



Emergency lighting solutions





Honored as one of the
most-innovative medium-sized
businesses **in Germany!**

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1975

Based in the Rhine-Main metropolitan region, the company was founded by Helmut Gessler in 1975.

Quality - Made in Germany. Our products have been developed and manufactured here ever since.

Made in
Germany

5 million

Since the company was founded, more than five million Gessler branded quality products have been assembled.

At peak times, Gessler produces more than 20,000 exit sign luminaires and emergency lighting luminaires per month.

20,000

100+

Today, Gessler employs more than 100 staff across Germany.

A division of nine regional sales teams plus a central export department are prepared to fully support our national and international customers.

9+1

15,000

Our customer base includes more than 15,000 clients.

Quality products “Made in Germany”

Emergency lighting and power supply systems



Gessler is a leading German manufacturer of exit and emergency lighting solutions. Our range of high-quality products includes central power supply systems, single-battery systems, exit sign and emergency luminaires which are designed to make a bold aesthetic statement.

Over the past 40 years, Gessler has developed from a small family business to one of Germany's leaders in the production of emergency lighting and power supply systems.

From product development and production, to delivery and technical support, Gessler is dedicated to providing the highest product quality and customer service. Our products are internationally renowned for their innovative design, their quality and reliability. Gessler offers a broad range of emergency lighting systems and integrated solutions for commercial buildings, health-care facilities, office buildings, production plants, hotels, shopping malls and many other types of buildings.

A handwritten signature in blue ink, reading "Marcus Gessler".

Dipl.-Ing. **Marcus Gessler**

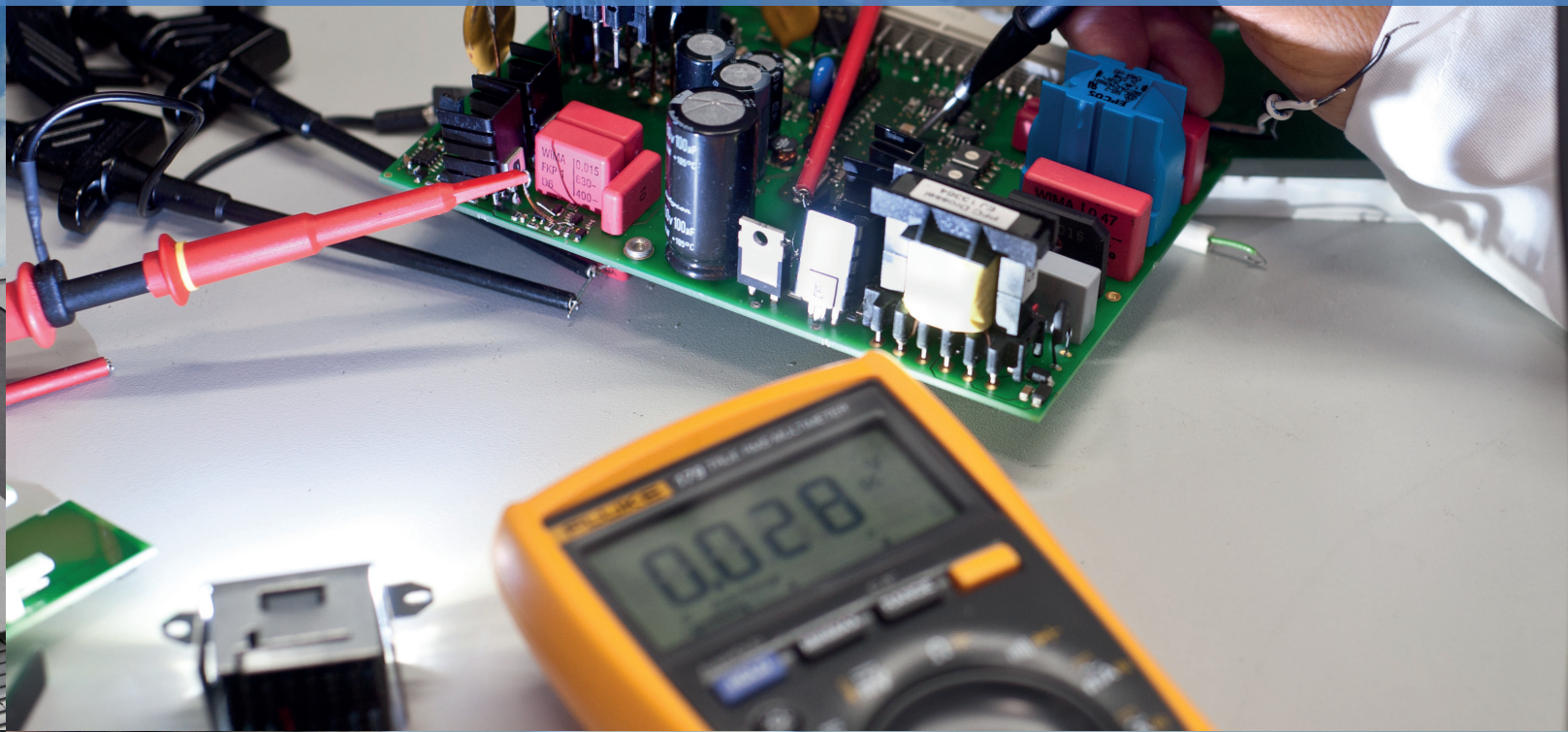
A handwritten signature in blue ink, reading "Helmut Gessler".

Helmut Gessler

Research & development



All product lines have been developed internally.
Our design engineers are dedicated to precision and innovation.



Production facilities



Our recipe for success: A comprehensive quality strategy covering the entire value chain – from development and production to sales and on-site services.



Logistics center



Gessler provides quality products and systems made in Germany – custom-engineered for shopping malls, skyscrapers, airports, schools and many other facilities.



References



A photograph of the A-Rosa Grand-Spa Resort, a large white building with a dark roof and a prominent wooden balcony, situated on a green lawn. In the background, there are lush green hills and a body of water in the foreground.

A-Rosa Grand-Spa Resort

Kitzbühel, Austria

Surrounded by the Tyrolean mountains on manorial land, the Grand Spa Resort A-Rosa Kitzbühel offers stunning alpine scenery. The view of the picturesque panorama including the Hahnenkamm Streif robs breath and senses. In addition to the “European Property Award” awarded in London in the “Best Hotel Construction & Design” category for architecture, the 3,000 square-meter wellness area was recently awarded the “SPA Diamond Award”. The claim of the architects and electrical planners was to subtly subordinate the emergency lighting to the architecture, and we accepted this challenge gladly and successfully implemented it. The operators rely on Gessler central battery systems “Made in Germany”.

A photograph of the Frankfurt city skyline at night, showing illuminated buildings and streets. The Opera Tower is visible among the other structures.

OpernTurm

Frankfurt am Main, Germany

The Opera Tower symbolizes the international reputation of Frankfurt city.

Where economy and culture meet, the landmark of the financial metropolis rises next to the Old Opera. In an exclusive city center location, the Opera Tower provides its users with office space catering to international standards. It was one of the first office high-rise buildings in Europe certified according to the U.S. EPA LEED (Leadership in Energy and Environmental Design) Gold standard. On 42 floors and standing 170 meters tall, the building offers a total of 66,000 square meters of high-quality office and retail space. Two units with 74 substations supply the 4,000 monitored luminaires from Gessler.

THE SQUAIRE is an architectural masterpiece with a connection to Frankfurt Airport and direct access to the largest motorway hub in Europe. The 660 meter long and nine floor (45 meters) high building was built over the railway station. In addition to 140,000 square meters of retail space, the building is the new home to a 5-star hotel spanning 34,000 square meters, and an accounting firm occupying 30,000 square meters. In addition, 93,000 square meters of offices and a catering area extending over more than 5,700 square meters are part of the building. Gessler central battery systems supply and monitor 30 substations and over 300 distributions fed by NEA. In total, 6,500 exit sign and emergency lighting luminaires are in place for highest security.

The Square

Frankfurt am Main, Germany





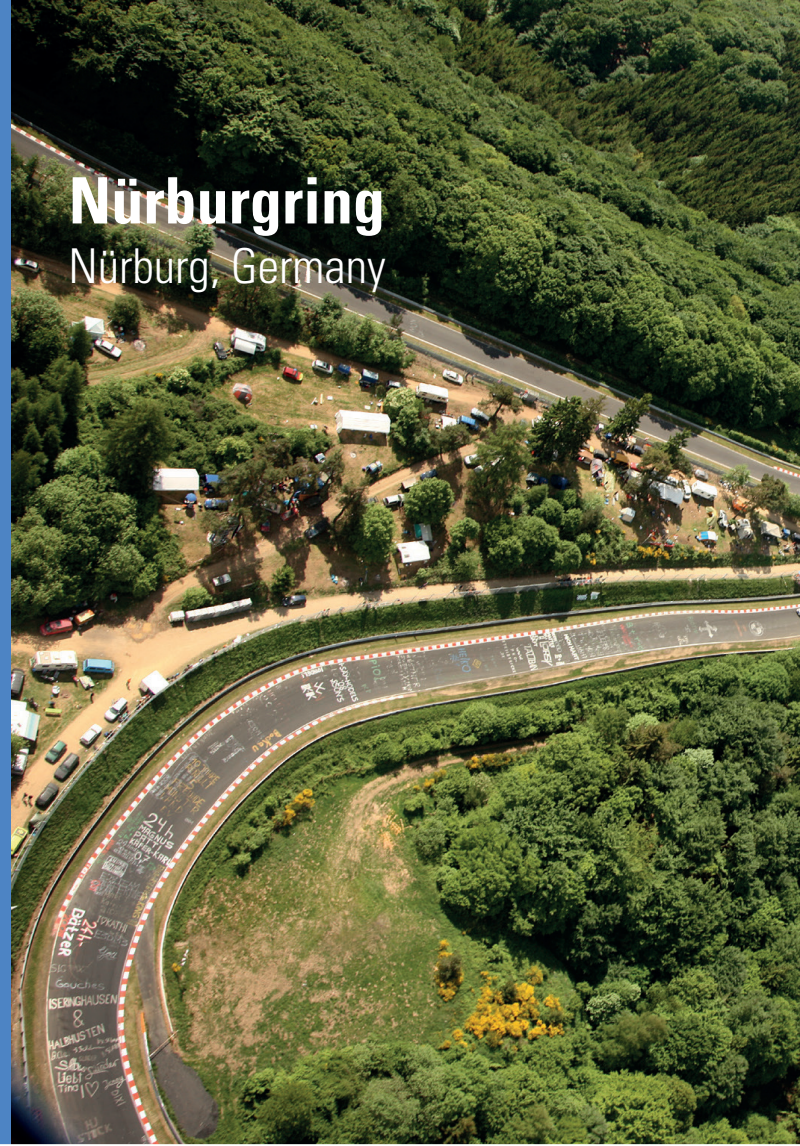
Zwinger Dresden, Germany



The Zwinger in Dresden, located right in the center of the city, is one of the best known Rococo palaces in Germany. Apart from the iconic Frauenkirche, it is probably the most famous historic building in Dresden.

Designed by the court architect Matthäus Daniel Pöppelmann and the sculptor Balthasar Permoser is one of the landmark Baroque buildings in Germany, combining architecture, sculpture and painting into a Gesamtkunstwerk. Today, the Zwinger houses the Old Masters Picture Gallery, the Royal Cabinet of Mathematical and Physical Instruments, the Dresden Porcelain Collection and an armory. The operators of the Zwinger rely on a DC system with emergency lighting luminaires from Gessler.

The longest race track in Europe opened in 1927, originally was the approximately 28 km long legendary "mountain, racing and testing route". In the course of the 2009 Nürburgring project, the world of experience building and the parking space were demolished and the area around the Nürburgring expanded. Among other things, the Nürburgring is the venue of the famous "Rock am Ring" music festival, which attracts around 80,000 visitors annually. The new grandstand can accommodate 5,000 people. At the top is the VIP lounge with space for 600 people. Gessler exit sign luminaires and emergency lighting luminaires are supplied by five central battery systems and guarantee optimum security standards for the Nürburgring race track.



Nürburgring
Nürburg, Germany

Commerzbank Arena

Frankfurt am Main, Germany

The Commerzbank Arena was erected at the site of its great predecessor - the legendary Frankfurt Waldstadion ("forest stadium"), which opened in 1925, and has since the been re-erected for the 2006 Soccer World Cup as a pure soccer stadium within a construction time of three years. At a capacity of 51,500 spectators, it is the tenth largest soccer stadium in Germany. Four central battery systems and twenty substations guarantee maximum security at all escape and rescue routes.





Mercedes-Benz Museum

Stuttgart, Germany

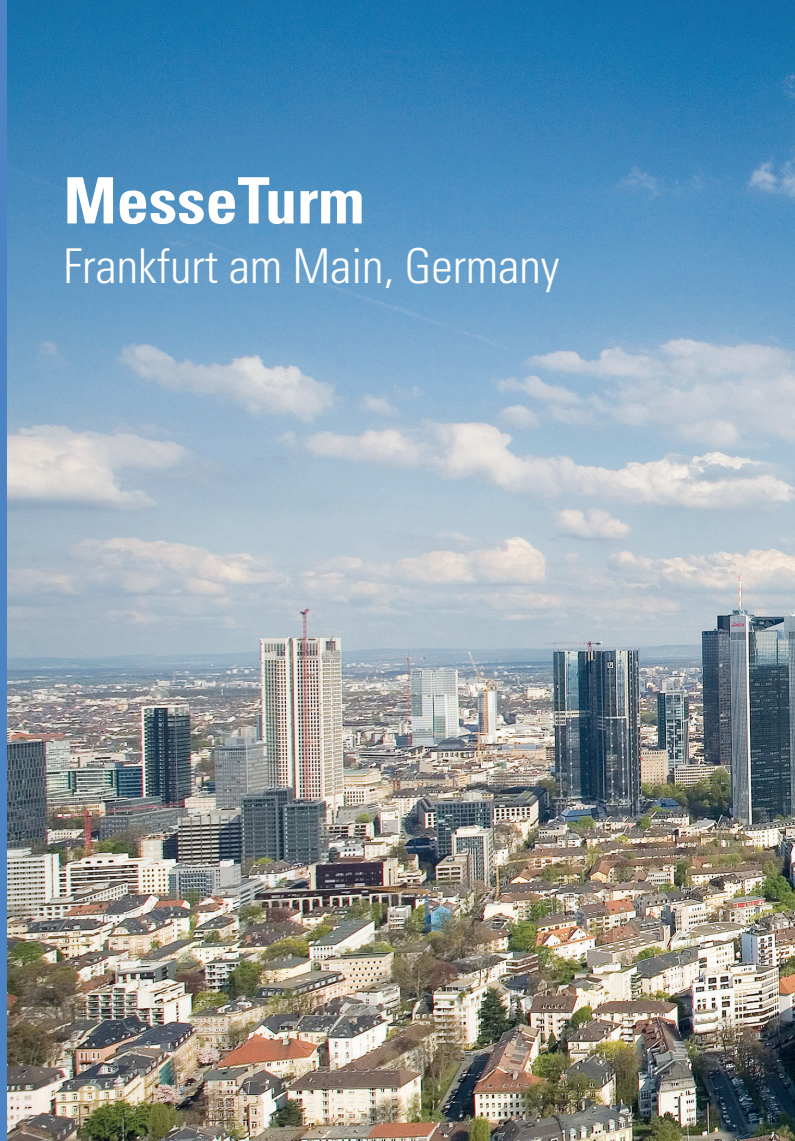


The award-winning architecture of the Mercedes-Benz Museum is home to the heritage of the Mercedes-Benz brand. On nine levels covering 16,500 square meters in floor space, 160 stunning cars from over 125 years of automotive history are presented. This project was realized with particular inventiveness together with the engineering firm, Electrical Werner Schwarz GmbH. As requested by the architect, LED exit sign luminaires were mounted flush into the wall without encircling shadows. In the foyer of the building, Gessler luminaires were realized on thin steel wires with a length of four meters to give a “floating” appearance.

The MesseTurm (trade fair tower) is one of the true classics when it comes to skyscrapers heralding a new era in Frankfurt's high-rise architecture. At a total height of 257 meters, the trade fair tower is home to the highest offices in Germany; spanning 63 floors, they cover a total area of almost 62,000 square meters. The trade fair tower was awarded the silver award of the label Leadership in Energy and Environmental Design (LEED), an honor that was celebrated until October 20, 2012 with illumination in green. Its architectural structure is reminiscent of an ancient column with a strong base, slender height, and a distinctive pyramid peak. This gives the tower timeless elegance at an international level. Gessler exit sign luminaires and emergency lighting luminaires provide for a maximum of security in this impressive building.

MesseTurm

Frankfurt am Main, Germany





Fritz-Walter-Stadion

Kaiserslautern, Germany



The myth of Betzenberg lives on! For Bundesliga fans, the Fritz-Walter-Stadion is not just another football stadium. It is the venue where players and supporters battle side by side in a spirit that is not to be found anywhere else. Supporters of other clubs come to Kaiserslautern to soak up the unique atmosphere that dominates this sports venue located high above the city. Known as „Betzenberg fortress“, the stadium is named after Fritz Walter, the captain of the World Cup winning team from 1954. The Fritz-Walter-Stadion became known worldwide during the World Cup 2006 when Kaiserslautern hosted four first round fixtures as well as a last-sixteen round match. Gessler escape sign & emergency lighting luminaires for the 49,780-seat stadium makes sure that supporters can feel safe at all times.



Sustainability

Green Buildings



Emergency lighting luminaires made by Gessler can contribute to LEED certification points.

Gessler was the world's first manufacturer to produce emergency and exit sign luminaires that comply with LEED credit requirements.

Environmental protection is one of the biggest issues that affects the entire world. Climate change is a global concern and mankind's greatest challenge. It is beyond doubt that we have to use the Earth's natural resources wisely. In response to increased awareness of environmental matters, a thriving forward-looking green building industry has emerged.

By adopting green construction strategies, property owners and planners face new challenges. In order to be able to assess the sustainability of green buildings, certified standards and a rating system are required. Developed by the U.S. Green Building Council LEED, or Leadership in Energy & Environmental Design, provides building owners and operators with a concise framework for identifying and implementing practical and measurable green building design, construction, operations, and maintenance solutions.

**LEED certified
product:**



DISPLAY VISION
Page 27

U.S. Green Building Council – U.S. GBC

The U.S. Green Building Council (U.S. GBC) is a not-for-profit organization established by leading representatives of the construction industry, promoting green construction for affordable buildings that enhance the life quality of the people who live and work in them.

In order to transform the industry in the direction of green building the U.S. GBC developed the LEED certification program.



Leadership in Energy and Environmental Design - LEED

LEED is an independent certification program for green buildings that guides the design, construction, operations and maintenance and has gained international recognition.

To receive LEED certification, building must projects satisfy prerequisites and earn points to achieve different levels of certification.

Deutsche Bank – Projekt Greentowers

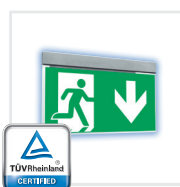
The Greentowers of Deutsche Bank set new standards for green building. With this refurbishment project, which is one of the biggest of its kind in Europe, Deutsche Bank demonstrates its commitment to sustainability and contributes to protecting the climate. Its planning was guided by the LEED system of U.S. GBC.

Energy-optimized, LEED-certified emergency lighting from Gessler fits the project perfectly, as Gessler sign & emergency lighting luminaires won the U.S. GBC Gold Award.



Exit sign luminaires

DISPLAY 9000



24m
centrally supplied
self-contained

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DISPLAY VISION



24m
centrally supplied

Page 27

LUMINA 2000/16



29m
centrally supplied
self-contained

Page 29

FLATLIGHT FL1



30m
centrally supplied
self-contained

Page 31

DISPLAY 2200



22m
centrally supplied
self-contained

Page 32

DISPLAY 2000/G3



24m
self-contained

Page 33

DISPLAY 3000/G1



12m
centrally supplied
self-contained

Page 37

DISPLAY 3000/G6 -/F6



24m
centrally supplied
self-contained

Page 38

DISPLAY 3000/G5



31m
centrally supplied
self-contained

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LUMINA 2000/24



30m
centrally supplied
self-contained

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Exit sign cube WA3



52m
centrally supplied
self-contained

Page 49

Exit sign cube WK2 / WK3



39m / 59m
centrally supplied
self-contained

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LUMINA 2000/12



30m
centrally supplied
self-contained

Page 54

LUMINA 2000/1



16m
centrally supplied
self-contained

Page 55

LUMINA 2000/26



38m
centrally supplied

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**DISPLAY
2000/G4**



24m
centrally supplied

Page 34

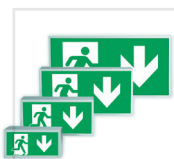
**DISPLAY
2000/G7**



31m
centrally supplied
self-contained

Page 35

**LUMINA
2000/5 -/7 -/8 -/17**



18 - 56m
centrally supplied
self-contained

Page 40

**PATHFINDER
VISION 1 & 2**



24m
centrally supplied

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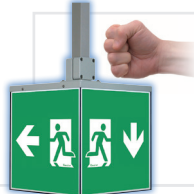
**PATHFINDER
LP7**



27m
centrally supplied

Page 46

**Exit sign cube
BW1**



59m
centrally supplied
self-contained

Page 52

**LED Exit sign
BR1**



38m
centrally supplied
self-contained

Page 53

**LUMINA
2000/27**



38m
centrally supplied
self-contained

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* Please contact local agent for certifications



Type Approved
Safety
Regular Production
Surveillance

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ID 0000049012



Exit sign luminaire DISPLAY 9000

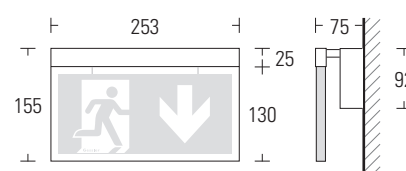
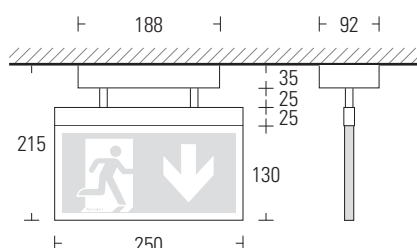
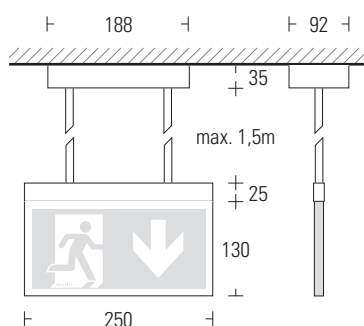
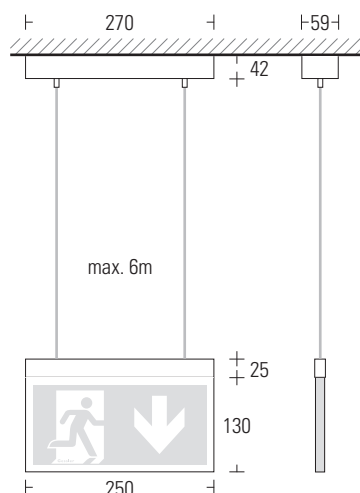
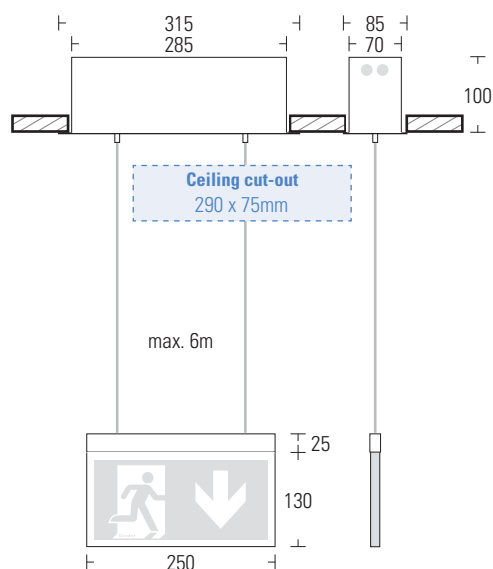
Stylish LED exit sign manufactured in stainless steel



DISPLAY 9000	centrally supplied	
VIEWING DISTANCE	24m	
HOUSING MATERIAL	stainless steel	
SURFACE	brushed	
ILLUMINANT	LED	
LOAD (AC/DC)	5,9VA / 2,8W	
VOLTAGE	230V AC/DC	
NiMH BATTERY	–	
AMBIENT TEMPERATURE	-15°C up to +40°C	
PROTECTION CATEGORY	IP 41	
PROTECTION CLASS	I	
WEIGHT	0,7kg (without pictogram)	



DESIGN PLUS
participate 2012





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Safety
Regular Production
Surveillance

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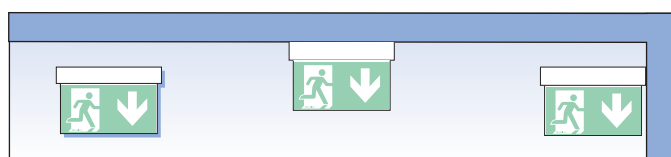
green buildings
*Green Buildings Gold Award
for exit sign luminaire*

Exit sign luminaire DISPLAY VISION

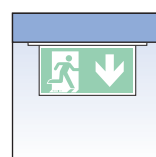
LEED certified universal mounting LED exit sign



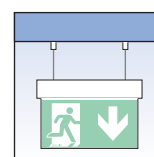
DISPLAY VISION	centrally supplied	self-contained	options
VIEWING DISTANCE	24m		<ul style="list-style-type: none">• recessed ceiling housing• pendulum mounting set• eyelet mounting set• cable mounting set <div><p>incl. pictogram set (PIKSETDV1)</p></div>
HOUSING MATERIAL	polycarbonate		
HOUSING COLOUR	white		
ILLUMINANT	LED		
LOAD (AC/DC)	5,5VA / 2,7W	–	
VOLTAGE	230V AC/DC	230V AC	
NIMH BATTERY	–	4,8V - 0,8Ah	
AMBIENT TEMPERATURE	-15°C up to +40°C		
PROTECTION CATEGORY	IP 41		
PROTECTION CLASS	II		
WEIGHT	0,9kg		



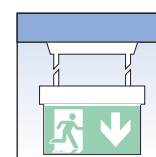
universal housing for wall, ceiling and wall bracket mounting



