply of



Emergency warning systems

POWERSTAR supplies electro-acoustic emergency warning systems in public buildings such as airports, railways stations, department stores and sports venues. If they do not have their own power supply (UPS), they must be supplied from a central emergency power supply.



Smoke control (SHEVS / SPS)

POWERSTAR supplies smoke control fans in staircases, lift shafts and necessary corridors/ escape routes (e.g. underground car park) for the required autonomy of 180 minutes.



Emergency escape lighting

POWERSTAR can be extended to include final circuits for emergency lighting. All final circuits are pre-equipped for mixed technology (escape route and emergency luminaires in one circuit). Single luminaire monitoring is achieved by means of address modules in the luminaires. The stored energy time is designed for 1h, 3h or 8h, depending on the requirements.



CO₂ detection system

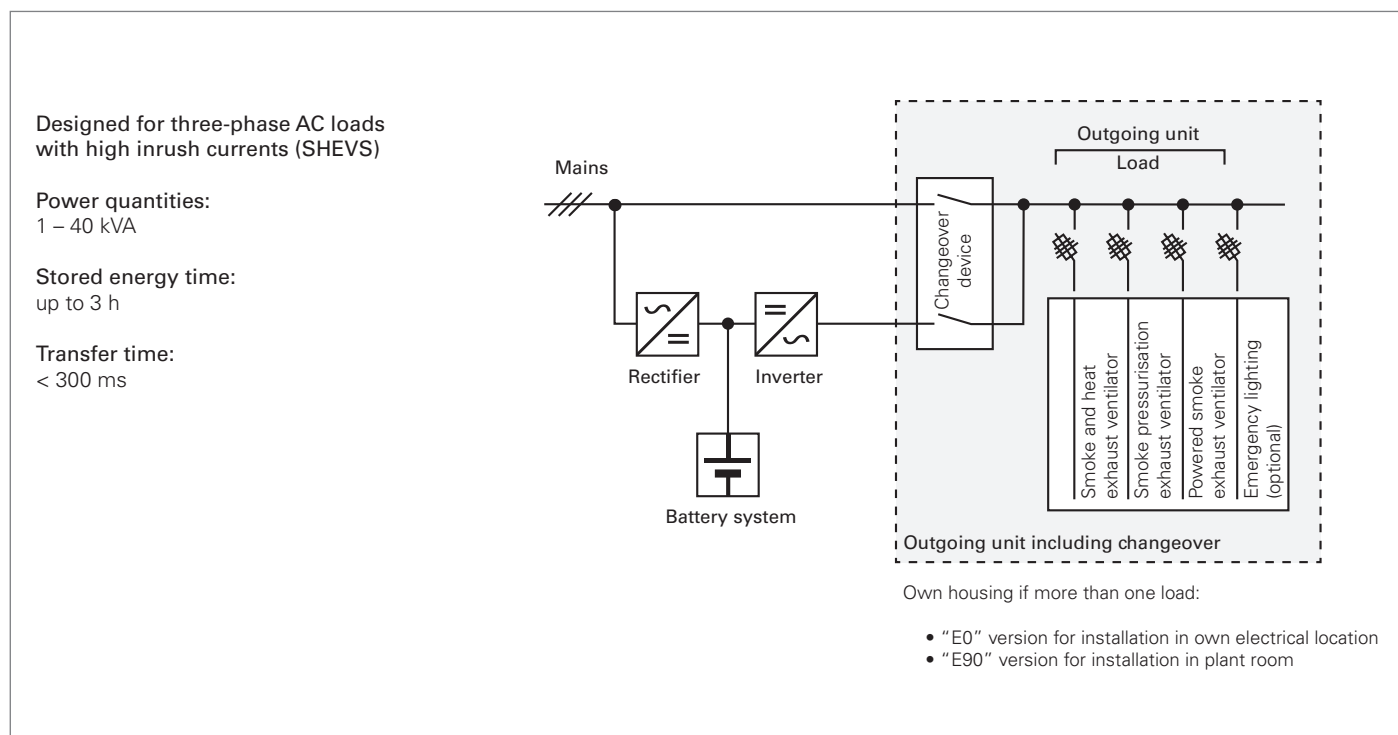
POWERSTAR ensures a secure supply of CO₂ sensor units in danger zones, including the extraction equipment. Carbon dioxide (CO₂) is toxic and low concentrations are sufficient to damage health. The consequences can be dizziness, cramps through to fast unconsciousness and death. The legal requirements were made more stringent to prevent this risk and an emergency power supply is required.