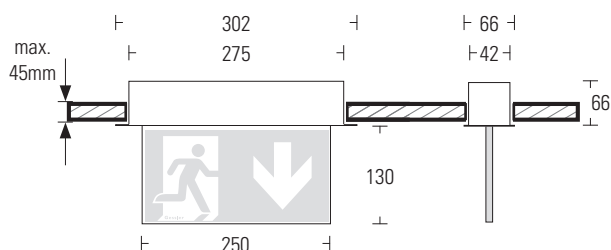
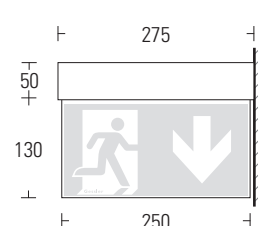
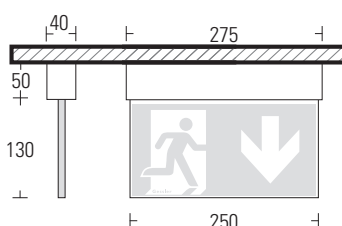
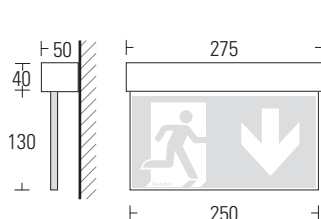
recessed mounting



ear mounting



pendulum mounting



280 x 50mm

ceiling cut-out

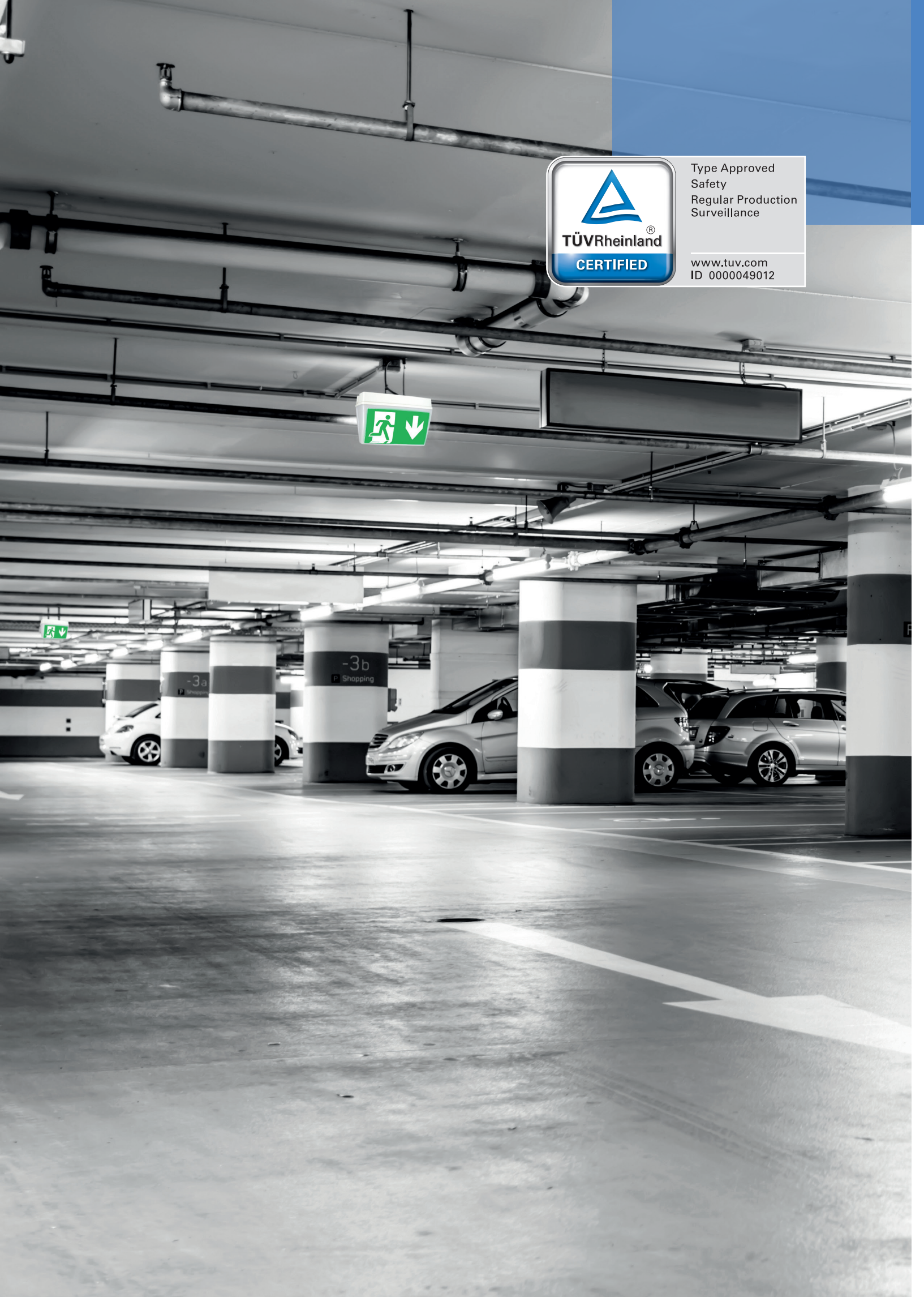


designed by
René Sartorio



Type Approved
Safety
Regular Production
Surveillance

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ID 0000049012

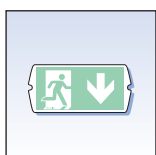


Exit sign luminaire DISPLAY 2000/16

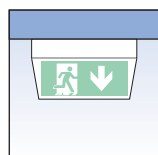
Elegant IP54 rated exit signage with a convex profile



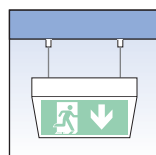
LUMINA 2000/16	centrally supplied	Optiona
VIEWING DISTANCE	wall: 26m / ceiling: 27m	<ul style="list-style-type: none"> external power box ball protection grill
HOUSING MATERIAL	polycarbonate	
HOUSING COLOUR	white	
ILLUMINANT	LED	
LOAD (AC/DC)	7,6VA / 3,6W	
VOLTAGE	230V AC/DC	
NICD BATTERY	–	
AMBIENT TEMPERATURE	-15°C up to +40°C	
PROTECTION CATEGORY	IP 54	
PROTECTION CLASS	I	
WEIGHT	1,2kg	



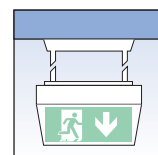
wall mounting



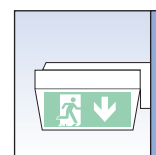
ceiling mounting



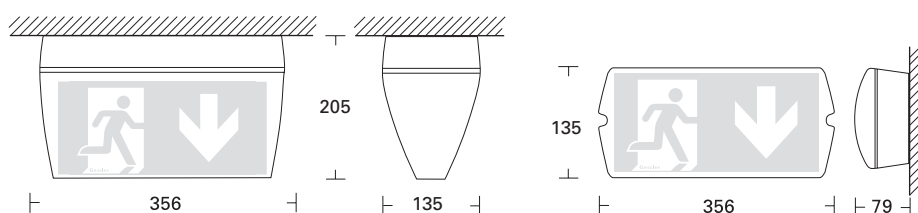
ear mounting



pendulum mounting

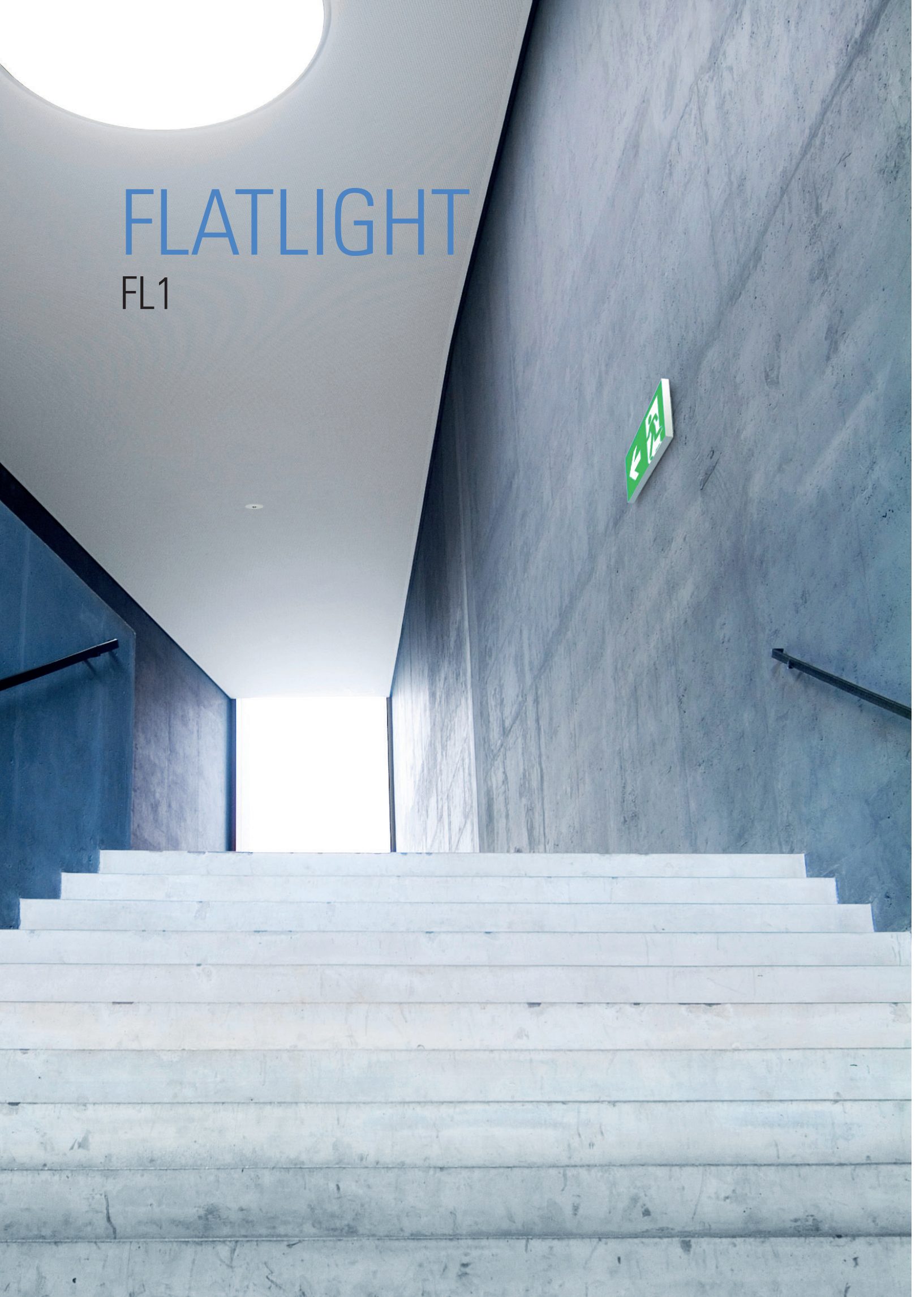


wall bracket mounting



FLATLIGHT

FL1



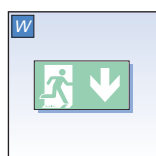


FLATLIGHT FL1

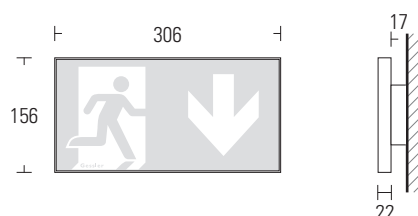
Decorative blade-style LED exit sign
designed for architectural interiors

30m

FLATLIGHT FL1	centrally supplied	self-contained	options
VIEWING DISTANCE	30m		centrally supplied:
HOUSING MATERIAL	aluminum		• monitoring
SURFACE	silver anodized		self-contained:
ILLUMINANT	LED		• auto test
LOAD (AC/DC)	5,9VA / 2,8W	–	
VOLTAGE	230V AC/DC	230V AC	
NIMH BATTERY	–	4,8V - 0,8Ah	
AMBIENT TEMPERATURE	-15°C up to +40°C		
PROTECTION CATEGORY	IP 41		
PROTECTION CLASS	I		incl. pictogram set (IPU/IPR/IPL)



wall mounting



Wall mounting

Wall mounting for attractive
„floating“ look with encircling
shadow.



Luminance according to DIN 4844-1

>500 cd/m²




centrally supplied				self-contained				
without monitoring	with monitoring	DALI monitoring	theater version	1h	3h	8h	auto test	BUS test
•	•	–	–	•	•	–	•	–

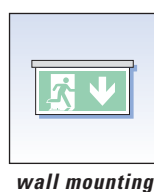
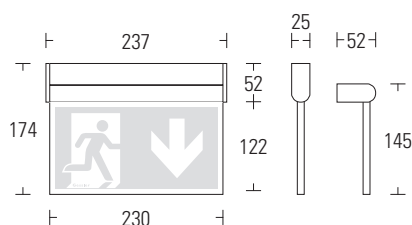


DISPLAY 2200

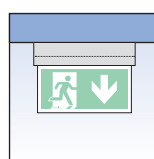
Adjustable discrete LED exit sign



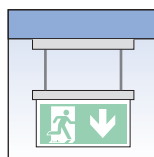
DISPLAY 2200	centrally supplied	self-contained	options
VIEWING DISTANCE	22m		centrally supplied: • monitoring self-contained: • auto test <div>max. 6m</div>
HOUSING MATERIAL	aluminum		
SURFACE	silver anodized		
ILLUMINANT	LED		
LOAD (AC/DC)	5,5VA / 2,7W	–	
VOLTAGE	230V AC/DC	230V AC	
NiMH BATTERY	–	4,8V - 0,8Ah	
AMBIENT TEMPERATURE	-15°C up to +40°C		
PROTECTION CATEGORY	IP 41		
PROTECTION CLASS	I		
			<div> D22-IPU</div> <div> D22-IPL</div> <div> D22-IPR</div>



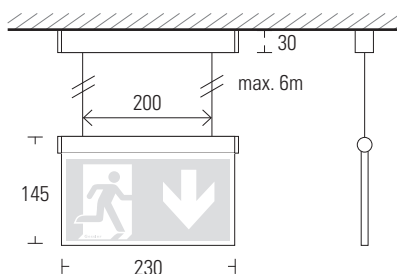
wall mounting



ceiling mounting



rope mounting






centrally supplied				self-contained				
without monitoring	with monitoring	DALI monitoring	theater version	1h	3h	8h	auto test	BUS test
•	–	–	–	•	•	–	•	–

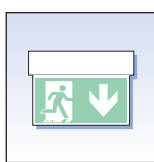


DISPLAY 2000/G3

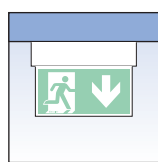
self-contained exit sign
in subtle design

24m

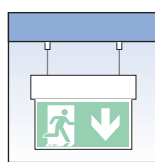
DISPLAY 2000/G3	self-contained	options
VIEWING DISTANCE	24m	<ul style="list-style-type: none"> BUS test auto test ball protection grill stainless steel housing
HOUSING MATERIAL	sheet steel	
SURFACE	RAL 9016 (white)	
ILLUMINANT	LED	
LOAD (AC)	7,6VA	
VOLTAGE	230V AC	
NiCd BATTERY	3,6V - 2,5Ah	
AMBIENT TEMPERATURE	-15°C up to +40°C	
PROTECTION CATEGORY	IP 41	  
PROTECTION CLASS	I	



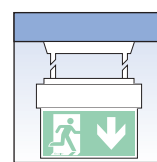
wall mounting



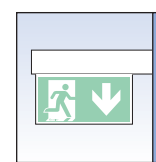
ceiling mounting



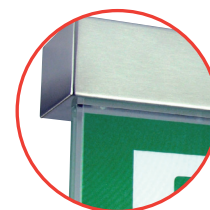
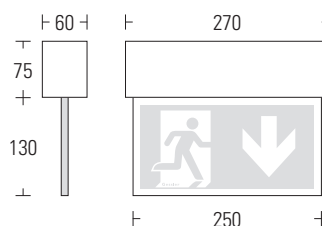
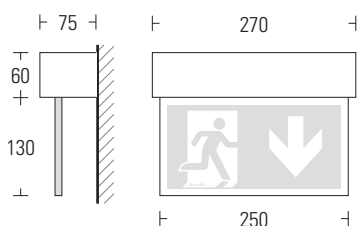
ear mounting



pendulum mounting



wall bracket mounting



Optional:
stainless steel housing

centrally supplied				self-contained				
without monitoring	with monitoring	DALI monitoring	theater version	1h	3h	8h	auto test	BUS test
—	—	—	—	•	•	•	•	•



DISPLAY 2000/G4

centrally supplied IP41 rated
LED exit sign

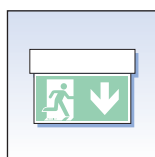
made
in
Germany

green buildings
Green Buildings Gold Award
for exit sign luminaire

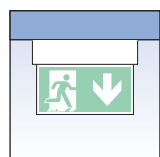


24m

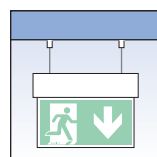
DISPLAY 2000/G4	centrally supplied	options
VIEWING DISTANCE	24m	<ul style="list-style-type: none"> monitoring ball protection grill stainless steel housing <div> DG-250IPU DG-250IPL DG-250IPR </div>
HOUSING MATERIAL	sheet steel	
SURFACE	RAL 9016 (white)	
ILLUMINANT	LED	
LOAD (AC/DC)	7,6VA / 3,6W	
VOLTAGE	230V AC/DC	
AMBIENT TEMPERATURE	-15°C up to +40°C	
PROTECTION CATEGORY	IP 41	
PROTECTION CLASS	I	



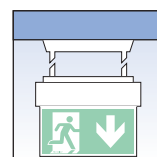
wall mounting



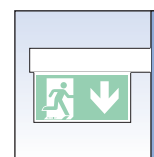
ceiling mounting



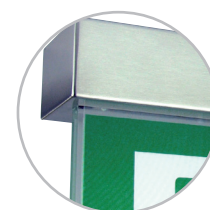
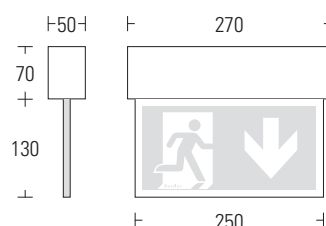
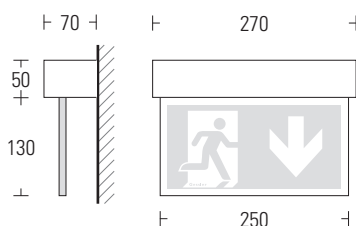
ear mounting



pendulum mounting



wall bracket mounting



Optional:
stainless steel housing



Type Approved
Safety
Regular Production
Surveillance
www.tuv.com
ID: 000049012

* Please contact local agent for certifications

centrally supplied				self-contained				
without monitoring	with monitoring	DALI monitoring	theater version	1h	3h	8h	auto test	BUS test
•	•	—	• Mains operation: dimmed to 10%	—	—	—	—	—

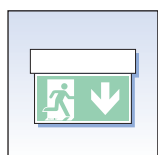


DISPLAY 2000/G7

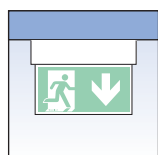
LED exit sign with a
clean simplistic design

31m

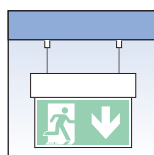
DISPLAY 2000/G7	centrally supplied	self-contained	options
VIEWING DISTANCE	31m		• ball protection grill
HOUSING MATERIAL	sheet steel		• stainless steel housing
SURFACE	RAL 9016 (white)		centrally supplied:
ILLUMINANT	LED		• monitoring
LOAD (AC/DC)	7,6VA / 3,6W	–	self-contained:
VOLTAGE	230V AC/DC	230V AC	• BUS test
NiCd BATTERY	–	3,6V - 2,5Ah	• auto test
AMBIENT TEMPERATURE	-15°C up to +40°C		
PROTECTION CATEGORY	IP 41		
PROTECTION CLASS	I		



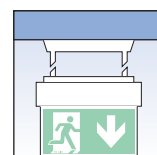
wall mounting



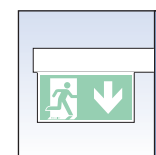
ceiling mounting



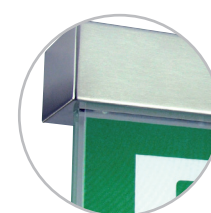
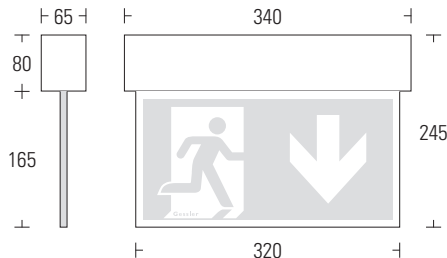
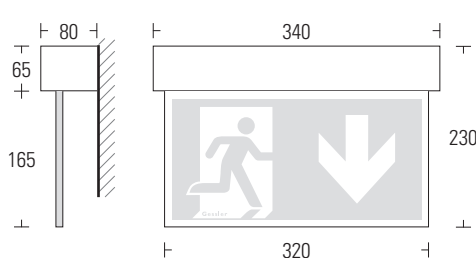
ear mounting



pendulum mounting



wall bracket mounting



Optional:
stainless steel housing

centrally supplied				self-contained				
without monitoring	with monitoring	DALI monitoring	theater version	1h	3h	8h	auto test	BUS test
•	•	•	• Mains operation: dimmed to 10%	•	•	•	•	•

DISPLAY

SERIES 3000



DESIGN PLUS
participate 2012



Type Approved
Safety
Regular Production
Surveillance




www.tuv.com
ID 0000049012

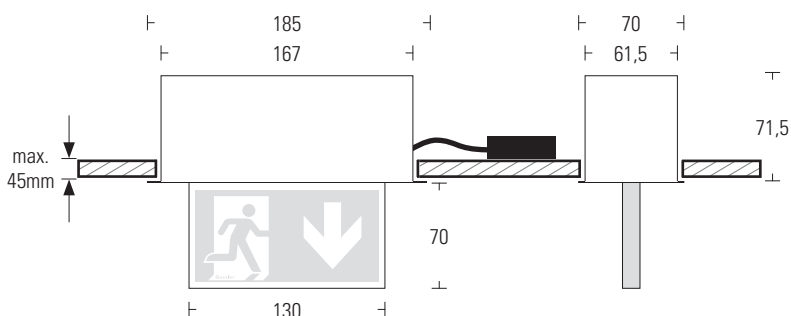


DISPLAY 3000/G1

Straight designed recessed mounting
LED exit sign

12m

DISPLAY 3000/G1	centrally supplied	self-contained	options
VIEWING DISTANCE	12m		<ul style="list-style-type: none">• stainless steel cover• ball protection grill
HOUSING MATERIAL	sheet steel		
SURFACE	RAL 9016 (white)		
ILLUMINANT	LED		
LOAD (AC/DC)	5,4VA / 2,6W	–	
VOLTAGE	230V AC/DC	230V AC	
NiMH BATTERY	–	4,8V - 0,8Ah	
AMBIENT TEMPERATURE	-15°C up to +40°C		
PROTECTION CATEGORY	IP 20		
PROTECTION CLASS	I		
			<div> DG-130IPU</div> <div> DG-130IPL</div> <div> DG-130IPR</div>



Display 3000/G1

Fast and easy installation thanks
to pluggable Wieland gesis® system

centrally supplied				self-contained				
without monitoring	with monitoring	DALI monitoring	theater version	1h	3h	8h	auto test	BUS test
•	•*	–	–	•	•	–	•	–

* only Merlin and Sibelon systems



DISPLAY 3000/G6 3000/F6

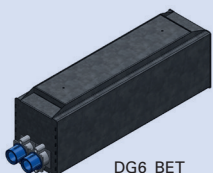
Recessed LED exit sign with a simple and timeless design


made
in
Germany

green buildings
Green Buildings Gold Award
for exit sign luminaire




24m


DISPLAY 3000/G6, -F6	centrally supplied		self-contained	options
VIEWING DISTANCE	24m			<ul style="list-style-type: none">• stainless steel cover• ball protection grill• concrete ceiling box <div><p>DG6_BET</p></div>
HOUSING MATERIAL	sheet steel			
SURFACE	RAL 9016 (white)			
ILLUMINANT	LED			
LOAD (AC/DC)	7,6VA / 3,6W		–	
VOLTAGE	230V AC/DC		230V AC	
NiCd BATTERY	–		3,6V - 2,5Ah	
AMBIENT TEMPERATURE	-15°C up to +40°C			
PROTECTION CATEGORY	IP 20			
PROTECTION CLASS	I			



DG-250IPU



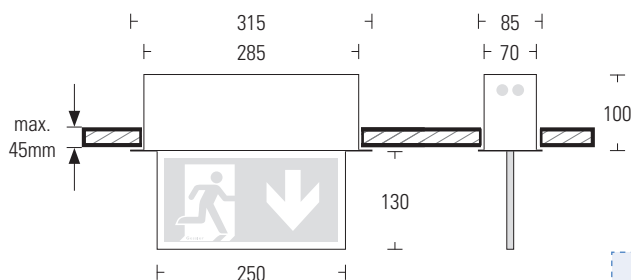
DG-250IPL



DG-250IPR

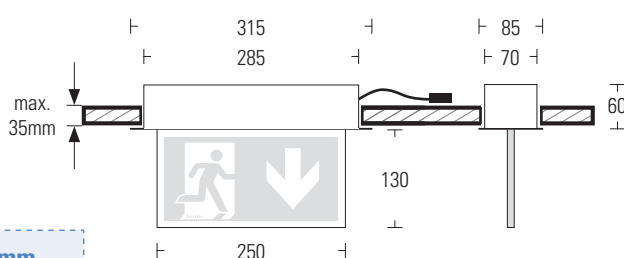
Display 3000/G6

Fast and easy installation
thanks to exposed terminals
including strain relief



Display 3000/F6

Optimized for installation
on ceilings, small installation depth
(centrally supplied only)



290 x 75mm
ceiling cut-out



Connector box for easy installation
with single monitoring element



* Please contact local agent for certifications

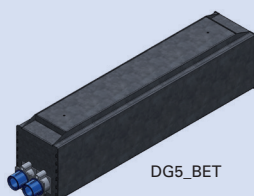
centrally supplied				self-contained				
without monitoring	with monitoring	DALI monitoring	theater version	1h	3h	8h	auto test	BUS test
•	•	•	• Mains operation: dimmed to 10%	•	•	•	•	•




DISPLAY 3000/G5


Straight designed recessed mounting
LED exit sign

31m


DISPLAY 3000/G5	centrally supplied		self-contained	options
VIEWING DISTANCE	31m			<ul style="list-style-type: none">• stainless steel cover• ball protection grill• concrete ceiling box <div><p>DG5_BET</p></div>
HOUSING MATERIAL	sheet steel			
SURFACE	RAL 9016 (white)			
ILLUMINANT	LED			
LOAD (AC/DC)	7,6VA / 3,6W	–		
VOLTAGE	230V AC/DC	230V AC		
NiCd BATTERY	–	3,6V - 2,5Ah		
AMBIENT TEMPERATURE	-15°C up to +40°C			
PROTECTION CATEGORY	IP 20			
PROTECTION CLASS	I			



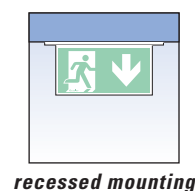
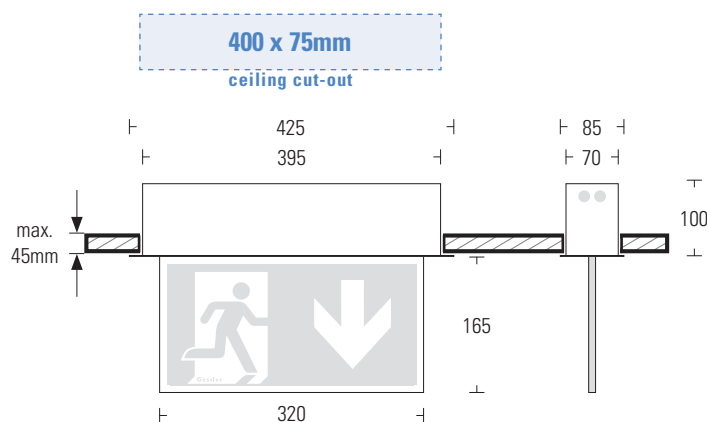
DG-320IPU



DG-320IPL

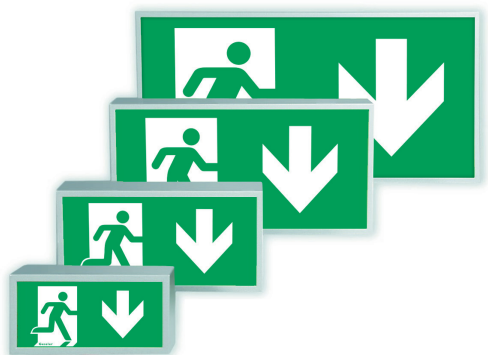


DG-320IPR



Optional:
stainless steel housing

centrally supplied				self-contained				
without monitoring	with monitoring	DALI monitoring	theater version	1h	3h	8h	auto test	BUS test
•	•	•	• Mains operation: dimmed to 10%	•	•	•	•	•



made
in
Germany

LUMINA

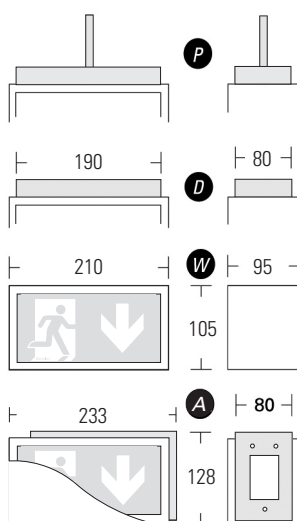
2000/5 - 2000/7 - 2000/8 - 2000/17

LED exit sign in aluminum profile frame

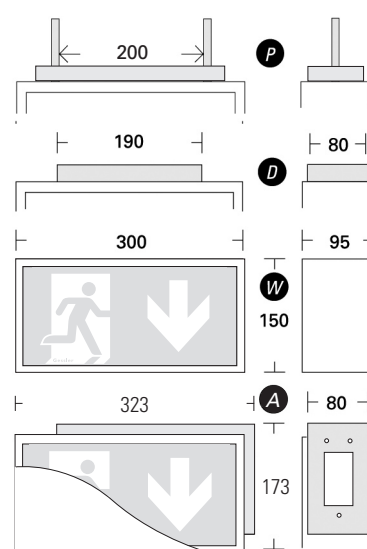
LUMINA	2000/5 EVG	2000/7 EVG	2000/7 Akku
VIEWING DISTANCE	18m	27m	
HOUSING MATERIAL	aluminum	aluminum	
SURFACE	RAL 9016 (white)	RAL 9016 (white)	
ILLUMINANT	LED	LED	
LOAD (AC/DC)	6,2VA / 2,6W	7,6VA / 3,6W	–
VOLTAGE	230V AC/DC	230V AC/DC	230V AC
NiCd BATTERY	–	–	3,6V - 2,5Ah (1h/3h)
AMBIENT TEMPERATURE	-15°C up to +40°C	-15°C up to +40°C	
PROTECTION CATEGORY	IP 40	IP 40	
PROTECTION CLASS	I	I	

centrally supplied			
without monitoring	with monitoring	DALI monitoring	theater version
L05	L05	L05	L05
L07	L07	L07	L07
L08	L08	L08	L08
L17	L17	L17	L17
Mains operation: dimmed to 10%			

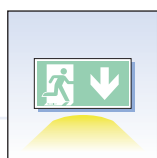
self-contained				
1h	3h	8h	auto test	BUS test
L07	L07	L07	L07	L07
L08	L08	L08	L08	L08
L17	L17	L17	L17	L17



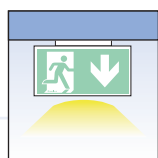
Typ Lumina 2000/5



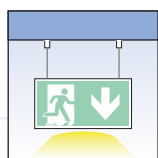
Typ Lumina 2000/7



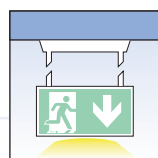
wall mounting



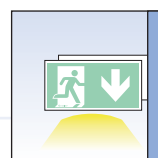
ceiling mounting



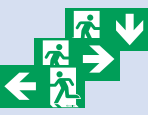
ear mounting

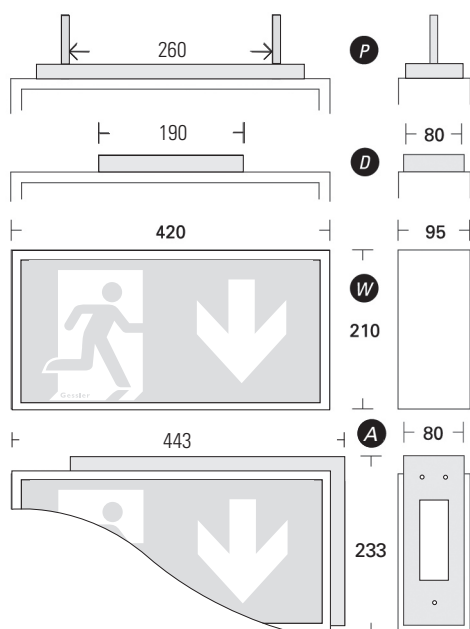


pendulum mounting

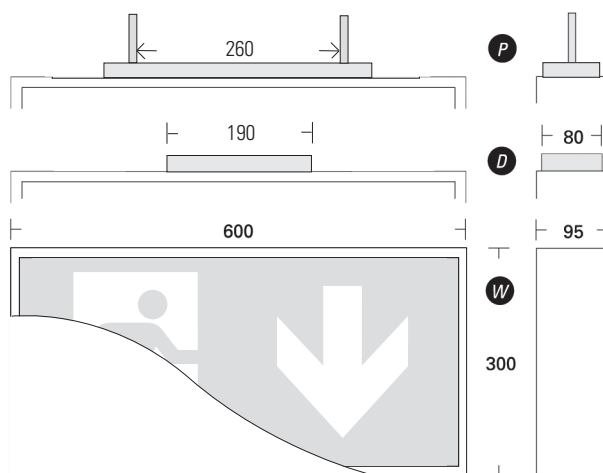


wall bracket mounting

2000/8 EVG	2000/8 Akku	2000/17 EVG	2000/17 Akku	options
38m		56m		<ul style="list-style-type: none"> ball protection grill <p>centrally supplied:</p> <ul style="list-style-type: none"> monitoring <p>self-contained:</p> <ul style="list-style-type: none"> BUS test auto test <p>incl.  pictogram set (IPU/IPR/IPL) (not for Lumina 2000/17)</p>
aluminum		aluminum		
RAL 9016 (white)		RAL 9016 (white)		
LED		LED		
7,6VA / 3,6W	–	10,1VA / 4,5W	–	
230V AC/DC	230V AC	230V AC/DC	230V AC	
–	3,6V - 2,5Ah (1h/3h)	–	3,6V - 4Ah (1h/3h)	
-15°C up to +40°C		-15°C up to +40°C		
IP 40		IP 40		
I		I		



Typ Lumina 2000/8




Typ Lumina 2000/17

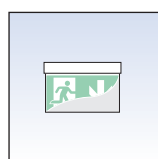


PATHFINDER VISION 1

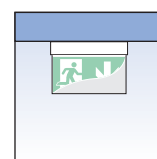
Dynamic LED exit sign
according to DIN 4844

24m

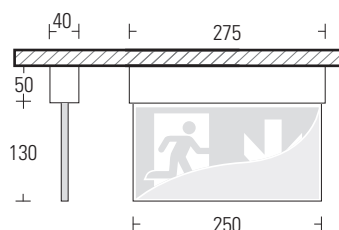
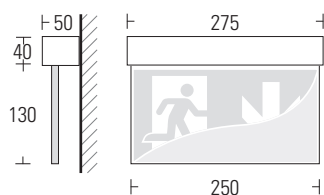
PATHFINDER VISION 1	centrally supplied	options
VIEWING DISTANCE	24m	<ul style="list-style-type: none"> monitoring recessed ceiling housing  <p>incl. pictogram set</p>
HOUSING MATERIAL	polycarbonate	
SURFACE	white	
ILLUMINANT	LED	
LOAD (AC/DC)	5,5VA / 2,7W	
VOLTAGE	230V AC/DC	
NiMH BATTERY	–	
AMBIENT TEMPERATURE	-15°C up to +40°C	
PROTECTION CATEGORY	IP 41	
PROTECTION CLASS	II	



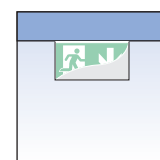
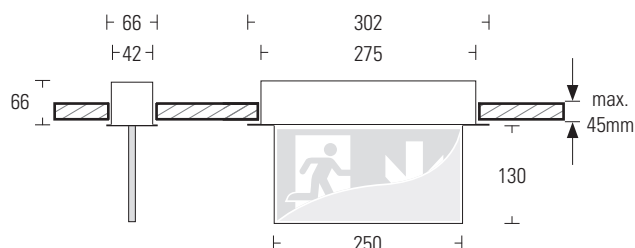
wall mounting



ceiling mounting



280 x 50mm
ceiling cut-out

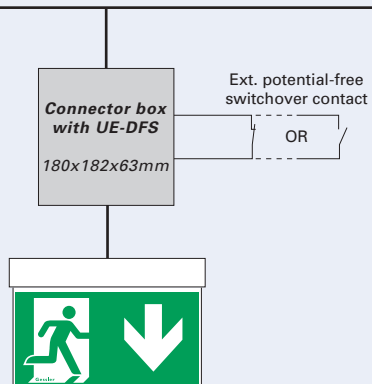


recessed ceiling
mounting

centrally supplied				self-contained				
without monitoring	with monitoring	DALI monitoring	theater version	1h	3h	8h	auto test	BUS test
•	•	–	–	–	–	–	–	–

Scenario 1 – normal situation

DS

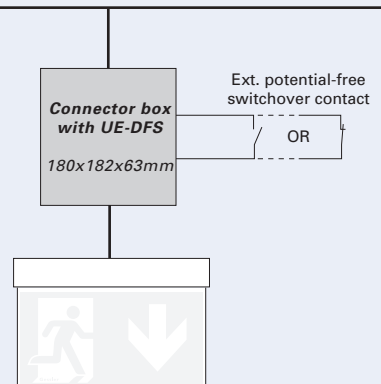


The 1st escape route is indicated by lit luminaires.
The luminaires of the alternative, 2nd escape route are off.



*During normal operation, the Pfadfinder luminaires point the way to the 1st escape route.
The luminaires indicating the 2nd escape route are off.*

Scenario 2 – fire emergency



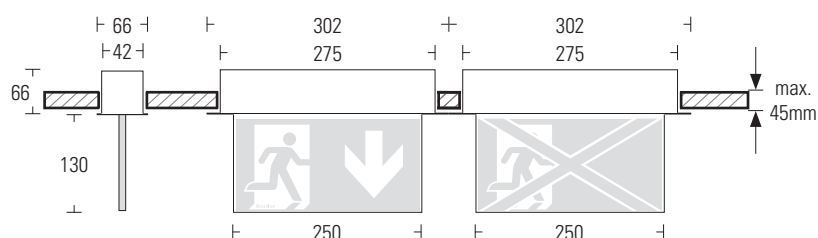
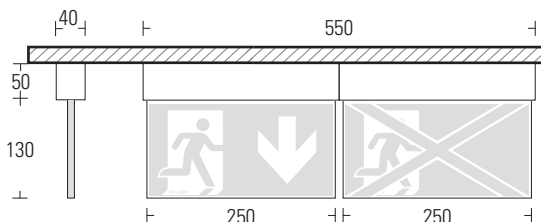
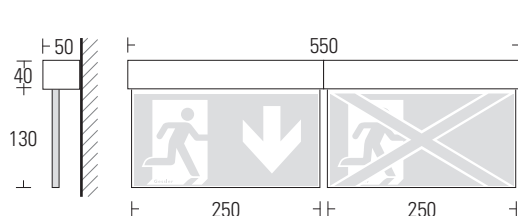
The alternative, 2nd escape route is indicated by lit luminaires.
The luminaires of the 1st escape route are switched off.



*If the fire alarm system is triggered, the Pfadfinder luminaires guide people in the building to safety, indicating the alternative, 2nd escape route.
In the danger zone, the normal, 1st escape route is no longer indicated by luminaires as they are switched off.*

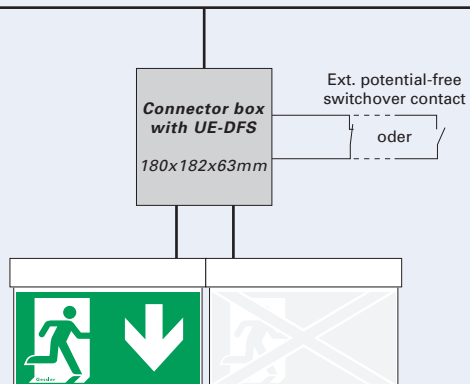
*Dynamic LED exit sign
according to DIN 4844*

incl. pictogram set

44

Scenario 1 – normal situation

DS

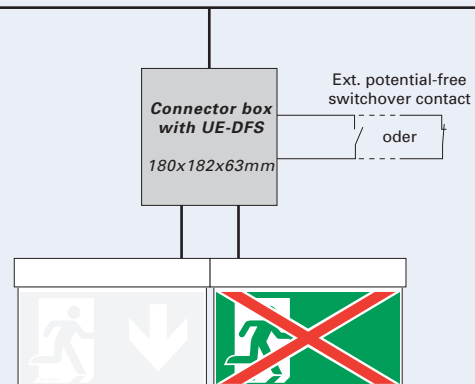


The 1st escape route is indicated by the left display of the Pfadfinder luminaire.
The luminaires indicating the 2nd escape route are off.



*During normal operation, the Pfadfinder luminaires point the way to the 1st escape route.
The luminaires indicating the 2nd escape route are off.*

Scenario 2 – fire emergency



The luminaires indicating the 2nd escape route are switched on through an external switchover contact, which switches off the signs for the 1st escape route.







*If the fire alarm system is triggered, the Pfadfinder luminaires guide people in the building to safety, indicating the alternative, 2nd escape route.
In the danger zone, the normal, 1st escape route is no longer indicated by luminaires as they are switched off.*

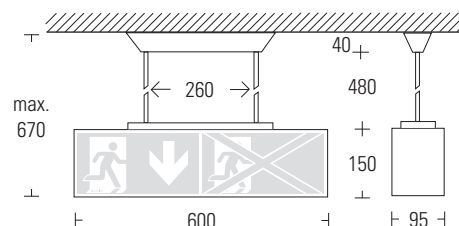
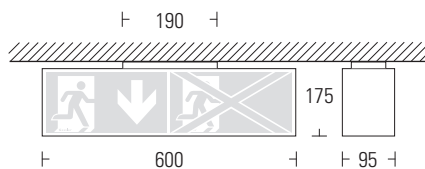


PATHFINDER LP7

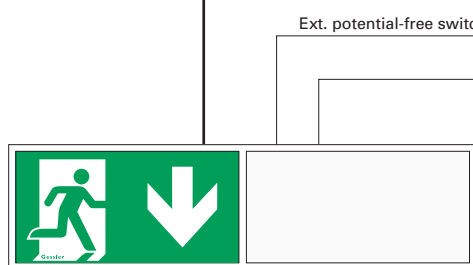
Dynamic LED exit sign

27m

PATHFINDER LP7	centrally supplied	options
VIEWING DISTANCE	27m	<ul style="list-style-type: none"> monitoring <div>  LP7-IPU  LP7-IPX </div> <div>  LP7-IPL  LP7-IPR </div>
HOUSING MATERIAL	aluminum	
SURFACE	RAL 9016 (white)	
ILLUMINANT	LED	
LOAD (AC/DC)	14,4VA / 7,1W	
VOLTAGE	230V AC/DC	
AMBIENT TEMPERATURE	-15°C up to +40°C	
PROTECTION CATEGORY	IP 40	
PROTECTION CLASS	I	

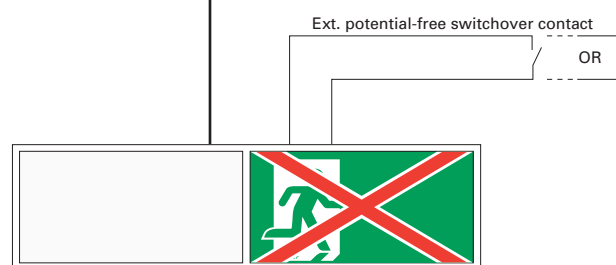


DS



Normal scenario

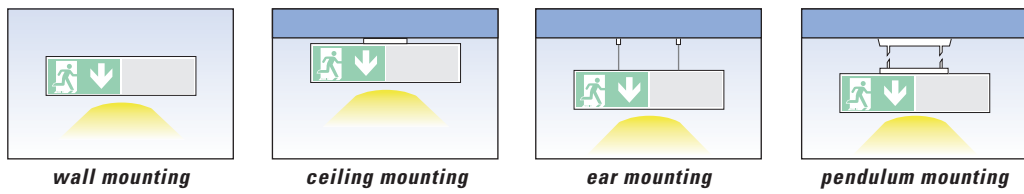
The 1st escape route is indicated by the left display of the Pfadfinder luminaire. The luminaires indicating the 2nd escape route are off.



Fire emergency

The luminaires indicating the 2nd escape route are switched on through an external switchover contact, which switches off the signs for the 1st escape route.

centrally supplied				self-contained				
without monitoring	with monitoring	DALI monitoring	theater version	1h	3h	8h	auto test	BUS test
•	–	–	–	–	–	–	–	–



Scenario 1 – normal situation



*During normal operation, the Pfadfinder luminaires point the way to the 1st escape route.
The luminaires indicating the 2nd escape route are off.*

Scenario 2 – fire emergency




*If the fire alarm system is triggered, the Pfadfinder luminaires guide people in the building to safety,
indicating the alternative, 2nd escape route. In the danger zone, the normal, 1st escape route is
no longer indicated by luminaires as they are switched off.*

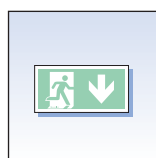


LUMINA 2000/24

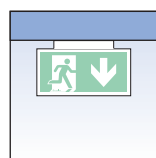
Tough IP54 rated exit sign intended to be used in dry or damp locations

30m

LUMINA 2000/24	centrally supplied	self-contained	options
VIEWING DISTANCE	30m		<ul style="list-style-type: none">• ball protection grill <p>centrally supplied:</p> <ul style="list-style-type: none">• monitoring <p>self-contained:</p> <ul style="list-style-type: none">• BUS test• auto test <div><p>incl. pictogram set (IPU/IPL/IPR)</p></div>
HOUSING MATERIAL	aluminum		
SURFACE	RAL 9016 (white)		
ILLUMINANT	LED		
LOAD (AC/DC)	7,6VA / 3,6W	–	
VOLTAGE	230V AC/DC	230V AC	
NiCd BATTERY	–	3,6V - 2,5Ah (1h/3h)	
AMBIENT TEMPERATURE	-15°C up to +40°C		
PROTECTION CATEGORY	IP 54		
PROTECTION CLASS	I		

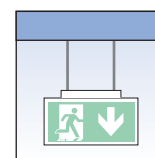


wall mounting

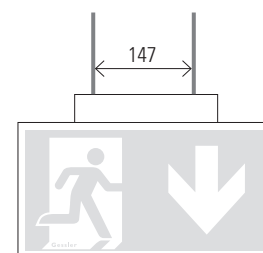
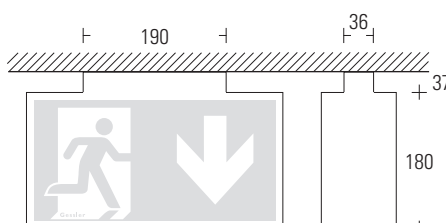
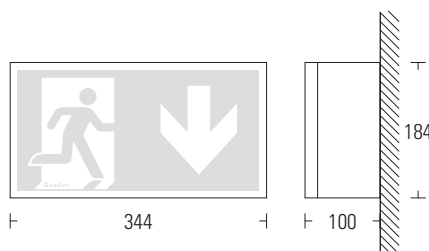


ceiling mounting

With Gessler quick-release mechanism for easy opening/closing of luminaire



ear mounting



centrally supplied				self-contained				
without monitoring	with monitoring	DALI monitoring	theater version	1h	3h	8h	auto test	BUS test
•	•	•	• Mains operation: dimmed to 10%	•	•	•	•	•

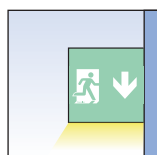


ALU cube WA3

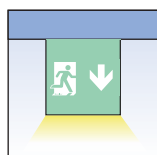
Exit sign cube with
anodized aluminum edges

52m

ALU-cube WA3	centrally supplied	self-contained	options
VIEWING DISTANCE	52m		<ul style="list-style-type: none">• ball protection grill centrally supplied: <ul style="list-style-type: none">• monitoring self-contained: <ul style="list-style-type: none">• BUS test• auto test
HOUSING MATERIAL	aluminum		
SURFACE	silver anodized		
ILLUMINANT	LED		
LOAD (AC/DC)	10,1VA / 4,5W	–	
VOLTAGE	230V AC/DC	230V AC	
NiCd BATTERY	–	3,6V - 2,5Ah/4Ah (1h/3h)	
AMBIENT TEMPERATURE	-15°C up to +40°C		
PROTECTION CATEGORY	IP 41		
PROTECTION CLASS	I		



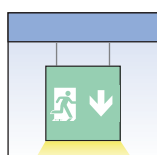
wall mounting



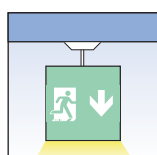
ceiling mounting



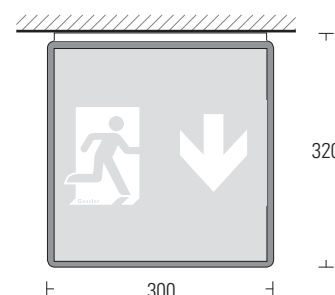
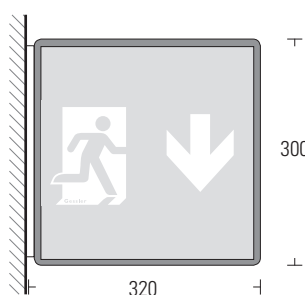
Special model designed for Frankfurt Trade Fair Center hall 3 - cube with 0.8m sides



ear mounting



pendulum mounting



centrally supplied				self-contained				
without monitoring	with monitoring	DALI monitoring	theater version	1h	3h	8h	auto test	BUS test
•	•	•	• Mains operation: dimmed to 10%	•	•	•	•	•

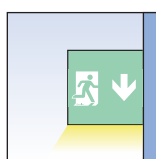


Exit sign cube WK2

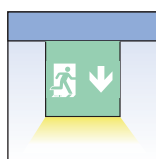
Acrylic LED exit sign cube

39m

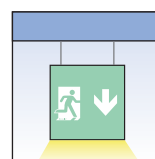
Exit sign cube WK2	centrally supplied	self-contained	options
VIEWING DISTANCE	39m		<ul style="list-style-type: none">ball protection grill centrally supplied: <ul style="list-style-type: none">monitoring self-contained: <ul style="list-style-type: none">BUS testauto test
HOUSING MATERIAL	acrylic glass		
SURFACE	opal		
ILLUMINANT	LED		
LOAD (AC/DC)	10,1VA / 4,5W	–	
VOLTAGE	230V AC/DC	230V AC	
NiCd BATTERY	–	3,6V - 2,5Ah/4Ah (1h/3h)	
AMBIENT TEMPERATURE	-15°C up to +40°C		
PROTECTION CATEGORY	IP 40 (optional IP 54)		
PROTECTION CLASS	I		



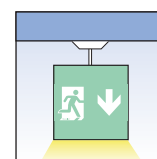
wall mounting



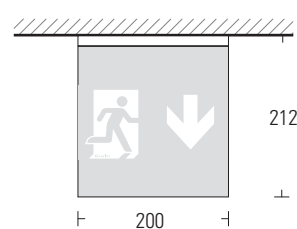
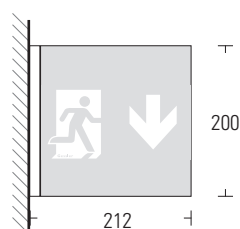
ceiling mounting



ear mounting



pendulum mounting



centrally supplied				self-contained				
without monitoring	with monitoring	DALI monitoring	theater version	1h	3h	8h	auto test	BUS test
•	•	•	• Mains operation: dimmed to 10%	•	•	•	•	•

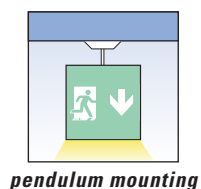
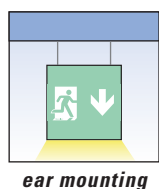
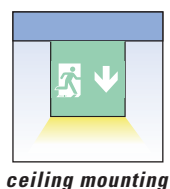


Exit sign cube WK3

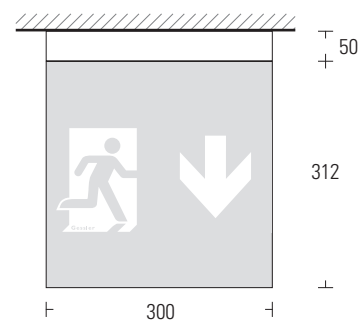
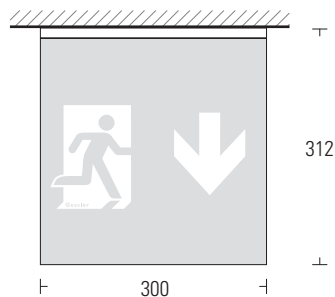
Acrylic LED exit sign cube