PROJECT PLANNING DATA

Rated apparent power [kVA]	Max. power supplied to the motor/load [kW]	Dimensions H x W x D [mm]	Dimensions of battery cabinet, e.g. for 1.5 h emergency operation* H x W x D [mm]	Approx. weight [kg]	Approx. weight, e.g. for 1.5 h emergency operation* [kg]
1	0.65	2000 x 850 x 600 Combined cabinet	–	200	120
1.5	1.0	2000 x 850 x 600 Combined cabinet	–	210	160
2.2	1.5	2000 x 850 x 600 Combined cabinet	–	225	250
3.2	2.2	2000 x 850 x 600 Combined cabinet	–	250	340
4.2	3.0	2000 x 950 x 600 Combined cabinet	–	260	400
5.7	4.0	2000 x 950 x 600	2000 x 600 x 600	290	640
7.8	5.5	2000 x 950 x 600	2000 x 950 x 600	335	930
10	7.5	2000 x 950 x 600	2000 x 1700 x 600	400	1350
15	11	2000 x 1100 x 600	2000 x 1900 x 600	600	1850
20	16	2000 x 1100 x 800	2000 x 2550 x 600	700	2300
25	20	2000 x 2 x 850 x 800	2000 x 1900 x 800	915	2500
30	24	2000 x 2 x 850 x 800	2000 x 2550 x 800	975	3000
40	32	2000 x 2 x 0950 x 800	2000 x 3150 x 800	1120	3500

***Attention:** The dimensions can change due to different supply times or the number and type of outgoing load units.

SCHEMATIC CIRCUIT DIAGRAM



POWERSTAR

TECHNICAL DATA

Power quantities [kVA]	1 1.5 2.2 3.2 4.2 5.7 7.8 10 15 20 25 30 40	
Stored energy time [min.]	up to 180 min	
Input	Voltage: (1-phase systems also possible) Frequency:	3/N/PE 400 V ± 10 % 50 Hz ± 5 %
Output	Voltage: (1-phase systems also possible) Frequency: Power factor: Distortion factor:	3/N/PE 400 V ± 2 % (dynamic < 8 %) 50 Hz ± 0.1 % free-running 0.8 ind...0.8 cap. THDU < 3 % for linear load
Overload capability	105 % 125 % 150 % 700 %	continuous for 10 min for 1 min for 10 sec (current limiting $7 \times I_{NOM}$)
Efficiency	min. 88 %	
Noise level	< 60 dB(A)	
Automatic testing	Signal and test system for automatic test run	
Batteries	Design life:	12 years
Sealed lead batteries (other battery types possible)	Nominal voltage:	220 V
	Number of cells:	108
Capacity reserve in accordance with EN 50171	End-point voltage:	1.8 V/cell
Charging characteristic	IU	
Display / measured values All operating states and fault messages are displayed clearly on a block diagram by means of LEDs.	• Load voltage (L1 – L3) • Load current (L1 – L3) • Frequency • Battery voltage • Charging current	• Operating hours counter • Active load power (L1 – L3) • Apparent load power (L1 – L3) • Power factor (cos phi) (L1 – L3) • Withdrawal capacity
Ambient conditions	Temperature:	0 °C to +40 °C system +5 °C to +25 °C battery
	Rel. humidity:	max. 95 % non-condensing
Housing Modular sheet steel cabinets	Degree of protection: Cable entry: Paint finish (cabinet): Paint finish (converter): Right/left-hinged door:	IP 20 top (optionally possible from the bottom) RAL 7035 (other colours optional) RAL 5019 selectable
Signals Potential-free signals to DIN VDE 0100-560 (changeover contact)	• Ready for operation • Battery mode	• Collective fault • Emergency operation
Optional:	• Emergency escape lighting with single luminaire monitoring (mixed operation) • WEB-MASTER link	

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Main office

Gessler GmbH
Gutenbergring 14
63110 Rodgau
Germany

Phone: +49 (0) 6106 / 8709-0
Fax: +49 (0) 6106 / 8709-50
Email: info@gessler.de



Export

Tanja Schäfer
Gutenbergring 14
63110 Rodgau
Germany

Phone: +49 (0) 6106 / 8709-53
Fax: +49 (0) 6106 / 8709-80
Email: t.schaefer@gessler.de