59m

Exit sign cube WK3	centrally supplied		self-contained	options
VIEWING DISTANCE	59m			<ul style="list-style-type: none">illumination > 500cd/m²ball protection grill <p>centrally supplied:</p> <ul style="list-style-type: none">monitoring <p>self-contained:</p> <ul style="list-style-type: none">BUS testauto test
HOUSING MATERIAL	acrylic glass			
SURFACE	opal			
ILLUMINANT	LED			
LOAD (AC/DC)	10,1VA / 4,5W	–		
VOLTAGE	230V AC/DC	230V AC		
NiCd BATTERY	–	3,6V - 2,5Ah/4Ah (1h/3h)		
AMBIENT TEMPERATURE	-15°C up to +40°C			
PROTECTION CATEGORY	IP 40 (optional IP 54)			
PROTECTION CLASS	I			



Optional:
Cube cover luminance > 500cd/m²
(white contrast color) thanks to high-power
LED technology, installed in WK3 base



Luminance according to DIN 4844-1
>500 cd/m²

centrally supplied				self-contained				
without monitoring	with monitoring	DALI monitoring	theater version	1h	3h	8h	auto test	BUS test
•	•	•	• Mains operation: dimmed to 10%	•	•	–	•	•

BW1 / BR1

Vandal proof LED exit sign





Exit sign cube BW1

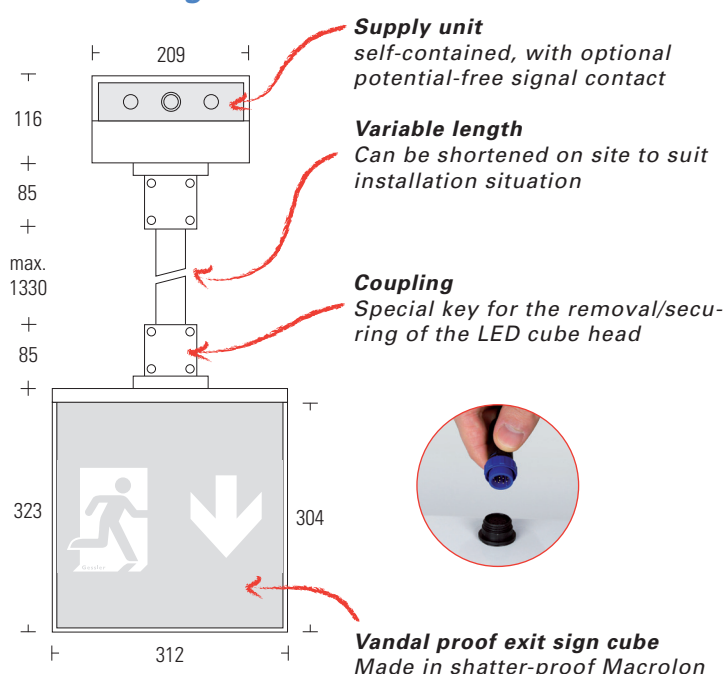
Vandal proof LED exit sign cube
intended to be used in public areas

59m

Exit sign cube BW1	centrally supplied	self-contained	options
VIEWING DISTANCE	59m		centrally supplied:
HOUSING MATERIAL	Makrolon • sheet steel		• monitoring
SURFACE	RAL 7035		self-contained:
ILLUMINANT	LED		• BUS test
LOAD (AC/DC)	18,0VA / 13,5W	–	• auto test
VOLTAGE	230V AC/DC	230V AC	
NiCd BATTERY	–	2 x 3,6V - 2,5Ah	
AMBIENT TEMPERATURE	-15°C up to +40°C		
PROTECTION CATEGORY	IP 54		
PROTECTION CLASS	II		



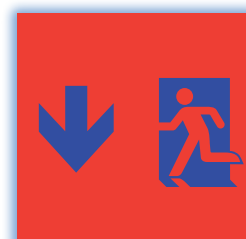
Intelligent design:



Impact resistant and vandal proof!



Luminance
500 cd/m²



centrally supplied				self-contained				
without monitoring	with monitoring	DALI monitoring	theater version	1h	3h	8h	auto test	BUS test
•	•	–	–	•	–	–	•	•

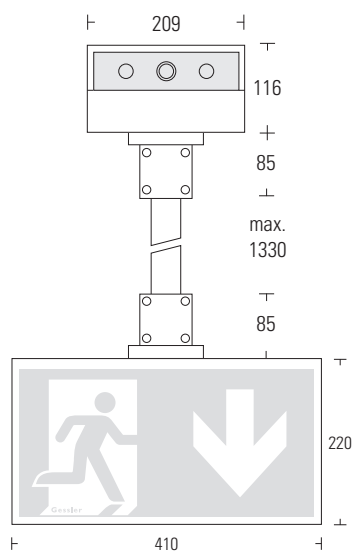
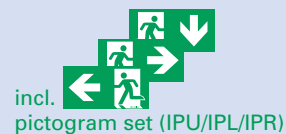


RZ luminaire BR1

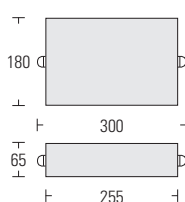
Vandal proof LED exit sign
intended to be used in public areas

38m

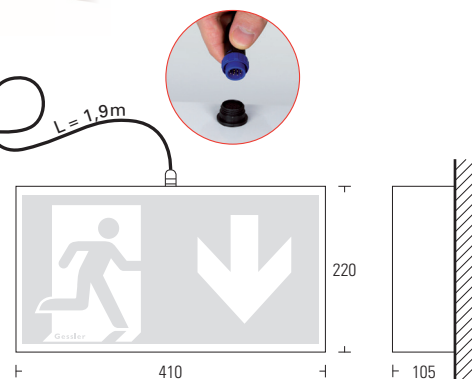
RZ luminaire BR1	centrally supplied	self-contained	options
VIEWING DISTANCE	38m		centrally supplied:
HOUSING MATERIAL	sheet steel		• monitoring
SURFACE	RAL 9016 (white)		self-contained:
ILLUMINANT	LED		• BUS test
LOAD (AC/DC)	12,0VA / 5,5W	–	• auto test
VOLTAGE	230V AC/DC	230V AC	
NiCd BATTERY	–	2 x 3,6V - 2,5Ah	
AMBIENT TEMPERATURE	-15°C up to +40°C		
PROTECTION CATEGORY	IP 54		
PROTECTION CLASS	II		



Impact resistant
and vandal proof!



Supply unit
self-contained, with optional
potential-free signal contact



Luminance
500 cd/m²




centrally supplied				self-contained				
without monitoring	with monitoring	DALI monitoring	theater version	1h	3h	8h	auto test	BUS test
•	•	–	–	•	–	–	•	•

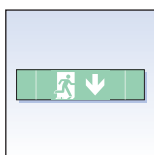


LUMINA 2000/1

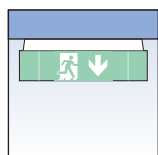
LED exit sign in polycarbonate housing
with universal mounting

16m

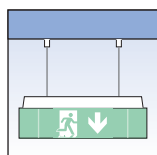
LUMINA 2000/1	centrally supplied	self-contained	options
VIEWING DISTANCE	16m		<ul style="list-style-type: none">ball protection grill <p>centrally supplied:</p> <ul style="list-style-type: none">monitoring <p>self-contained:</p> <ul style="list-style-type: none">BUS testauto test <div><div> L01-IPU</div><div> L01-IPL</div><div> L01-IPR</div></div>
HOUSING MATERIAL	polycarbonate		
SURFACE	white		
ILLUMINANT	LED		
LOAD (AC/DC)	7,6VA / 3,6W	–	
VOLTAGE	230V AC/DC	230V AC	
NiCd BATTERY	–	3,6V - 2,5Ah	
AMBIENT TEMPERATURE	-15°C up to +40°C		
PROTECTION CATEGORY	IP 44		
PROTECTION CLASS	I		



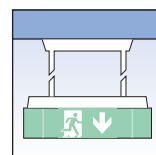
wall mounting



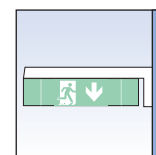
ceiling mounting



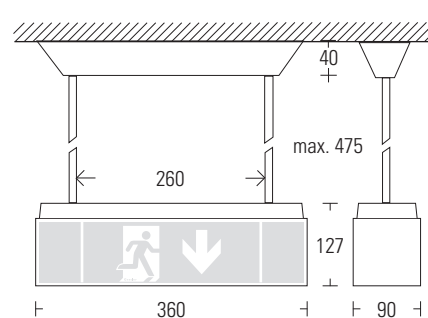
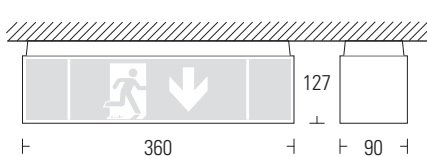
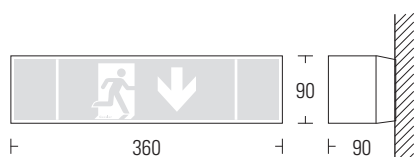
ear mounting



pendulum mounting



wall bracket mounting




centrally supplied				self-contained				
without monitoring	with monitoring	DALI monitoring	theater version	1h	3h	8h	auto test	BUS test
•	•	•	• Mains operation: dimmed to 10%	•	•	•	•	•



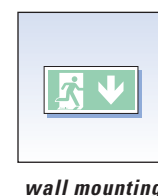
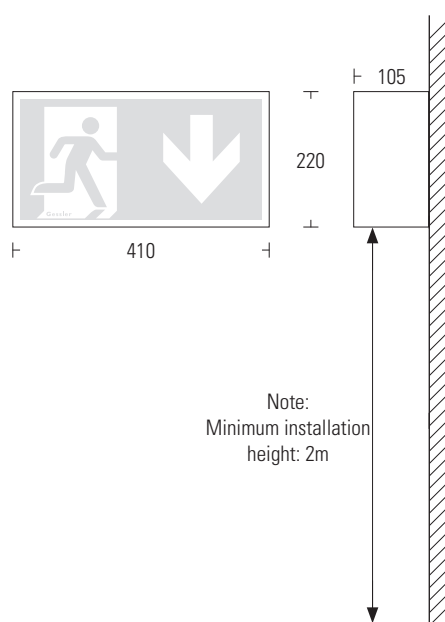
LUMINA 2000/26

Wall-mounted impact-resistant
LED exit sign

38m

LUMINA 2000/26	centrally supplied	options
VIEWING DISTANCE	38m	<ul style="list-style-type: none"> monitoring  <p>incl. pictogram set (IPU/IPL/IPR)</p>
HOUSING MATERIAL	sheet steel	
SURFACE	RAL 9016 (white)	
ILLUMINANT	LED	
LOAD (AC/DC)	12,0VA / 5,5W	
VOLTAGE	230V AC/DC	
AMBIENT TEMPERATURE	-15°C up to +40°C	
PROTECTION CATEGORY	IP 54	
PROTECTION CLASS	I	

**Designed for installation
in sports halls.**
Suitable for sports facilities



centrally supplied				self-contained				
without monitoring	with monitoring	DALI monitoring	theater version	1h	3h	8h	auto test	BUS test
•	•	•	• Mains operation: dimmed to 10%	—	—	—	—	—

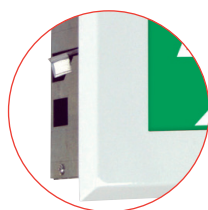
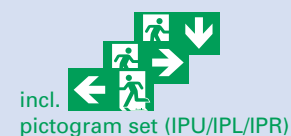


LUMINA 2000/27

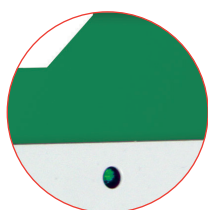
Wall recessed mounted LED exit sign
with high impact-resistant steel body

38m

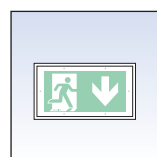
LUMINA 2000/27	centrally supplied	self-contained	options
VIEWING DISTANCE	38m		centrally supplied:
HOUSING MATERIAL	sheet steel		• monitoring
SURFACE	RAL 9016 (white)		self-contained:
ILLUMINANT	LED		• BUS test
LOAD (AC/DC)	12,0VA / 5,5W	–	• auto test
VOLTAGE	230V AC/DC	230V AC	
NiCd BATTERY	–	3,6V - 4Ah	
AMBIENT TEMPERATURE	-15°C up to +40°C		
PROTECTION CATEGORY	IP 40		
PROTECTION CLASS	I		



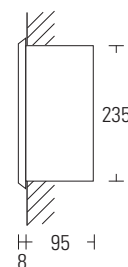
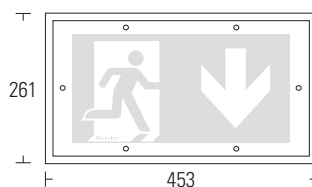
Easy to install thanks to
height-adjustable fixture
clamps



Model L27: self-contained
with LED status indicator



recessed mounting



240x430x95mm
(HxBxT)

wall cut-out

**Designed for installation
in sports halls.**
Suitable for sports facilities



centrally supplied				self-contained				
without monitoring	with monitoring	DALI monitoring	theater version	1h	3h	8h	auto test	BUS test
•	•	•	• Mains operation: dimmed to 10%	•	•	–	•	•



Emergency luminaires

**LED spot
LA5**

centrally supplied



Page 60

**LED spot
LA6**

centrally supplied



Page 62

**LED spot
LS5**

centrally supplied



Page 64

**STARLIGHT
A20**

centrally supplied
self-contained



Page 71

**STARLIGHT
S1**

centrally supplied
self-contained



Page 72

**STARLIGHT
S4**

centrally supplied



Page 74

**LED spot
LF3**

centrally supplied



Page 78

**LED spot
LB3**

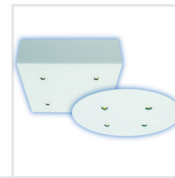
centrally supplied



Page 79

**LED spot
LS4**

centrally supplied
self-contained



Page 80

**High power spotlight
TS1**

centrally supplied



Page 84

**High performance spotlight
ST1**

centrally supplied



Page 85

**DELIGHT
D2**

centrally supplied
self-contained



Page 86

**Longlight
L36 / L58**

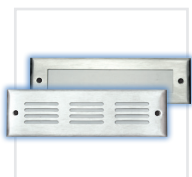
centrally supplied
self-contained



Page 90

**SUB-LED
SL1**

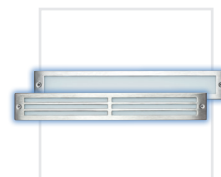
centrally supplied



Page 91

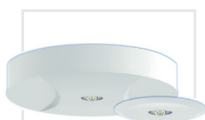
**LED-MASTER
LM3**

centrally supplied



Page 92

**LED spot
LS6**



centrally supplied



Page 66

**LUMINA
2000/16**



*centrally supplied
self-contained*



Page 68

**LED spot
LS1**



*centrally supplied
self-contained*



Page 75

**LS1 diffusor
ICE-CAP**



Page 76

**LED spot
LS3**



centrally supplied



Page 77

**PRIMUS
PS4**



centrally supplied

Page 81

**LED spot
SATURN**



centrally supplied

Page 82

**LUMINA
2000/1**



*centrally supplied
self-contained*



Page 83

**LED-MASTER
LM1**



*centrally supplied
self-contained*

Page 87

**LED-MASTER
LM4**



*centrally supplied
self-contained*

Page 88

**LED-MASTER
LM5**



*centrally supplied
self-contained*

Page 89

NVG



Page 93

HSW-V2



Page 94

**Twin Spot
NLS**



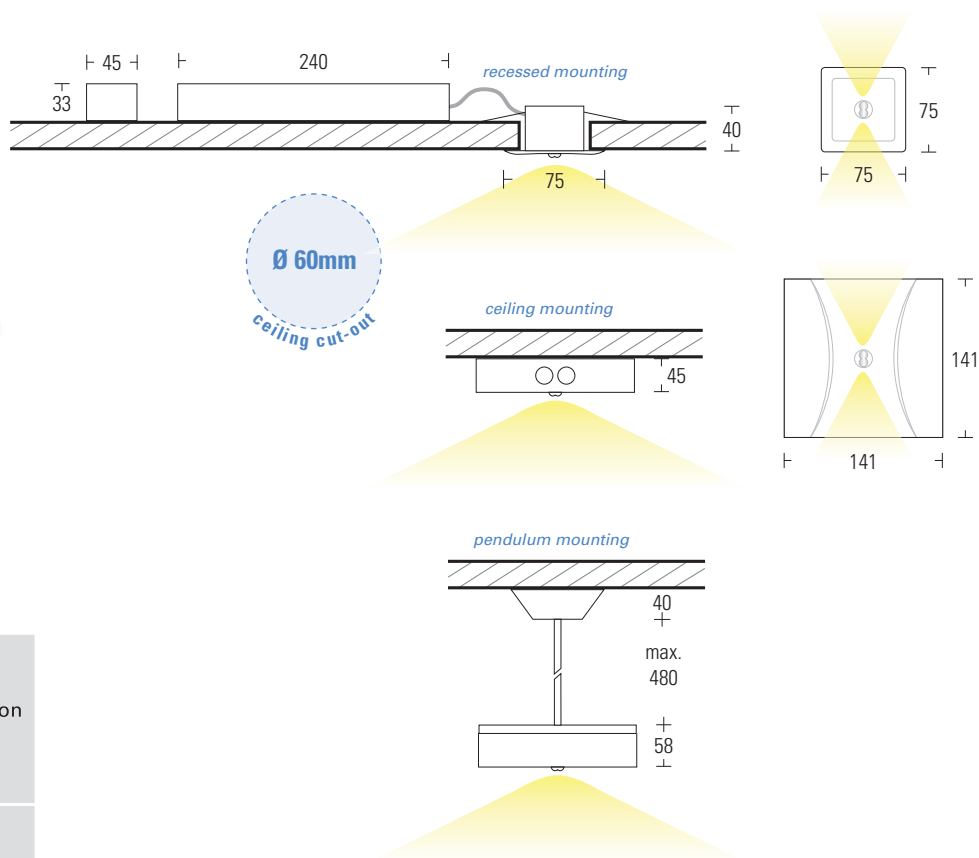
Page 95

* Please contact local agent for certifications

LED spot LA5

High performance LED luminaire
suitable for recessed or surface mounting

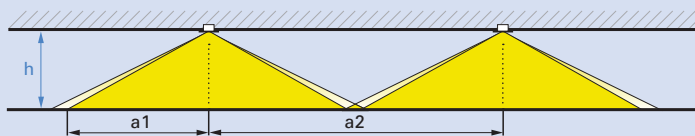
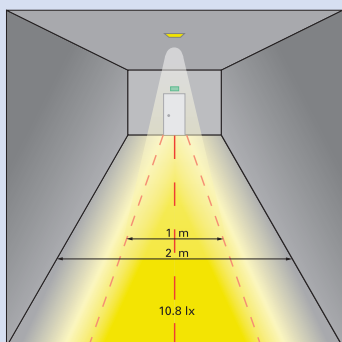
LED spot LA5	centrally supplied	options
HOUSING MATERIAL	sheet steel	<ul style="list-style-type: none"> special colors on request pendulum mounting set
HOUSING COLOUR	RAL 9016 (white)	
ILLUMINANT	LED (220lm)	
LOAD (AC/DC)	7,25VA / 4,0W	
VOLTAGE	230V AC/DC	
AMBIENT TEMPERATURE	-15°C up to +40°C	
PROTECTION CATEGORY	recessed: IP 20 / ceiling: IP 40	
PROTECTION CLASS	I	



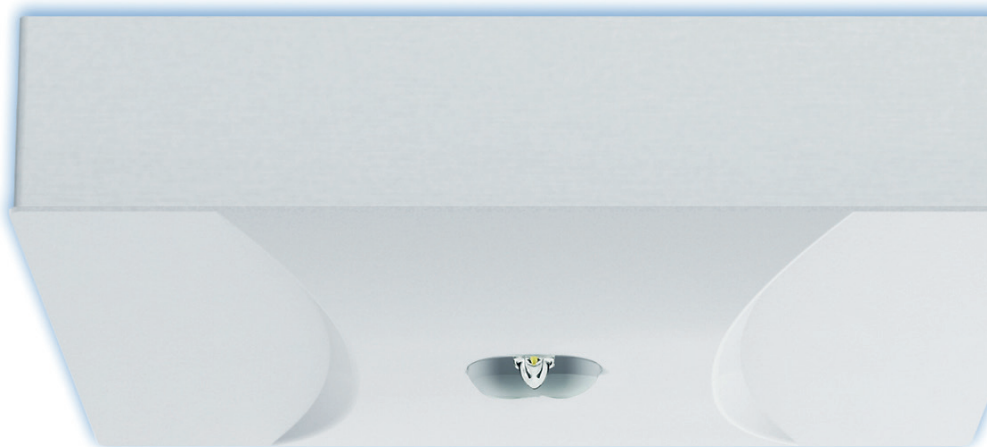
Original size



EN 1838 4.2.1



h [m] height	a1 [m]	a2 [m]
2.00	1.00	7.75
2.25	1.00	6.25
2.50	1.00	4.25
2.75	0.50	2.25
3.00	–	–



Gessler 



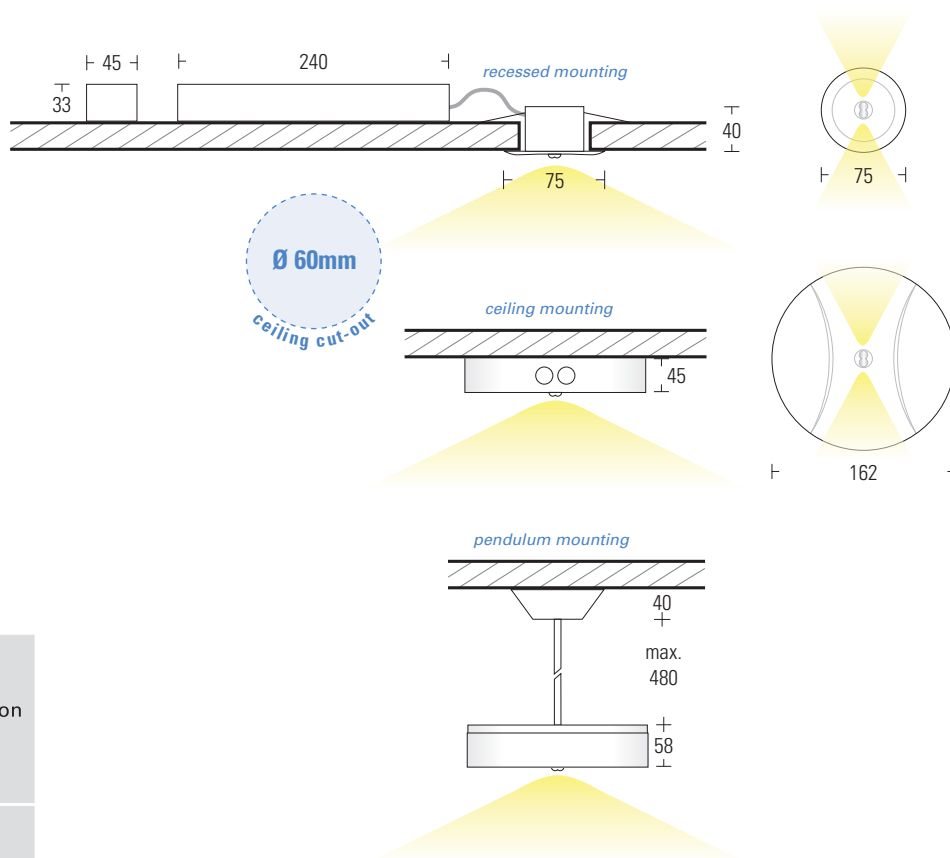
LED spot LA6

Discrete LED based luminaire designed to illuminate the escape routes

LED spot LA6	centrally supplied	options
HOUSING MATERIAL	sheet steel	<ul style="list-style-type: none"> special colors on request pendulum mounting set
HOUSING COLOUR	RAL 9016 (white)	
ILLUMINANT	LED (220lm)	
LOAD (AC/DC)	7,25VA / 4,0W	
VOLTAGE	230V AC/DC	
AMBIENT TEMPERATURE	-15°C up to +40°C	
PROTECTION CATEGORY	recessed: IP 20 / ceiling: IP 40	
PROTECTION CLASS	I	



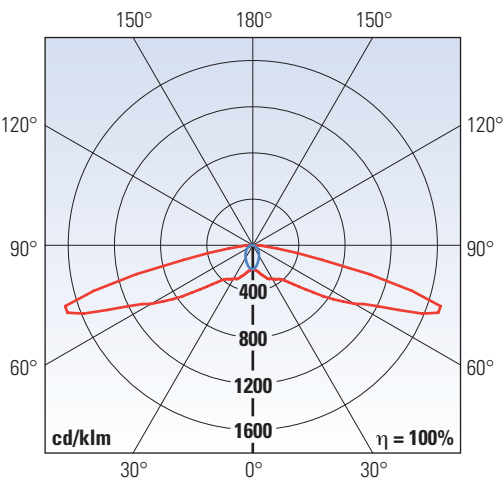
Original size



Photometric data



Eulumdat file at www.gessler.de



EN 1838 4.2.1

10,8 lx

h

a1

a2

1 m

2 m

10,8 lx

h [m] height	a1 [m]	a2 [m]
2.00	1.00	7.75
2.25	1.00	6.25
2.50	1.00	4.25
2.75	0.50	2.25
3.00	—	—

Original size

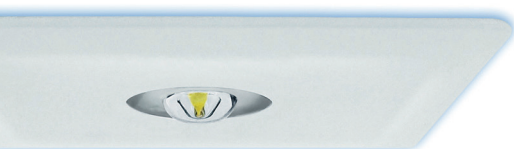
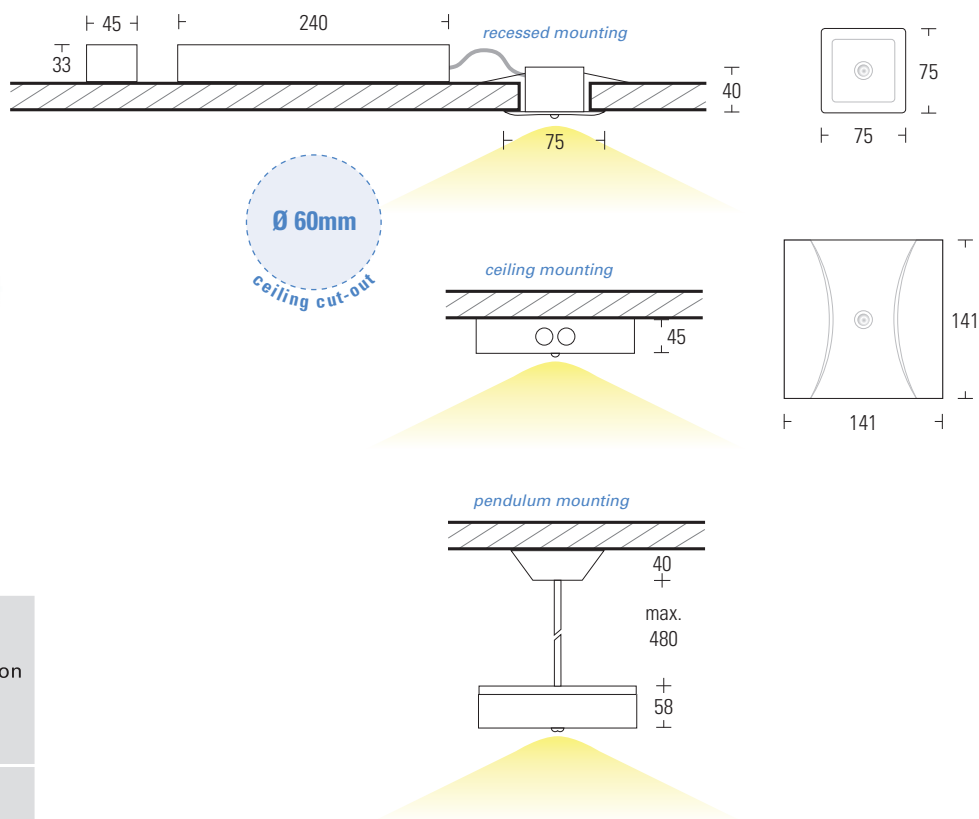
Gessler

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LED spot LS5

High performance LED luminaire for the illumination of escape areas

LED spot LS5	centrally supplied	options
HOUSING MATERIAL	sheet steel	<ul style="list-style-type: none"> special colors on request pendulum mounting set
HOUSING COLOUR	RAL 9016 (white)	
ILLUMINANT	LED (220lm)	
LOAD (AC/DC)	7,25VA / 4,0W	
VOLTAGE	230V AC/DC	
AMBIENT TEMPERATURE	-15°C up to +40°C	
PROTECTION CATEGORY	recessed: IP 20 / ceiling: IP 40	
PROTECTION CLASS	I	



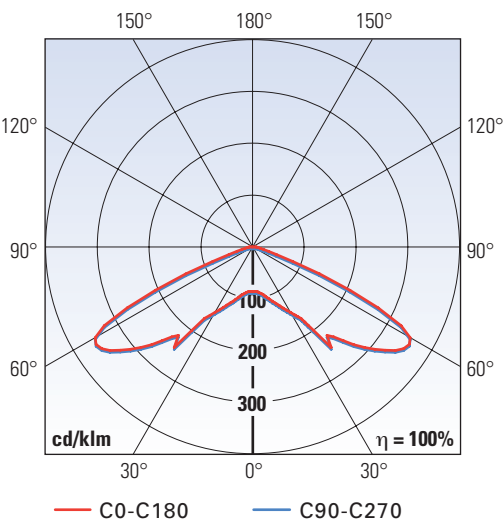
Original size



Photometric data



Eulumdat file at www.gessler.de



Illumination of escape routes		EN 1838 4.2.1	
	h [m] height	a1 [m]	a2 [m]
	2.00	3.75	9.00
	2.50	4.25	10.50
	3.00	4.50	11.75
	3.50	4.75	12.25
	4.00	4.25	10.00
	4.50	4.00	7.00



Original size



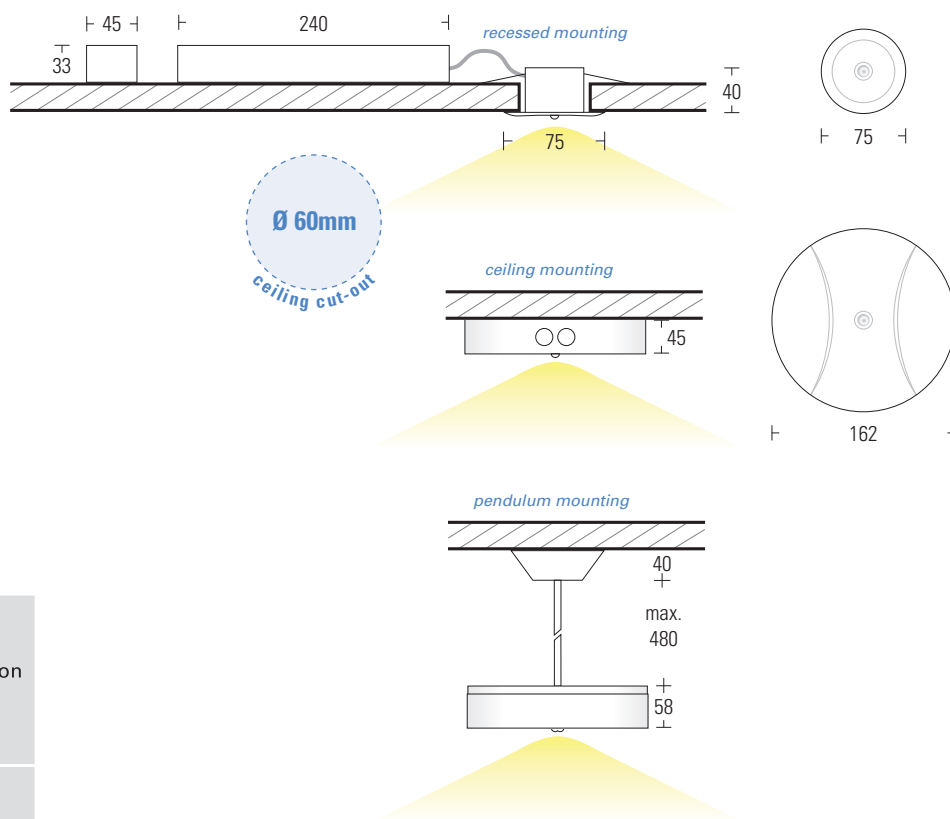
LED spot LS6

High performance luminaire with LED technology for the illumination of escape areas

LED spot LS6	centrally supplied	options
HOUSING MATERIAL	sheet steel	<ul style="list-style-type: none"> special colors on request pendulum mounting set
HOUSING COLOUR	RAL 9016 (white)	
ILLUMINANT	LED (220lm)	
LOAD (AC/DC)	7,25VA / 4,0W	
VOLTAGE	230V AC/DC	
AMBIENT TEMPERATURE	-15°C up to +40°C	
PROTECTION CATEGORY	recessed: IP 20 / ceiling: IP 40	
PROTECTION CLASS	I	



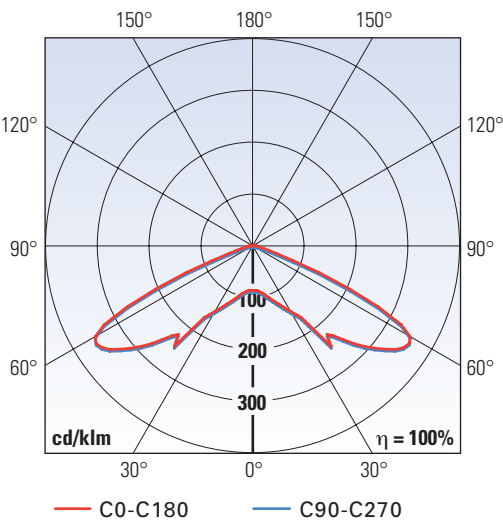
Original size

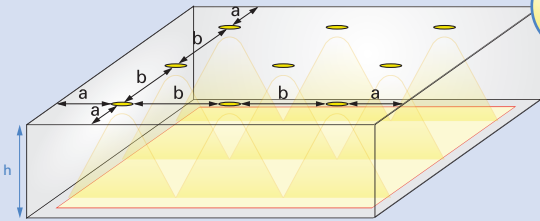


Photometric data



Eulumdat file at www.gessler.de



Illumination of escape routes		EN 1838 4.2.1	
	h [m] height	a1 [m]	a2 [m]
	2.00	3.75	9.00
	2.50	4.25	10.50
	3.00	4.50	11.75
	3.50	4.75	12.25
	4.00	4.25	10.00
	4.50	4.00	7.00



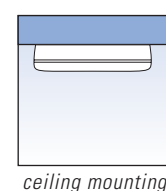
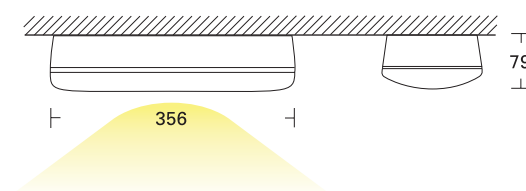
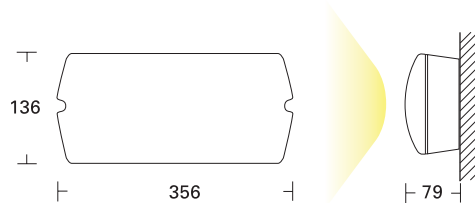
Original size



LUMINA 2000/16

Classy IP54 rated LED luminaire with a convex shape

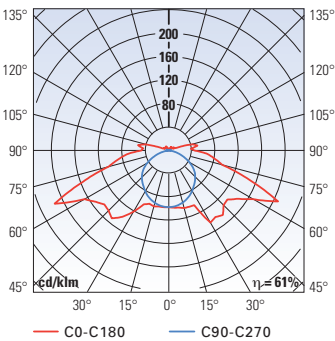
LUMINA 2000/16	centrally supplied	optional
HOUSING MATERIAL	polycarbonate	<ul style="list-style-type: none"> external power box ball protection grill
HOUSING COLOUR	white	
ILLUMINANT	LED (215lm)	
LOAD (AC/DC)	7,6VA / 3,6W	
VOLTAGE	230V AC/DC	
AMBIENT TEMPERATURE	-15°C up to +40°C	
PROTECTION CATEGORY	IP54	
PROTECTION CLASS	I	



Photometric data



Eulumdat file at www.gessler.de



Illumination of escape routes

EN 1838 4.2.1

10,8 lx

h [m] height	b1 [m] centrally supplied	b2 [m] centrally supplied
2.00	1.75	5.00
2.50	1.25	5.00
3.00	0.75	4.50
3.50	0.50	3.25
4.00	0.50	1.50

Illumination of areas > 60m² (anti-panic illumination)

EN 1838

1,1 lx

h [m] height	a [m] centrally supplied	b [m] centrally supplied	c [m] centrally supplied	d [m] centrally supplied
2.00	3.00	8.25	3.00	8.25
2.50	3.00	8.00	3.50	8.00
3.00	2.25	8.00	4.75	8.50
3.50	2.00	8.50	5.25	5.50
4.00	1.75	7.00	6.00	6.50
4.50	1.50	7.75	6.75	5.00





STARLIGHT A20

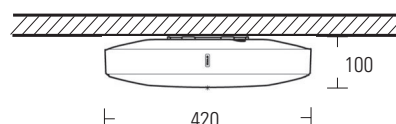
High-end commercial luminaire with
integrated and certified emergency lighting

55W T5-C

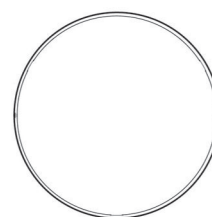
STARLIGHT A20	centrally supplied	self-contained
HOUSING MATERIAL	die-cast aluminum	
HOUSING COLOUR	RAL 9006 (gray)	
ILLUMINANT	55W T5-C (4200lm) / 4x 1W power LED (248lm)	
LOAD (AC/DC)	58VA / 4,5W	64,2VA / –
VOLTAGE	230V AC/DC	230V AC
NiCd-BATTERY	–	3,6V / 4Ah
LUMINOUS (MAINS/EMERGENCY)	100%	100% / 6%
PROTECTION CATEGORY	IP 20	
PROTECTION CLASS	I	



development cooperation
Gessler   **GLAMOX**



Gessler LED emergency lighting unit
integrated in Glamox type A20-S420



Mains operation 55W T5-C
Emergency operation
4x 1W power LEDs

centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
•	•	–	•	•	–	•	•

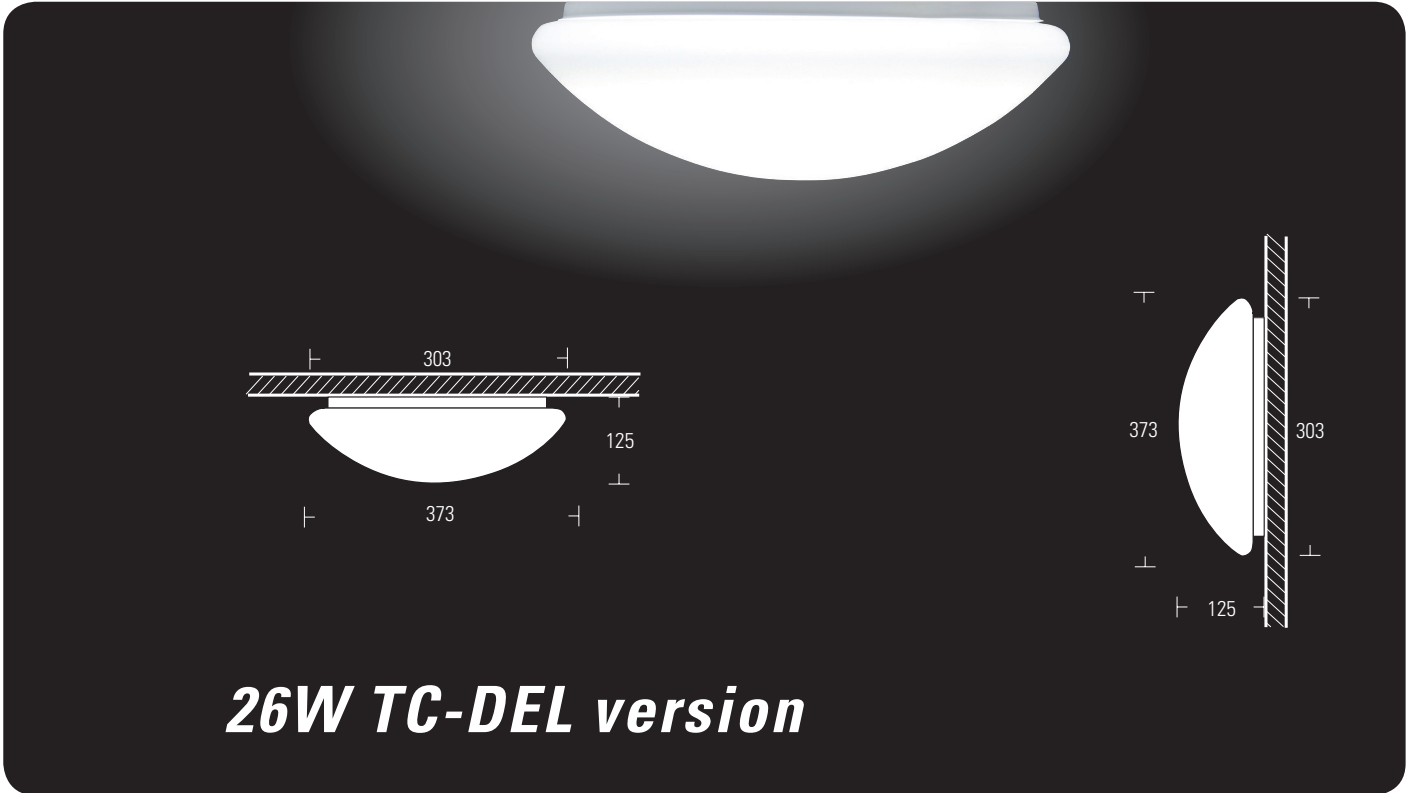


STARLIGHT
S1

Stylish general lighting luminaire
with integrated emergency lighting

26W TC-DEL

STARLIGHT S1	centrally supplied	self-contained
HOUSING MATERIAL	PMMA	
HOUSING COLOUR	opal	
ILLUMINANT	26W TC-DEL	
LOAD (AC/DC)	21,9VA / 19,7W	–
VOLTAGE	230V AC/DC	230V AC
NiCd-BATTERY	–	3,6V / 4Ah
LUMINOUS (MAINS/EMERGENCY)	100%	19,9% (1h) / 13,6% (3h)
PROTECTION CATEGORY	IP 40	
PROTECTION CLASS	I	



centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
•	•	–	•	•	–	•	•

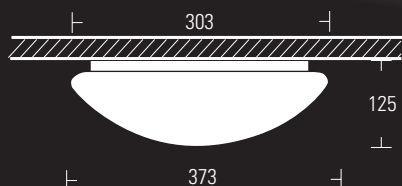


STARLIGHT S1

Stylish general lighting luminaire
with integrated emergency lighting

LED technology

STARLIGHT S1	centrally supplied	
HOUSING MATERIAL	PMMA	
HOUSING COLOUR	opal	
ILLUMINANT	18W LED (1400lm)	26W LED (Netz = 2050lm / Not = 1050lm)
LOAD (AC/DC)	11VA / 18,4W	27,5VA / 13,3W
VOLTAGE	230V AC/DC	
NiCd-BATTERY	4000k	
LUMINOUS (MAINS/EMERGENCY)	100%	50%
PROTECTION CATEGORY	IP 40	
PROTECTION CLASS	I	



26W LED version
mains operating **2050lm**
battery operating **1050lm**

18W LED version
mains operating **1400lm**
battery operating **1400lm**

centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
•	•	–	–	–	–	–	–



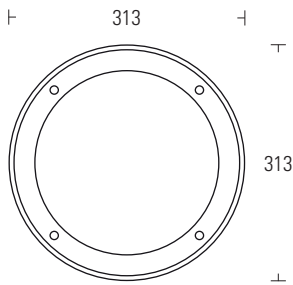
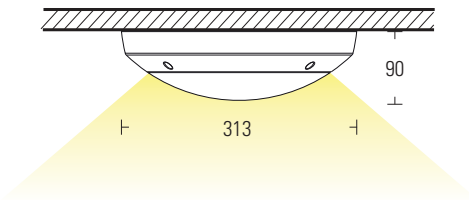
STARLIGHT S4

Robust luminaire for outdoor areas
with LED technology

STARLIGHT S4	centrally supplied
HOUSING MATERIAL	polycarbonate
HOUSING COLOUR	black, white
ILLUMINANT	LED (900lm)
LOAD (AC/DC)	9,5VA / 7,9W
VOLTAGE	230V AC/DC
NiCd-BATTERY	-
AMBIENT TEMPERATURE	-15°C up to +40°C
PROTECTION CATEGORY	IP 66
PROTECTION CLASS	II



Sturdy housing with injection
molding look, available in white
and black



centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
•	•	-	-	-	-	-	-



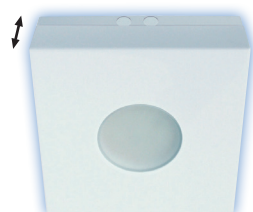
LED spot LS1

Decorative luminaire with LED technology
and satined glass plate for highest standards

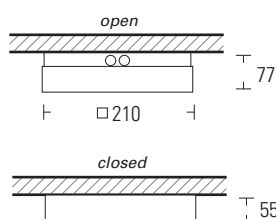
LED spot LS1	centrally supplied		self-contained	optional
HOUSING MATERIAL	polycarbonate • satined glass			<ul style="list-style-type: none">• ball protection grill• concrete ceiling box <p>centrally supplied:</p> <ul style="list-style-type: none">• monitoring <p>self-contained:</p> <ul style="list-style-type: none">• BUS test• auto test
HOUSING COLOUR	white			
ILLUMINANT	80 x LED (184lm)			
LOAD (AC/DC)	9,0VA / 4,5W	–		
VOLTAGE	230V AC/DC	230V AC		
NiCd-BATTERY	–	3,6V / 2,5Ah		
AMBIENT TEMPERATURE	-15°C up to +40°C			
PROTECTION CATEGORY	recessed: IP 20 • ceiling: IP 40			
PROTECTION CLASS	I			

wall/ceiling mounting

centrally supplied / self-contained



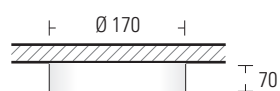
LS1Q wall/ceiling mounting:
Cable inlets are exposed by
moving height adjustment.



centrally supplied

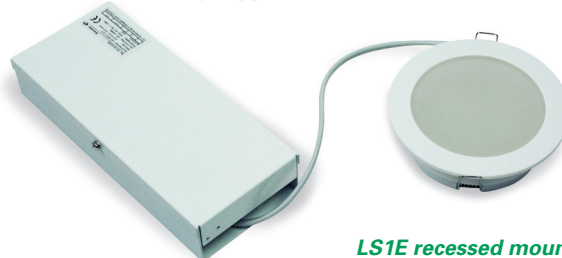


LS1K surface mounting

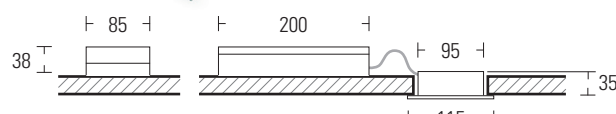


recessed mounting

centrally supplied / self-contained



LS1E recessed mounting



* Please contact local agent for certifications

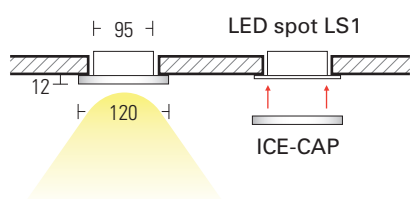
centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
•	•	–	•	•	–	•	•



LS1 diffuser ICE-CAP

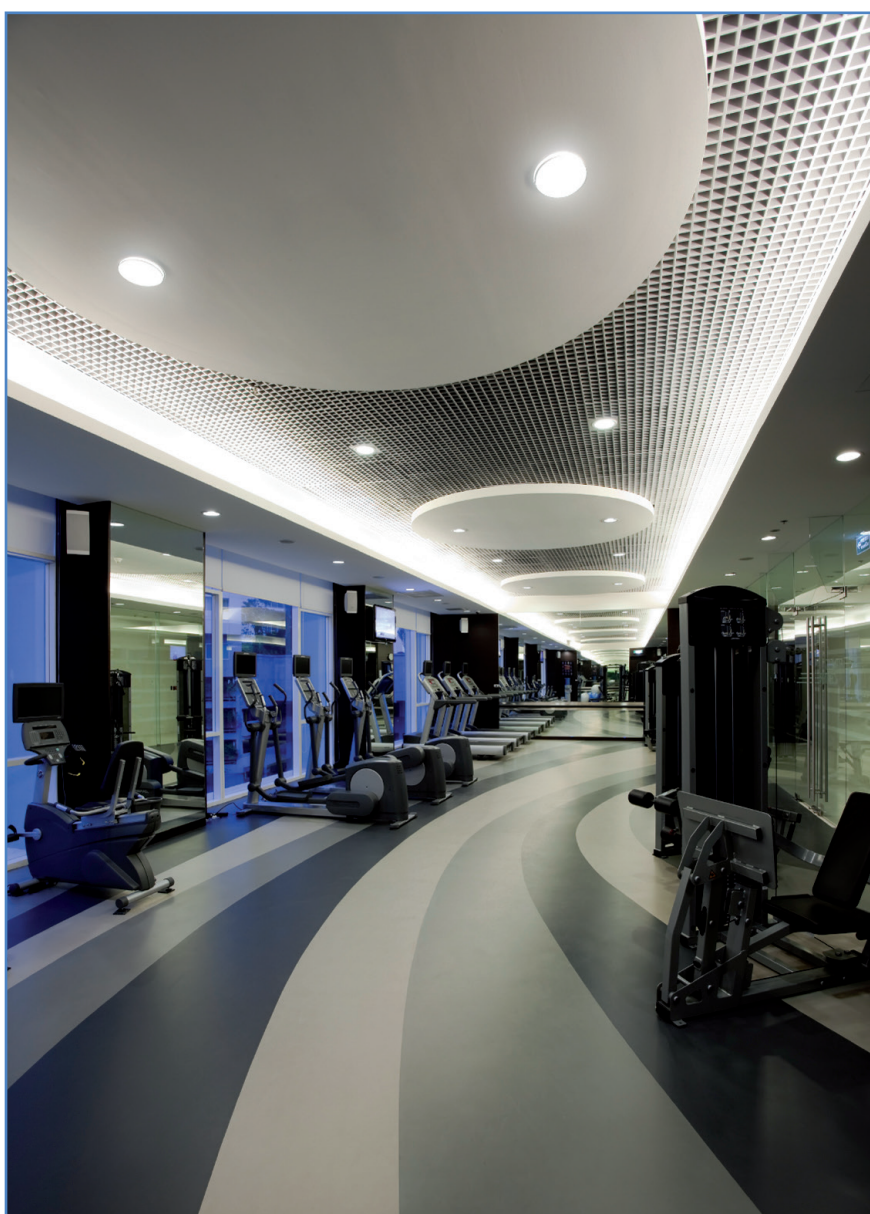
*Trendy polycarbonate diffuser with satined appearance
specially developed for LED Spot LS1*

LS1 diffusor ICE-CAP	
HOUSING MATERIAL	polycarbonate
HOUSING COLOUR	satined white



ICE-CAP covers luminaire head and decorative ring of LS1 LED spot.

*Streamlined design with satin-white finish for unobtrusive installation
in ceiling lighting system.*

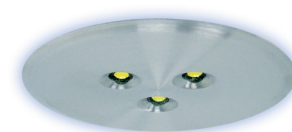
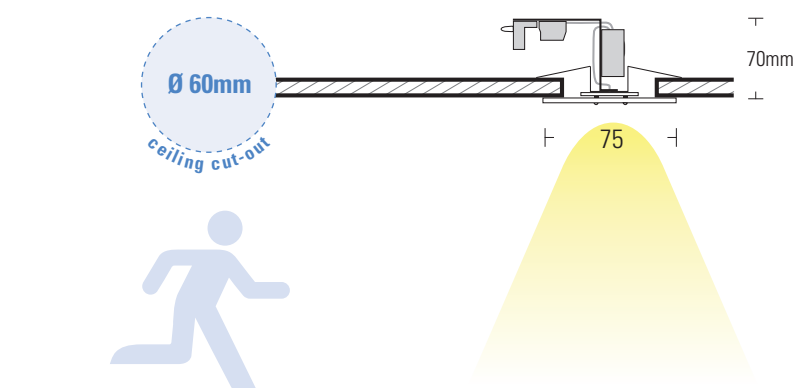




LED spot LS3

Ceiling recessed mounted discrete LED luminaire

LED spot LS3	centrally supplied	optional
HOUSING MATERIAL	sheet steel	<ul style="list-style-type: none"> monitoring stainless steel cover
HOUSING COLOUR	RAL 9016 (white)	
ILLUMINANT	3 x 1W power LED (146lm)	
LOAD (AC/DC)	8,7VA / 4,0W	
VOLTAGE	230V AC/DC	
AMBIENT TEMPERATURE	-15°C up to +40°C	
PROTECTION CATEGORY	IP 20	
PROTECTION CLASS	I	



optional:
Stainless steel cover



Connector box for easy installation with
single monitoring element



* Please contact local agent for certifications

centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
•	•	–	–	–	–	–	–

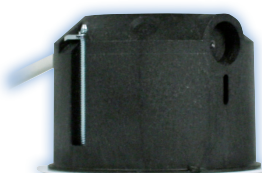


LED spot LF3

development cooperation
Gessler  KAISER 

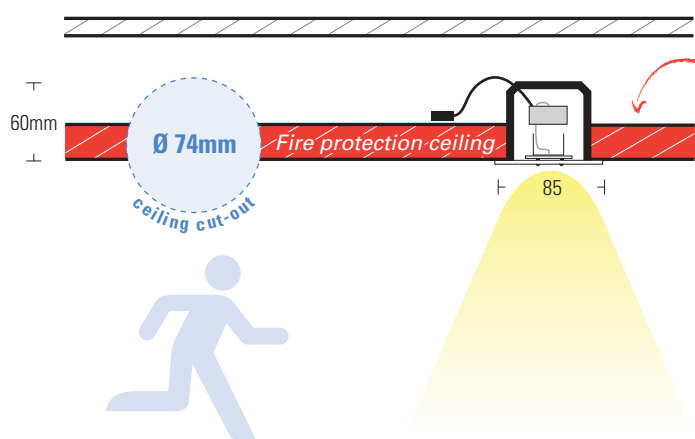
Fire rated LED luminaire
for F30 suspended (fire protection) ceilings

LED spot LF3	centrally supplied	optional
HOUSING MATERIAL	sheet steel cover	• monitoring
HOUSING COLOUR	RAL 9016 (white)	
ILLUMINANT	3 x 1W power LED (146lm)	
LOAD (AC/DC)	8,7VA / 4,0W	
VOLTAGE	230V AC/DC	
AMBIENT TEMPERATURE	-15°C up to +40°C	
PROTECTION CATEGORY	IP 20	
PROTECTION CLASS	I	



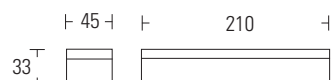
Recessed LED luminaire in certified fire protection housing:

- no resealing with fire protection silicone
- no need to mount separate fire protection housing



- **Fire protection suspended ceilings** with steel support structure and double lining made non-flammable mineral panels of protection class F30, F60 or F90 according to DIN 4102-4, or with general certificate for use in construction projects according to DIN 4102-2.
- **Fire-resistant timber beam ceilings** covered with non-flammable, mineral panels of fire resistance class F30 or F60 according to DIN 4102-4, or F30, F60, F90 with general certificate for use in construction projects according to DIN 4102-2.

Installation in F30 suspended ceilings can be done without insulating material. In F60 suspended ceilings, insulation material according to DIN 4102 part 17 (construction material class A) must be installed behind the spotlight. In F90 suspended ceilings, the spotlight must be insulated with Rockwool Termarock 100 secured to the CW profile.



Optional: connector box for easy installation with
single monitoring element

centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
•	•	–	–	–	–	–	–

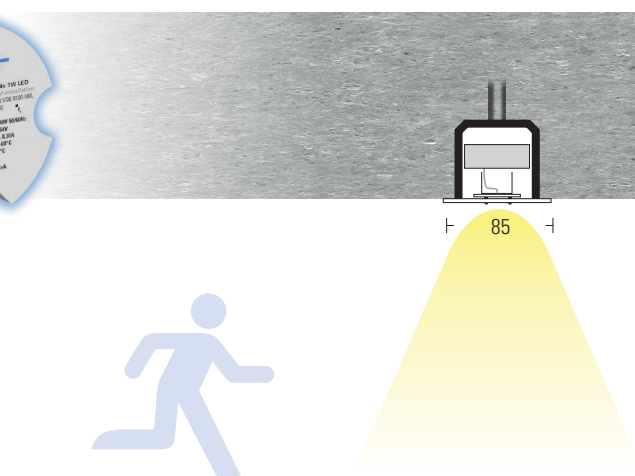


LED spot LB3

Luminaire for recessed mounting in joint boxes
with LED technology

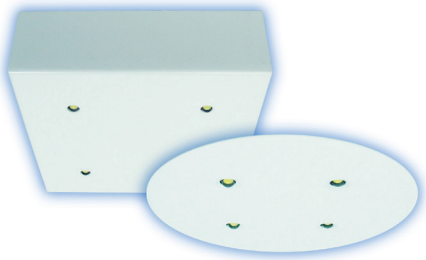
LED spot LB3	centrally supplied	optional
HOUSING MATERIAL	sheet steel cover	<ul style="list-style-type: none"> monitoring stainless steel cover
HOUSING COLOUR	RAL 9016 (white)	
ILLUMINANT	3 x 1W power LED (146lm)	
LOAD (AC/DC)	10,1VA / 4,0W	
VOLTAGE	230V AC/DC	
AMBIENT TEMPERATURE	-15°C up to +40°C	
PROTECTION CATEGORY	IP 20	
PROTECTION CLASS	I	

LED driver with monitoring element for installation
in existing device junction box with standard combi-
nation clearance of 71mm according to DIN 49073-1
(deep model)



centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
•	•*	—	—	—	—	—	—

*) only for SIBELON Systems

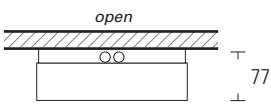
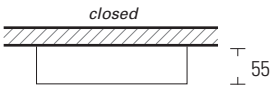
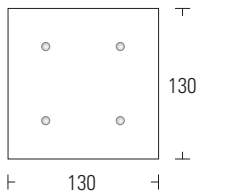
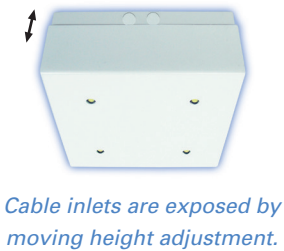


LED spot LS4

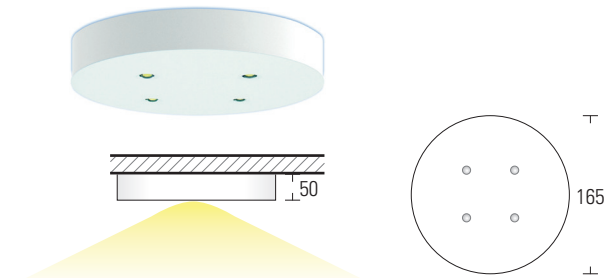
Puristically designed LED luminaire

LED spot LS4	centrally supplied		self-contained	optional
HOUSING MATERIAL	sheet steel			<ul style="list-style-type: none">• ball protection grill• concrete ceiling box <div>centrally supplied:</div> <ul style="list-style-type: none">• monitoring <div>self-contained:</div> <ul style="list-style-type: none">• BUS test• auto test
HOUSING COLOUR	RAL 9016 (white)			
ILLUMINANT	4 x 1W power LED (361lm)			
LOAD (AC/DC)	10,1VA / 4,5W		6,2VA / –	
VOLTAGE	230V AC/DC		230V AC	
NiCd-BATTERY	–		3,6V - 2,5Ah/3Ah	
AMBIENT TEMPERATURE	-15°C up to +40°C			
PROTECTION CATEGORY	recessed: IP 20 • ceiling: IP 40			
PROTECTION CLASS	I			

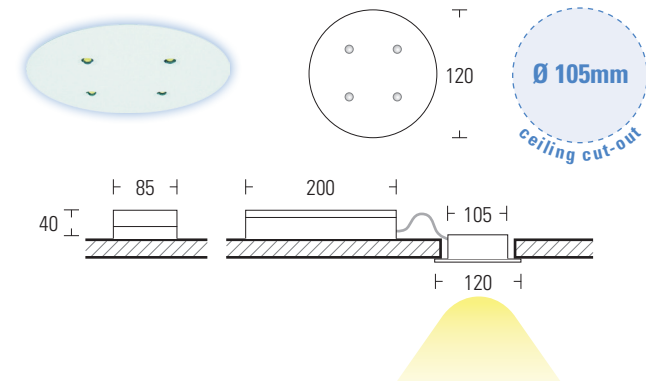
surface mounting



surface mounting



recessed mounting



centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
•	•	•*	•	•	•	•	•

*) only for recessed mounting



PRIMUS PS4

IP65 rated stainless steel LED luminaire

LED spot PS4	centrally supplied	optional
HOUSING MATERIAL	stainless steel	<ul style="list-style-type: none"> concrete adapter <p>centrally supplied:</p> <ul style="list-style-type: none"> monitoring
HOUSING COLOUR	brushed	
ILLUMINANT	4 x 1W power LED (361lm)	
LOAD (AC/DC)	10,1VA / 4,5W	
VOLTAGE	230V AC/DC	
NiCd-BATTERY	–	
AMBIENT TEMPERATURE	-15°C up to +40°C	
PROTECTION CATEGORY	IP 65	
PROTECTION CLASS	I	



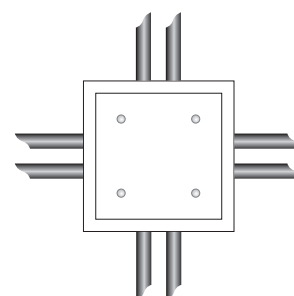
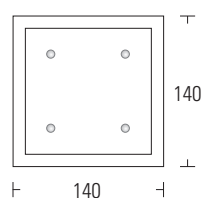
stainless steel brushed



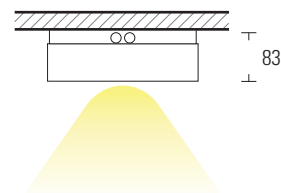
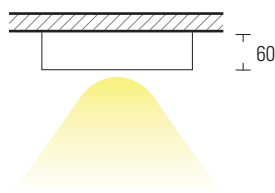
RAL 9016



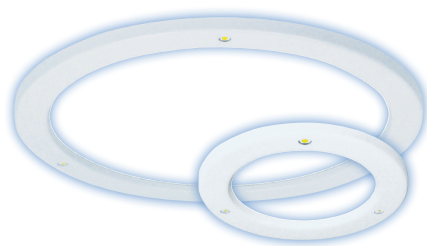
RAL 7024



optional with
concrete adapter



centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
•	•	–	–	–	–	–	–

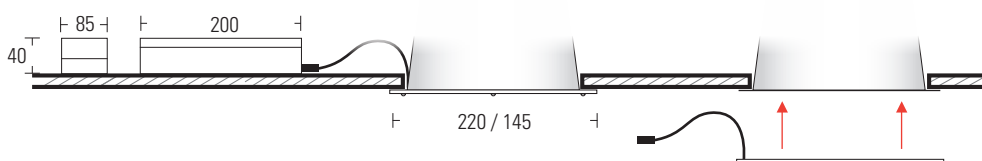


LED spot SATURN

development cooperation
Gessler   **KANDEM**
Leuchten GmbH

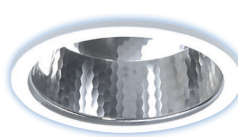
LED luminaire integrated in decorative ring
for KandeM downlights

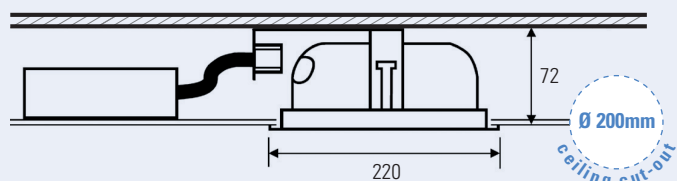
LED spot SATURN	centrally supplied	optional
HOUSING MATERIAL	sheet steel	• monitoring
HOUSING COLOUR	RAL 9016 (white)	
ILLUMINANT	3 x 1W power LED (184lm)	
LOAD (AC/DC)	7,2VA / 3,5W	
VOLTAGE	230V AC/DC	
AMBIENT TEMPERATURE	-15°C up to +40°C	
PROTECTION CATEGORY	IP 20	
PROTECTION CLASS	I	



Saturn GS1




for KandeM downlights – Series DN 30

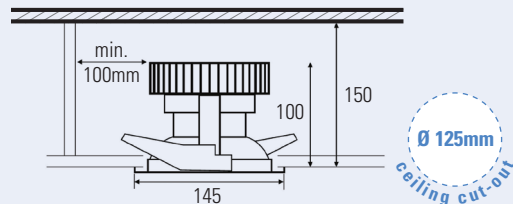
	Typ	Leucht- mittel	Fassung	Reflektor
	DN 30 1x13	TC-DEL	G24q-1	High gloss
	DN 30 1x18	TC-DEL	G24q-2	High gloss
	DN 30 1x26/32/42	TC-DEL	GX24q-3	High gloss
	DN 30 2x13	TC-DEL	G24q-1	High gloss
	DN 30 2x18	TC-DEL	G24q-2	High gloss
	DN 30 2x26/32/42	TC-DEL	GX24q-3	High gloss



Saturn GS2

for KandeM LED downlights – Series DN 100 LED

	Typ	Lichtfarbe k	Lichtstrom lm	Reflektor
	DN 100 LED 1040/827	2700	1040	High gloss
	DN 100 LED 1100/830	3000	1100	High gloss
	DN 100 LED 1100/840	4000	1100	High gloss
	DN 101 LED 1040/827	2700	1040	matte
	DN 101 LED 1100/830	3000	1100	matte
	DN 101 LED 1100/840	4000	1100	matte
	DN 102 LED 1040/827	2700	1040	white
	DN 102 LED 1100/830	3000	1100	white
	DN 102 LED 1100/840	4000	1100	white



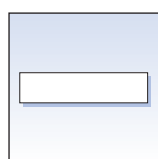
centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
•	•	•	–	–	–	–	–



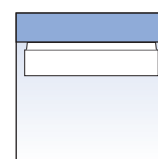
LUMINA 2000/1

IP44 rated polycarbonate LED luminaire

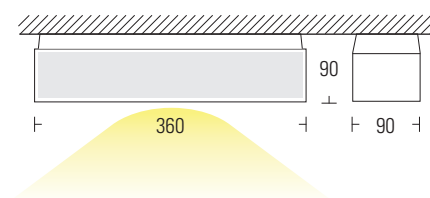
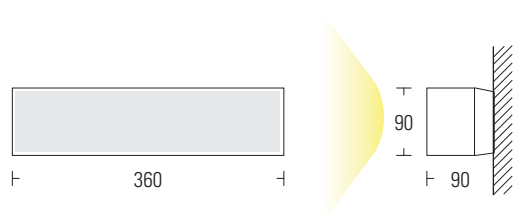
LUMINA 2000/1	centrally supplied	self-contained	optional
HOUSING MATERIAL	polycarbonate		<ul style="list-style-type: none">• ball protection grill centrally supplied: <ul style="list-style-type: none">• monitoring self-contained: <ul style="list-style-type: none">• BUS test• auto test
HOUSING COLOUR	white		
ILLUMINANT	8W T5 (450lm)		
LOAD (AC/DC)	8,5VA / 7,3W	–	
VOLTAGE	230V AC/DC	230V AC	
NiCd-BATTERY	–	3,6V - 4Ah	
LUMINOUS (MAINS/EMERGENCY)	100%	30%	
AMBIENT TEMPERATURE	-15°C up to +40°C		
PROTECTION CATEGORY	IP 44		
PROTECTION CLASS	I		



wall mounting



ceiling mounting



* Please contact local agent for certifications

centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
•	•	–	•	•	–	•	•



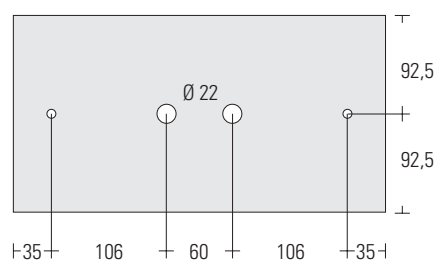
High power spotlight TS1

High power spotlight for
industrial applications and warehouses

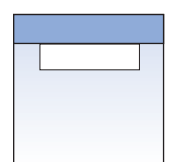
High power spotlight TS1	centrally supplied	optional
HOUSING MATERIAL	sheet steel	<ul style="list-style-type: none"> ball protection grill monitoring
HOUSING COLOUR	RAL 9016 (white)	
ILLUMINANT	11W TC-SE (900lm)	
LOAD (AC/DC)	22,6VA / 10,7W	
VOLTAGE	230V AC/DC	
AMBIENT TEMPERATURE	-15°C up to +40°C	
PROTECTION CATEGORY	IP 54	
PROTECTION CLASS	I	



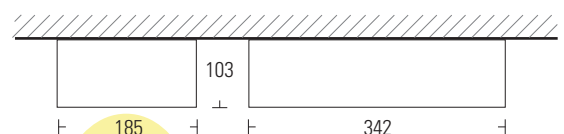
Optimized lighting of escape routes in
high rack warehouses



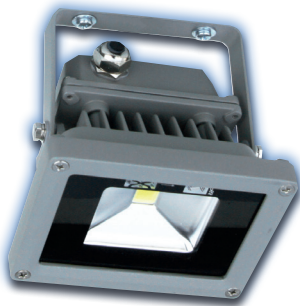
High light output thanks to
optimized high-gloss reflector!



ceiling mounting



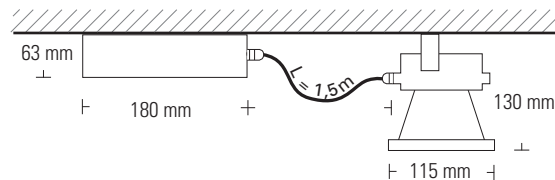
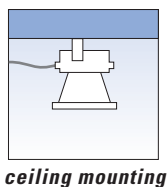
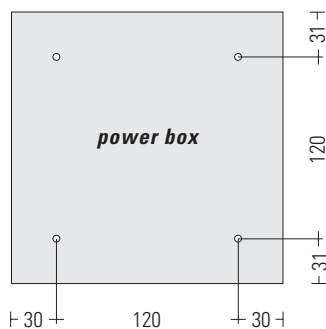
centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
•	•	–	–	–	–	–	–



High performance spotlight ST1

IP65 rated high performance LED spotlight
including swivel head

High performance spotlight ST1	centrally supplied	optional
HOUSING MATERIAL	die cast - PS	<ul style="list-style-type: none"> ball protection grill monitoring
HOUSING COLOUR	gray	
ILLUMINANT	10W LED (579lm)	
LOAD (AC/DC)	13,7VA / 12W	
VOLTAGE	230V AC/DC	
AMBIENT TEMPERATURE	-15°C up to +40°C	
PROTECTION CATEGORY	IP 65	
PROTECTION CLASS	I	



centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
•	•	–	–	–	–	–	–



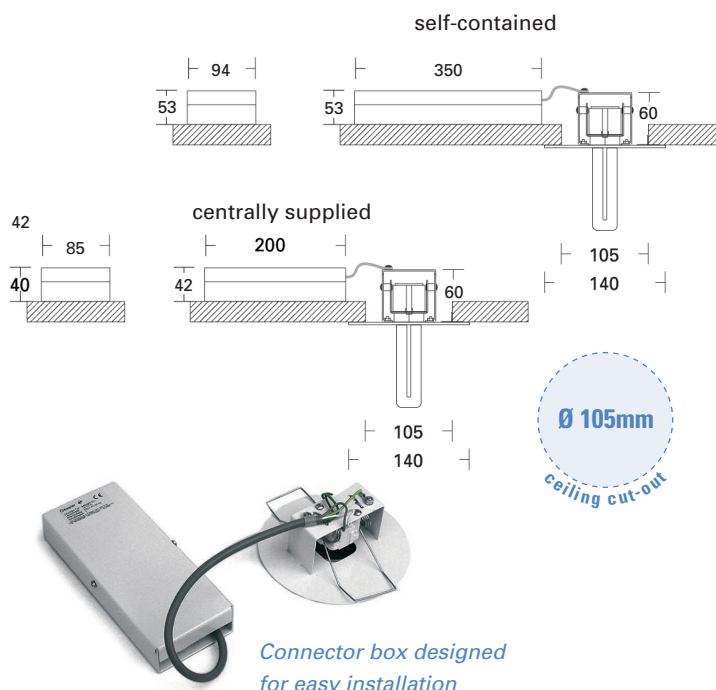
DELIGHT D2

Unshielded ceiling recessed luminaire

DELIGHT D2	centrally supplied	self-contained	optional
HOUSING MATERIAL	sheet steel		<ul style="list-style-type: none">• ball protection grill centrally supplied: <ul style="list-style-type: none">• monitoring self-contained: <ul style="list-style-type: none">• BUS test• auto test
HOUSING COLOUR	RAL 9016 (white)		
CEILING CUT-OUT	Ø 105mm		
ILLUMINANT	13W TC-DEL (900lm)		
LOAD (AC/DC)	10,7W	–	
VOLTAGE	230V AC/DC	230V AC	
NiCd-BATTERY	–	3,6V / 4Ah	
LUMINOUS (MAINS/EMERGENCY)	100%	27% (1h) • 21% (3h)	
PROTECTION CATEGORY	IP 20		
PROTECTION CLASS	I		



Unobtrusive Delight D2 installation



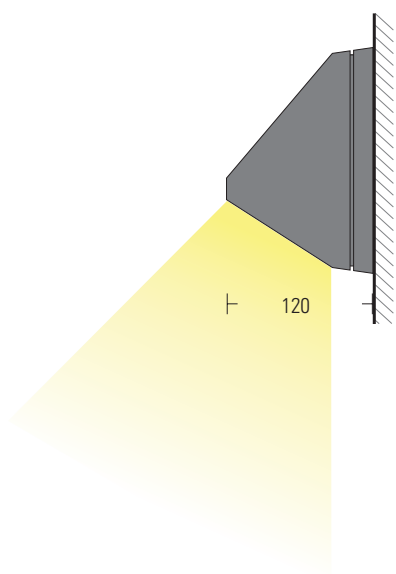
centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
•	•	–	•	•	–	•	•



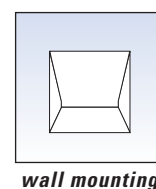
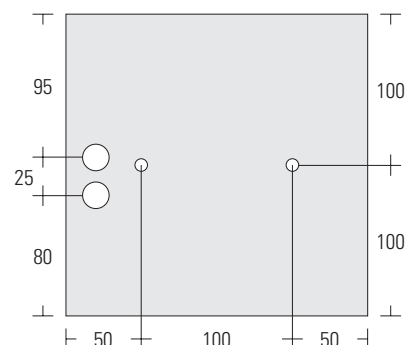
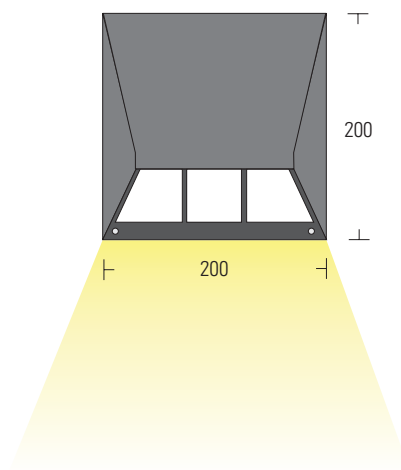
LED-MASTER LM1

LED luminaire in modern design mounted
into die cast aluminum housing

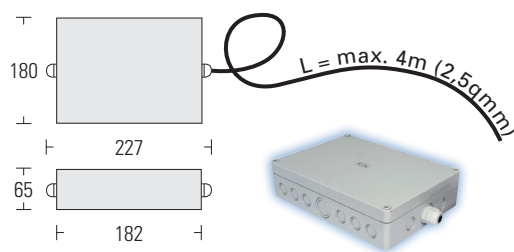
LED-MASTER LM1	centrally supplied	self-contained	optional
HOUSING MATERIAL	die-cast aluminum		<ul style="list-style-type: none">external power box centrally supplied: <ul style="list-style-type: none">monitoring self-contained: <ul style="list-style-type: none">BUS testauto test
HOUSING COLOUR	anthracite		
ILLUMINANT	3 x 1W power LED (99lm)		
LOAD (AC/DC)	7,6VA / 3,6W	5,6VA / –	
VOLTAGE	230V AC/DC	230V AC	
NiCd-BATTERY	–	3,6V / 2,5Ah	
AMBIENT TEMPERATURE	-15°C up to +40°C		
PROTECTION CATEGORY	IP 65		
PROTECTION CLASS	I		



optional:
External power box for
self-contained model for installation
in temperature-controlled rooms



wall mounting



centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
•	•	•	•*	•*	•*	•*	•*

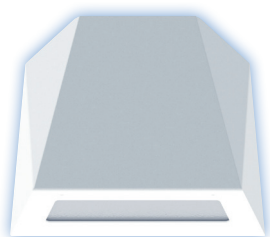
* to be provided on site / by using external power box



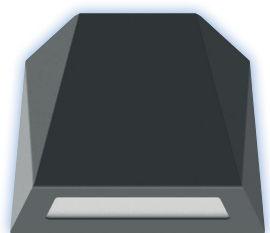
LED-MASTER LM4

Compact and stylish LED luminaire

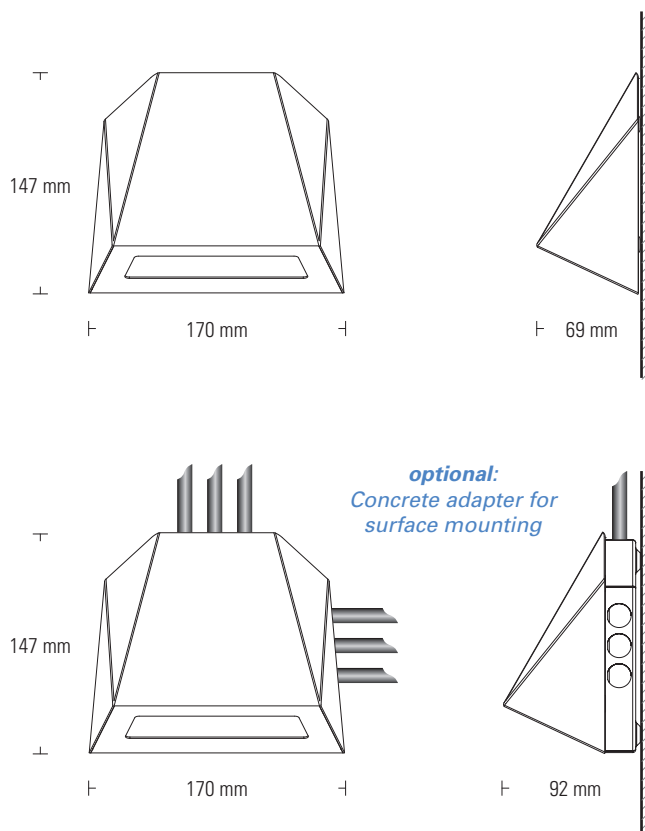
LED-MASTER LM4	centrally supplied	self-contained	optional
HOUSING MATERIAL	sheet steel		<ul style="list-style-type: none">• concrete adapter <i>centrally supplied:</i> <ul style="list-style-type: none">• monitoring <i>self-contained:</i> <ul style="list-style-type: none">• BUS test• auto test
HOUSING COLOUR	RAL 9016 (white) RAL 7024 (graphite gray)		
ILLUMINANT	4 x 1W power LED (200lm)		
LOAD (AC/DC)	10,1VA / 4,5W	6,2VA / –	
VOLTAGE	230V AC/DC	230V AC	
NiMH-BATTERY	–	3,6V / 4,4Ah	
LUMINOUS (MAINS/EMERGENCY)	100%	72%	
AMBIENT TEMPERATURE	-15°C up to +40°C		
PROTECTION CATEGORY	IP 41		
PROTECTION CLASS	I		



RAL 9016



RAL 7024



centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
●	●	●	●	●	●	●	●



LED-MASTER LM5

Discrete IP41 rated luminaire
with soft, rounded edges

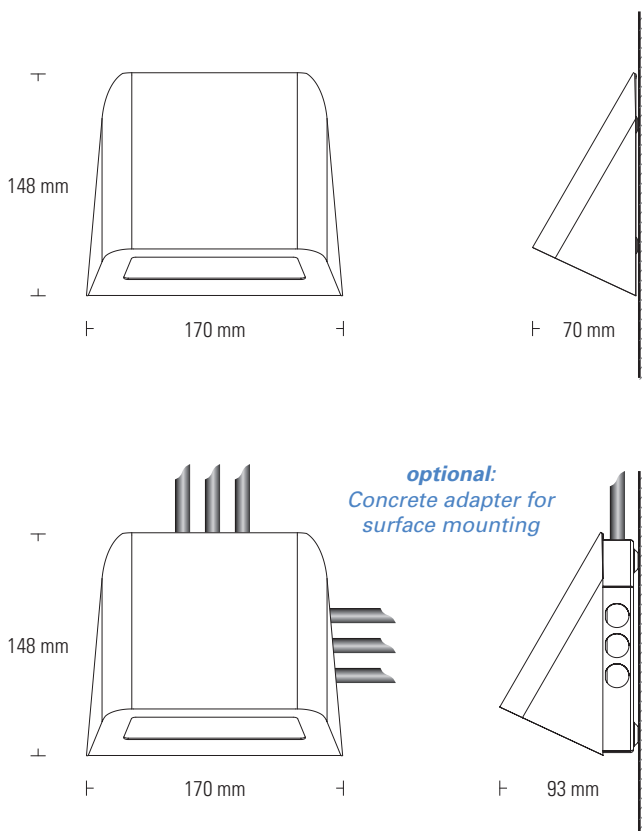
LED-MASTER LM5	centrally supplied	self-contained	optional
HOUSING MATERIAL	sheet steel		<ul style="list-style-type: none">concrete adapter <p>centrally supplied:</p> <ul style="list-style-type: none">monitoring <p>self-contained:</p> <ul style="list-style-type: none">BUS testauto test
HOUSING COLOUR	RAL 9016 (white) RAL 7024 (graphite gray)		
ILLUMINANT	4 x 1W power LED (200lm)		
LOAD (AC/DC)	10,1VA / 4,5W	6,2VA / –	
VOLTAGE	230V AC/DC	230V AC	
NiMH-BATTERY	–	3,6V / 4,4Ah	
LUMINOUS (MAINS/EMERGENCY)	100%	72%	
AMBIENT TEMPERATURE	-15°C up to +40°C		
PROTECTION CATEGORY	IP 41		
PROTECTION CLASS	I		



RAL 9016



RAL 7024



centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
•	•	•	•	•	•	•	•



LONGLIGHT L36 / L58

High-quality recessed step-light with stainless steel cover

LONGLIGHT	L36 EVG	L36 Akku	L58 EVG	L58 Akku
HOUSING MATERIAL	PE-GF / PMMA			
HOUSING COLOUR	gray			
ILLUMINANT	36W T8 (3350lm)		58W T8 (5200lm)	
LOAD (AC/DC)	32,0VA / 34,7W	–	49,3VA / 48,5W	–
VOLTAGE	230V AC/DC	230V AC	230V AC/DC	230V AC
NiCd-BATTERY	–	6V / 4Ah	–	6V / 4Ah
LUMINOUS (MAINS/EMERGENCY)	100%	22% (1h) / 10% (3h)	100%	15% (1h) / 7% (3h)
PROTECTION CATEGORY	IP 65			
PROTECTION CLASS	I			

optional

- ball protection grill

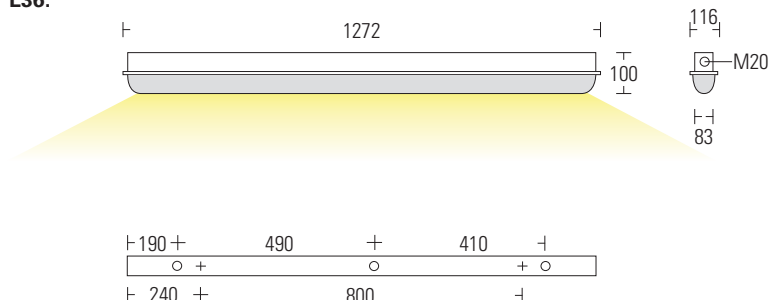
centrally supplied:

- monitoring

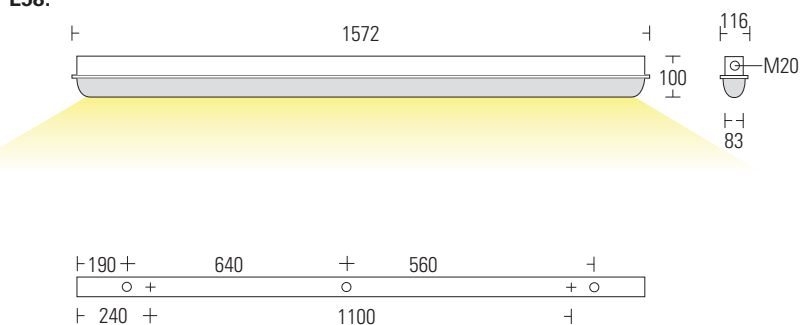
self-contained:

- BUS test
- auto test

L36:



L58:



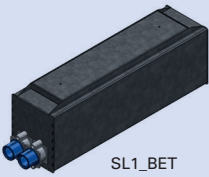
○ Cable inlet Ø M20
+ Fixtures Ø 6mm

centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
•	•	–	•	•	–	•	•



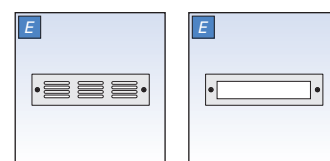
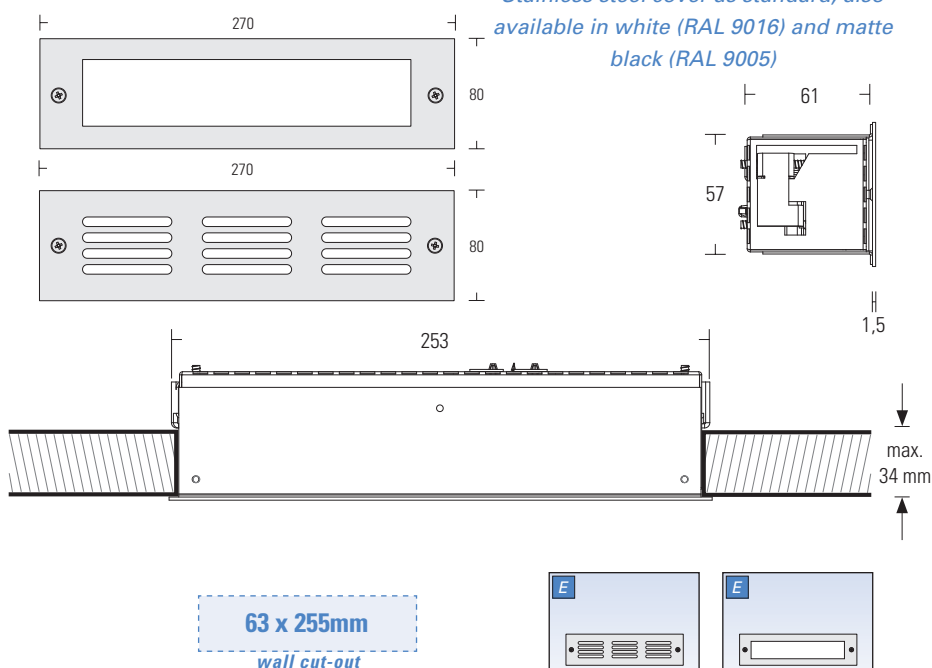
SUB-LED SL1

High-quality recessed step-light
with stainless steel cover

SUB-LED SL1	centrally supplied	optional
HOUSING MATERIAL	sheet steel	<ul style="list-style-type: none"> • monitoring • grill cover • concrete ceiling box 
HOUSING COLOUR	stainless steel • sheet steel	
ILLUMINANT	3 x 1W power LED	
LOAD (AC/DC)	7,6VA / 3,6W	
VOLTAGE	230V AC/DC	
AMBIENT TEMPERATURE	-15°C up to +40°C	
TERMINAL BLOCK	3 x 2,5mm ²	
PROTECTION CATEGORY	IP 43	
PROTECTION CLASS	I	



SL1 for step illumination conforming
to DIN standard



recessed mounting

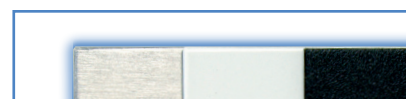
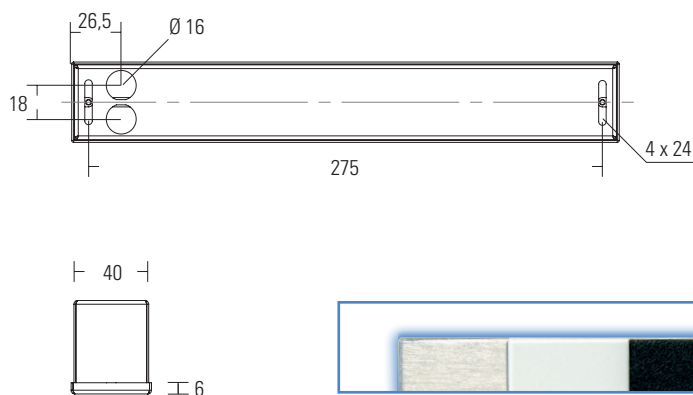
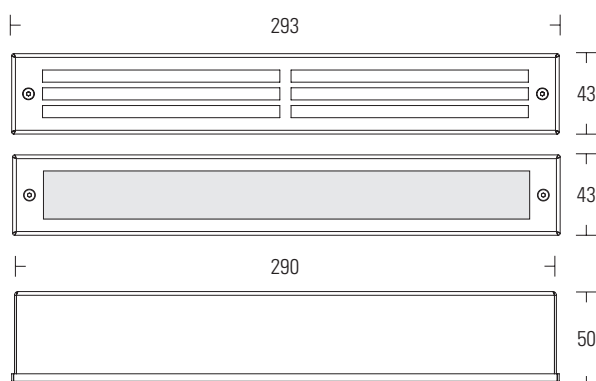
centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
•	•	—	—	—	—	—	—



LED-MASTER LM3

*Slim universal LED luminaire
in stainless steel design*

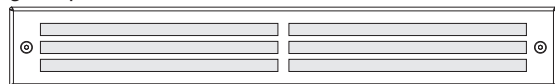
LED-MASTER LM3	centrally supplied	optional
HOUSING MATERIAL	stainless steel	• monitoring
HOUSING COLOUR	brushed	
ILLUMINANT	4 x 1W power LED	
LOAD (AC/DC)	7,6VA / 3,6W	
VOLTAGE	230V AC/DC	
AMBIENT TEMPERATURE	-15°C up to +40°C	
TERMINAL BLOCK	3 x 2,5mm ²	
PROTECTION CATEGORY	IP 43	
PROTECTION CLASS	I	



*Stainless steel cover as standard; also
available in white (RAL 9016) and
matte black (RAL 9005)*

Cover versions:

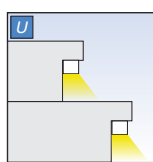
grid optic



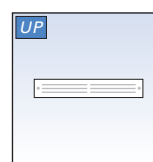
window optic



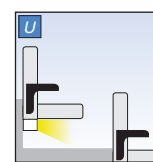
Ideal for:



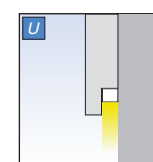
*Under-step
installation*



*Recessed
mounting*



*Under-seat
installation*



*Shadow gap
installation*

centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
•	•	–	–	–	–	–	–



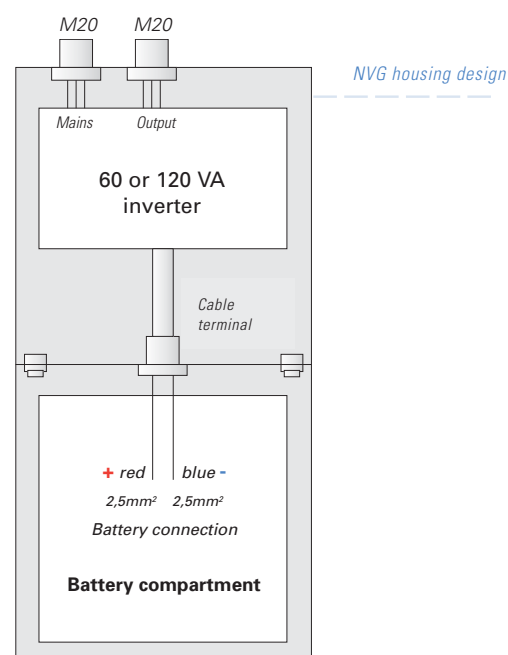
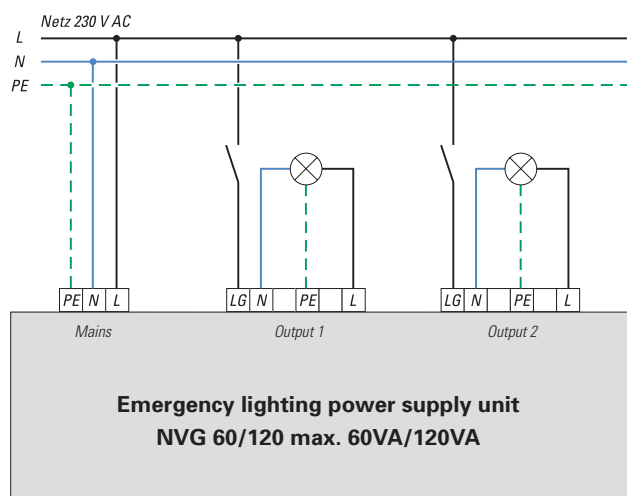
NVG

self-contained power supply units

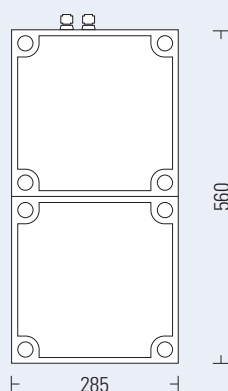
	NVG 60	NVG 120
HOUSING MATERIAL	polycarbonate	
LOAD (AC/DC)	60VA	120VA
VOLTAGE	In: 230V AC 50 Hz / Out: 230V AC 50 Hz *	
PB-BATTERY	12V/18Ah (1h) bzw. 12V/26Ah (3h)	24V/18Ah (1h) bzw. 24V/40Ah (3h)
AMBIENT TEMPERATURE	+20°C up to +25°C	
PROTECTION CATEGORY	IP 54	
PROTECTION CLASS	I	
MONITORING (OPTIONAL)	auto test BUS test	

*not suitable for Osram Quicktronic EVG!

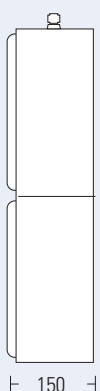
The NVG can supply max. 2 consumers from a distance of up to 800m. If connected to the mains, these consumers can be switched on/off together with the general lighting system.



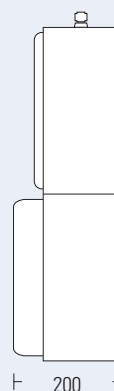
Dimensions:



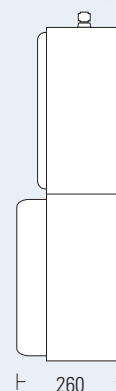
60VA/1h



60VA/3h - 120VA/1h



120VA/3h

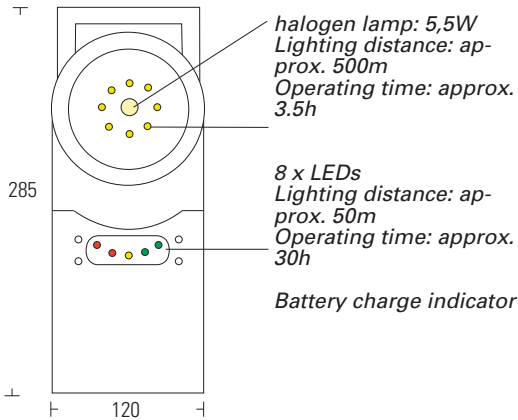
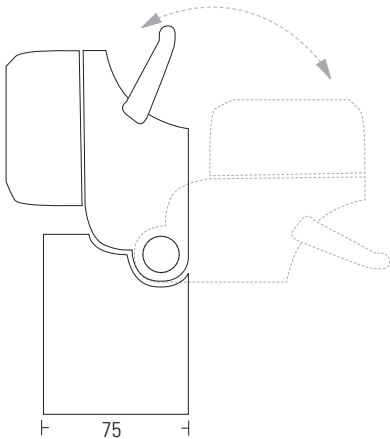




HSW-V3

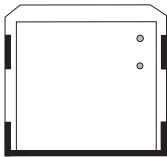
Stout, portable spotlight for industrial applications

HSW-V3	centrally supplied	
HOUSING MATERIAL	polyamide	
HOUSING COLOUR	black	
ILLUMINANT	5,5W halogen (3,5h) • 8 x LED (30h)	
VOLTAGE	230V AC	
LiPoFe BATTERY	7,4V / 1,8Ah	
AMBIENT TEMPERATURE	+10°C up to +30°C	
PROTECTION CATEGORY	IP 44	
PROTECTION CLASS	I	
WEIGHT	1,3kg	



Special features:

- Automatic switch-on in the event of mains failure
- Flash mode
- Charging station for stand-alone/wall installation
- Auxiliary luminaire with 8x LEDs
- Swivel luminaire head
- Light filter disc (orange)
- Battery charge indicator
- 12V car adapter



Including charging station for HSW-V2, designed for wall/stand-alone installation

centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
—	—	—	•	•	—	•	•



Twin Spot NLS

High performance spotlight for industrial applications

Twin Spot NLS	
HOUSING MATERIAL	sheet steel
HOUSING COLOUR	RAL 7035 (light gray)
ILLUMINANT	2 x 55W halogen
VOLTAGE	230V AC
PB BATTERY	26Ah (1h) / 40Ah (3h)
AMBIENT TEMPERATURE	+20C up to +25°C
PROTECTION CATEGORY	IP 44
PROTECTION CLASS	I

110W

NLS

The Gessler emergency spotlight has been especially developed to light large areas. The spotlight heads can be swiveled in all directions.

In emergency mode, each head has lighting power of 55W (halogen). Thanks to its sturdy housing, the emergency twin spot is particularly suitable for installation in industrial environments.

centrally supplied			self-contained				
without monitoring	with monitoring	DALI monitoring	1h	3h	8h	auto test	BUS test
–	–	–	•	•	–	•	•



Mimic Panel MT2

Mimic Panel	MT2	dimensions
CASING MATERIAL	polycarbonate	
CASING COLOUR	RAL 9016	
SUPPLY VOLTAGE	24V DC	
LED STATUS DISPLAY	ready-to-operate, battery operation, fault	
PROTECTION TYPE	IP 30	
ADDITIONAL OPERATION FUNCTION	S On/Off, LED test, horn off	

Display panel for installation in existing device junction box with standard combination clearance of 71mm according to DIN 49073-1.

Also available with surface mounting housing



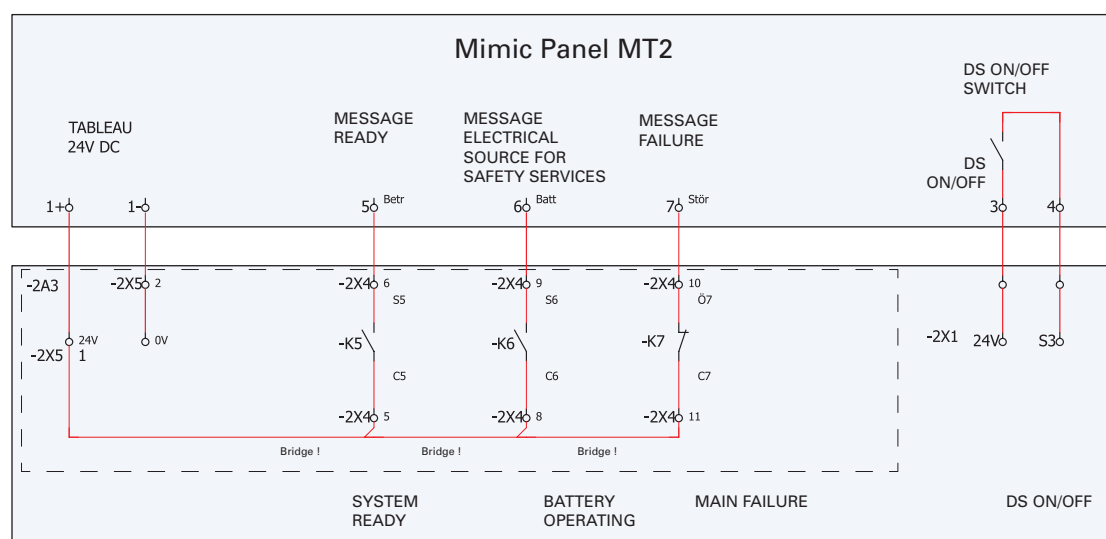
MT2-E

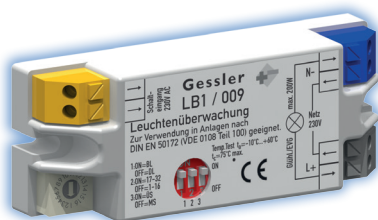


MT2-A

Integrated ON/OFF key switch for continuous lighting

Connection to Sibelon systems



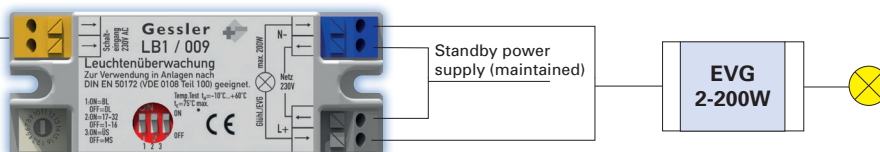


LB1/009

SIBELON luminaire module with seperated switching input

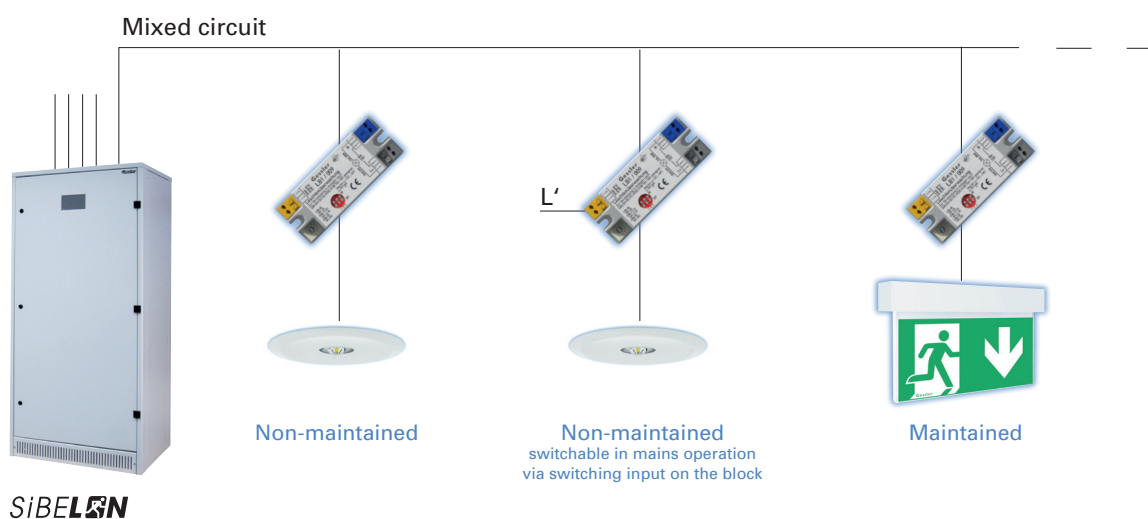
Luminaire module	LB1/009	dimensions
CASING MATERIAL	polycarbonate	
MAINS / EMERGENCY CONNECTION	230V AC / 220V DC (+/- 20%)	
AMBIENT TEMPERATURE	-10°C bis +60°C	
PERFORMANCE RANGE	2-200W	
ADDRESS RANGE	1 bis 20	
MAX. ACTIVATION CURRENT EVG	45A / 5ms	
PROTECTION CLASS	II	
PROTECTION TYPE	IP 20	

Switch input (230V AC) /
1ph mains sensor (230V
AC) can be selected via
the slide switch



Using the Gessler LB1/009 module means that three switch types (maintained, switch maintained and non-maintained) can be realised in one circuit. This results in significant savings during installation and a reduction of the thermal load.

This means that connected luminaires can be monitored and also activated with the general lighting. The data is transferred via the power cable from the central battery system. In the event of any faults in individual luminaires, the exact location can be shown on the display on the central system.

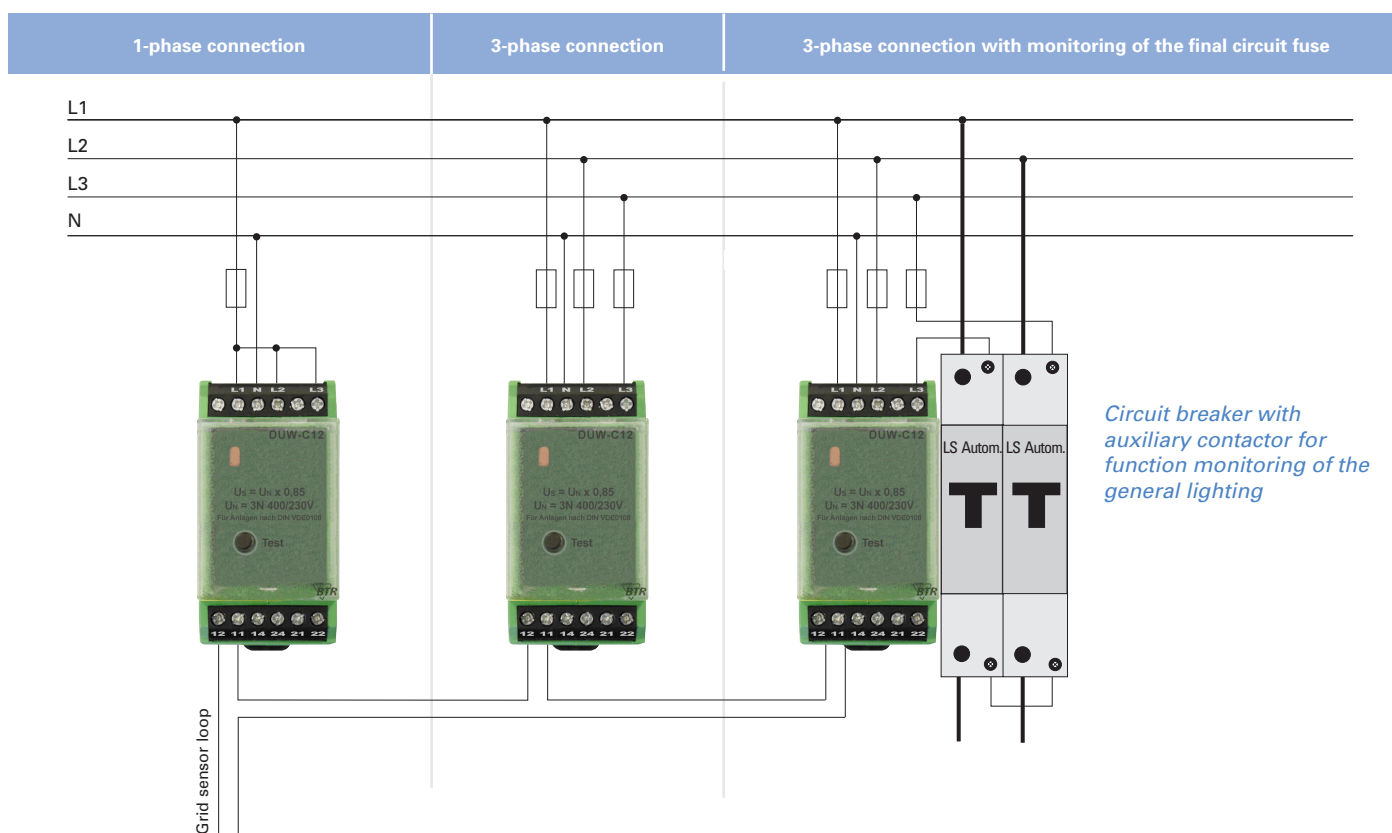




I-Con16

3-phase monitor

3-phase monitor	I-Con16	dimensions
CASING MATERIAL	polycarbonate	
NOMINAL VOLTAGE	230V/400V 50Hz	
POWER DRAW	16VA / 1,7W	
RELAY CONTACTS	2 x potential-free changeover contacts	
DISPLAY	Led status display	
PROTECTION CLASS	II	
		DIN rail installation 2 TE



The Gessler mains sensor switches upon

- failure of at least one phase
- undercutting of a phase by 85% of the rated voltage at two potential-free changeover contacts

Status display:

- LED on = fault-free operation
- LED off = mains fault



Type Approved
Safety
Regular Production
Surveillance

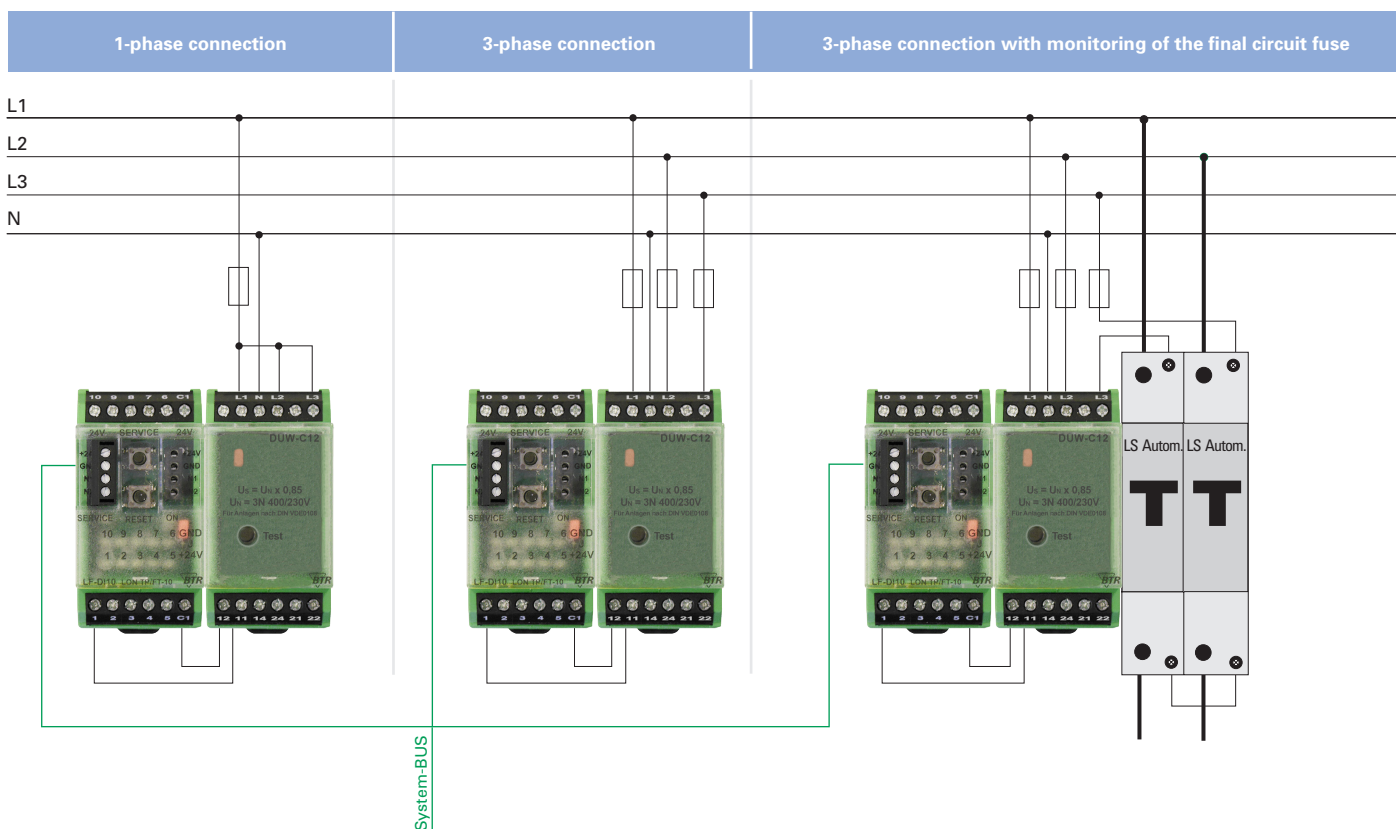
www.tuv.com
ID 0000049011



I-Connect16

3-phase BUS monitor

3-phase BUS monitor	I-Connect16	dimensions
CASING MATERIAL	polycarbonate	
NOMINAL VOLTAGE	230V/400V 50Hz	
POWER DRAW	16VA / 1,7W	
SWITCHING INPUT	1x 24V via external potential-free contacts	
DISPLAY	Led status display	
PROTECTION CLASS	II	
		DIN rail installation 4 TE



The Gessler mains sensor switches upon

- failure of at least one phase
- undercutting of a phase by 85% of the rated voltage via system BUS

Status display:

- LED on = fault-free operation
- LED off = mains fault



Type Approved
Safety
Regular Production
Surveillance

www.tuv.com
ID 0000049011

SIBELON

Emergency lighting system for AC and DC power

- ▶ Max. load: 150kVA
- ▶ Version 20: max. 20 lines (6,3A)
Version 40: max. 40 lines (6,3A)
Version 60: max. 60 lines (6,3A)
Version 80: max. 80 lines (6,3A)
230V output voltage AC/DC
- ▶ Line monitoring
- ▶ Freely programmable final end circuits for maintained and non-maintained lighting
- ▶ Microprocessor-guided function and battery duration test
- ▶ Programming via 7" fully graphic touchscreen
- ▶ TCP/IP interface
- ▶ Logbook function included
- ▶ System communication by LON-BUS
- ▶ Optional: single-lamp monitoring by the use of address modules (without additional data line)
- ▶ Optional: mixed installation of maintained and non-maintained luminaires
- ▶ Optional: visualization on a PC



Type Approved
Safety
Regular Production
Surveillance

www.tuv.com
ID 0000049011

max. 150kVA
230V output voltage AC/DC

Power source

The **SIBELON** system can be adapted to any power source. The central installation can be powered by a battery unit, a fuel cell, diesel generator (emergency power unit) or a second mains connection. You can of course combine several power sources within one system, for instance by powering the central unit from a battery, while running the connected substations from a diesel generator. **SIBELON** knows no limits.



Fuel cell



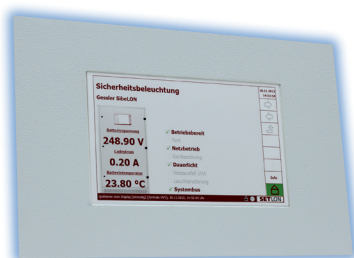
Diesel generator / transformer



Battery unit



2nd mains



SIBELON

I-VIEW6

Display and control unit with touch screen

	I-VIEW6	Dimensions external housing
HOUSING:	Polycarbonate	
PROTECTION CATEGORY:	IP 20	
DISPLAY:	7" (TFT)	
CONTROL/PROGRAMMING:	through touch screen interface	
SPECIAL FEATURES:	designed for mobile use	
CONNECTING PORTS:	USB / TCP-IP (RJ45) / System BUS	

Advantages of portable I-VIEW6 control unit



- ▶ On-site programming of final circuits in substations
- ▶ On-site programming of luminaires
- ▶ Quick troubleshooting with visualization screens

Web browser visualization

Functions:

The user-friendly, intuitive menus for safety device are accessible through any web browser. All settings, error messages and system data can be viewed and changed safety through the Internet/Intranet. Functions include:

- Visualization of all system data
- Visualization of individual circuits with configuration details
- Indication of defective luminaires
- Continuous logging
- Log viewing and printing
- Programming of target location for each luminaire
- Error display with detailed information
- System overview and naming option for all subsystems and circuits (location of installation)
- Remote control of system (ON/OFF; continuous lighting ON/OFF, testing; circuit calibration)
- Integrated service module for the programming of the system and branch circuits

Visualization screens:

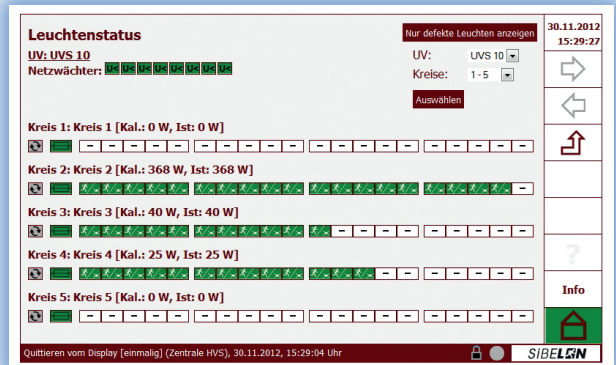
Start screen - system overview



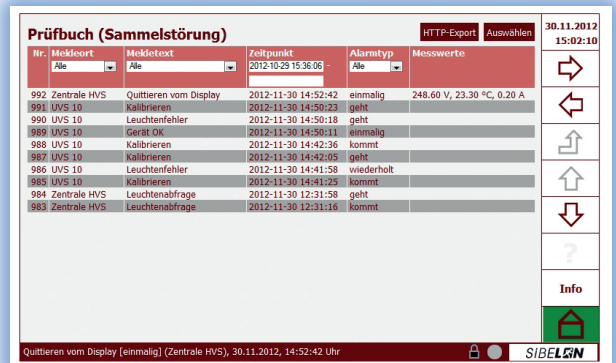
Overview of connected substations



Luminaire status overview



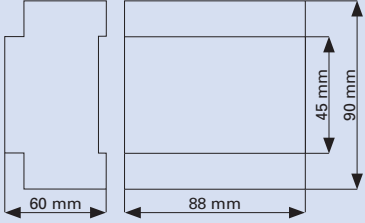
Log/error log





Web-Master

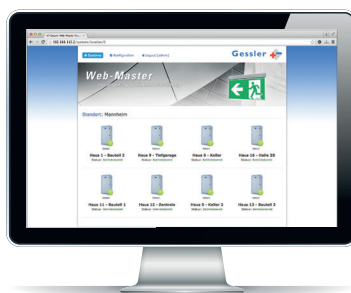
Visualization of networked Sibelon system accessible via Internet/Intranet

visualization	Web-Master	dimensions
CASING MATERIAL	polycarbonate	 <p>DIN rail installation 5 TE</p>
I/O PORT	Ethernet	
SUPPLY VOLTAGE	230V AC/DC	
LOAD (AC)	max. 20VA	
PROTECTION CATEGORY	IP 20	
PROTECTION CLASS	II	

Web-Master visualization

Centralized visualization via TCP-IP

Using the Web-Master visualization, up to 1,000 Gessler LPS/CPS systems can be monitored and controlled simultaneously in real time on one screen by using a standard web browser.



Centralized visualization

- ▶ Intuitive graphic user interface
- ▶ Live status display
- ▶ Function and continuous operating testing
- ▶ Reading/writing log
- ▶ Login with user management
- ▶ Password protection

Internet/Intranet



Web-Master

- ▶ Management of up to 1,000 emergency lighting systems
- ▶ Integrated web server
- ▶ Integrated mail client
- ▶ Grouping function (e.g. plant I)

Location: Frankfurt

Location: Mannheim

Location: Munich





I-Connect16
3-phase BUS monitor
Max. 18 power monitors, assignable to max. 60 circuits

Description of functions

Monitoring of general power supply network by means of BUS monitors for detailed, plain text description of location.

Example: UV-AV 2.UG,Flur

J-Y(St)Y 2x2x0,8

Line n



max. 20



mixed installation

Line n-1



max. 20



I-Con16
3-phase monitor

J-Y(St)Y 2x2x0,8

In case of mains failure or any annoyance of the exterior 3-phase monitor, sub-station connects automatically.

system BUS

Line n



max. 20



mixed installation

Line n-1



max. 20



Separate I-View6 in control desk housing



CAT 7 (RJ45)



Web-Visualization

J-Y(St)Y 2x2x0,8
system BUS

max. 815VA
230V AC/DC

J-Y(St)Y 2x2x0,8
3 x ... E30 system BUS

Switching inputs
8x potential-free
(max. 60)

1
2
...
60

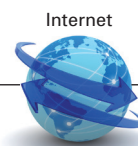
mains 230/400V AC

J-Y(St)Y 4x2x0,8



Mimic Panel (MT2)

CAT 7 (RJ45)



Web-Visualization



I-Connect16
3-phase BUS monitor
max. 6 assigned to each substation

J-Y(St)Y 2x2x0,8



I-Con16
3-phase monitor

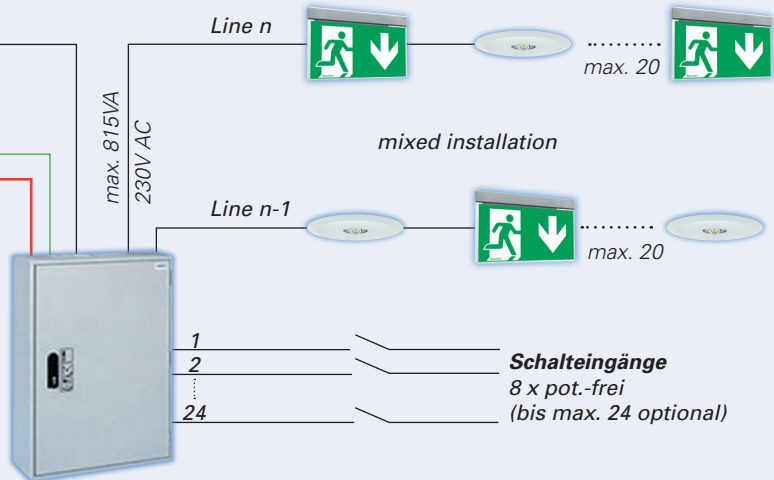
J-Y(St)Y 2x2x0,8

J-Y(St)Y 2x2x0,8
3 x ... E30



Diesel generator / transformer

system BUS



I-Connect16
3-phase BUS monitor
max. 6 assigned to each substation

J-Y(St)Y 2x2x0,8



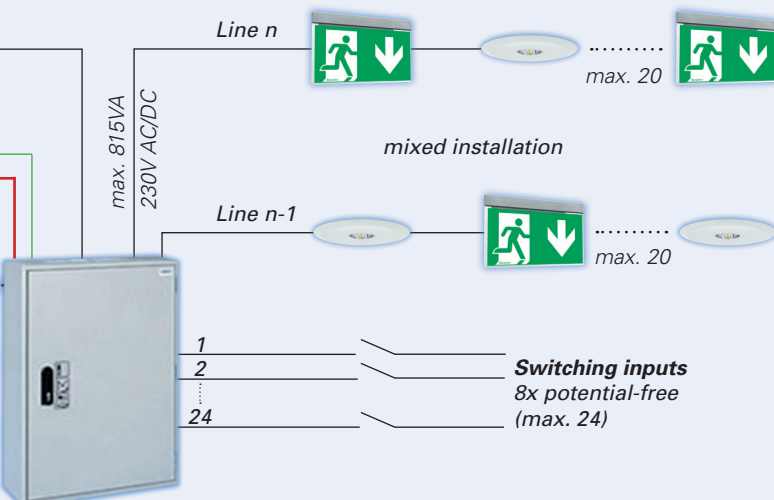
I-Con16
3-phase monitor

J-Y(St)Y 2x2x0,8

J-Y(St)Y 2x2x0,8
3 x ... E30

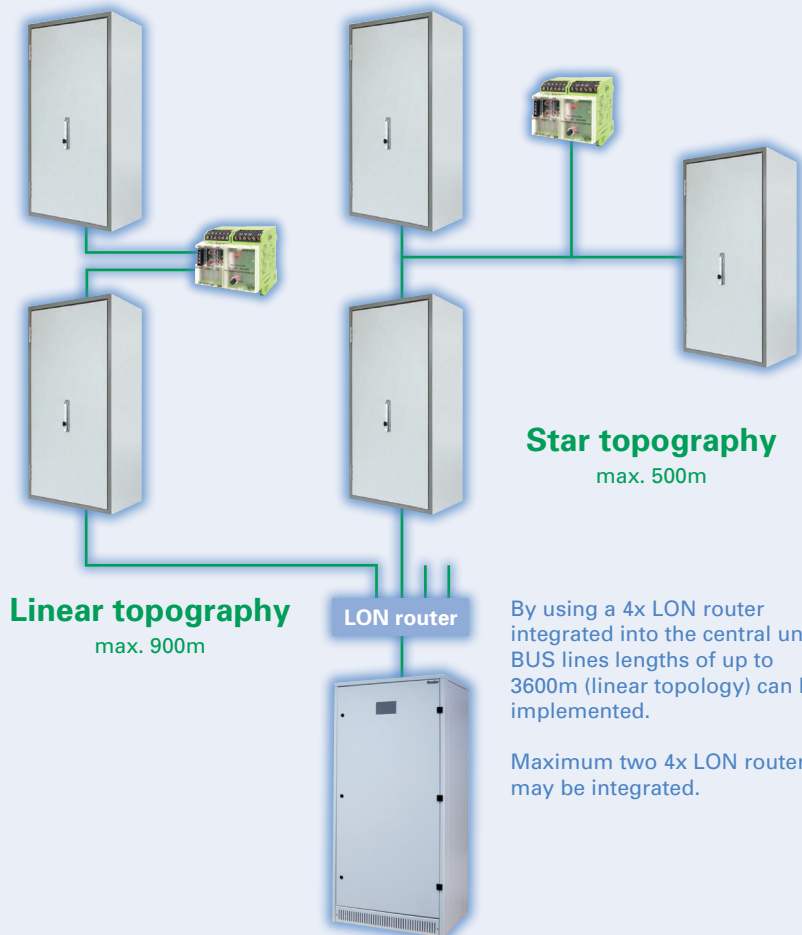
3 x ... E0

Electricity meter (optional)



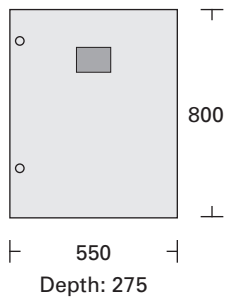
BUS line lengths

for star and linear topography



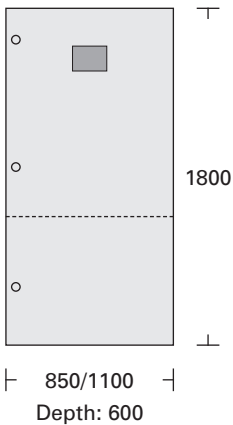
Housing dimensions

Wall mounting model



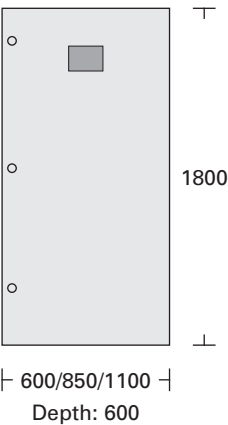
Dimensions H x W x D (mm)	max. lines (2-pol.)
800x550x275	20

Combined model



Dimensions H x W x D (mm)	max. lines (2-pol.)
1800x850x600	40
1800x1100x600	60

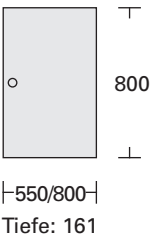
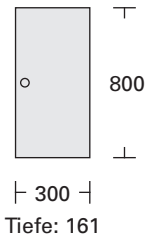
Device housing



Dimensions H x W x D (mm)	max. lines (2-pol.)
1800x600x600	40
1800x850x600	60
1800x1100x600	80

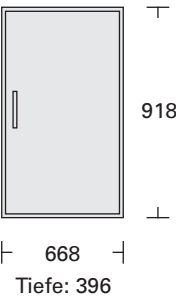
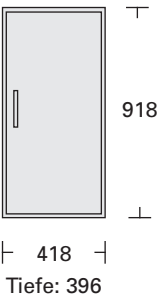
Substation (E0)

Color: RAL 9010 / Protection class: IP43



Dimensions H x W x D (mm)	max. lines (2-pol.)
800x300x161	20
800x550x161	40
800x800x161	60

Substation (E30)



Dimensions H x W x D (mm)	max. lines (2-pol.)
918x418x396	20
918x668x396	40
on request	60



German regulations and standards

Statutory rules & regulations



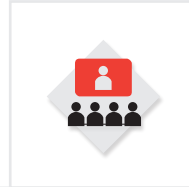
Page 110

Requirements for emergency lighting systems



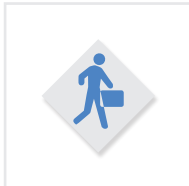
Page 111

Places of assembly



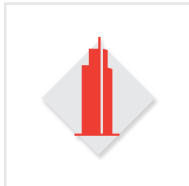
Page 112

Sales premises



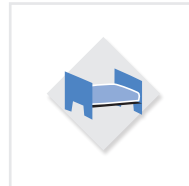
Page 113

High-rise buildings



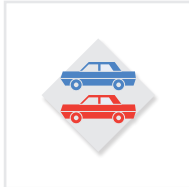
Page 114

Hotels, hostels, homes



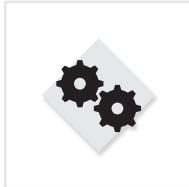
Page 115

Indoor parking



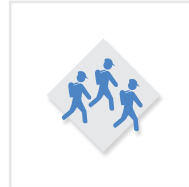
Page 116

Workplaces



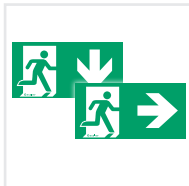
Page 117

Schools



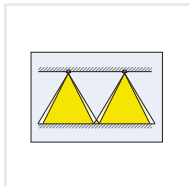
Page 118

Escape route signs



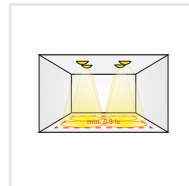
Page 119

Emergency lighting conforming to DIN 1838



Page 120

Anti-panic lighting conforming to DIN 1838



Page 121

Installation



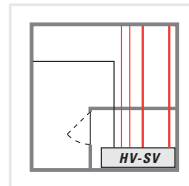
Page 122

Maintenance and testing



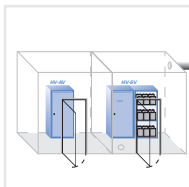
Page 124

Wiring by fire section



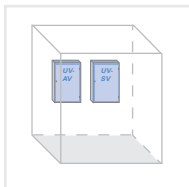
Page 125

Installation of emergency lighting central station HV-SV



Page 126

Installation of emergency lighting substations UV-SV



Page 127



Statutory rules and regulations

Emergency lighting and power supply

DIN EN 50171 - November 2001

DIN EN 50172 - January 2005

VDE 0108 - October 1989

Draft standard
DIN VDE 0108,
part 100,
October 2005

Draft stan-
dard DIN
VDE 0108,
part 100,
August 2007

Prestandard
DIN V VDE
V 0108, part
100, January
2010

Prestandard
DIN V VDE
V 0108, part 100,
August 2010

DIN VDE 0100, part 718, October 2005

DIN VDE 0100-
718, 2014

DIN VDE 0100-560,
March 2011

DIN VDE 0100-560,
October 2013

DIN EN ISO 7010, October 2012

DIN 4844, May 2005

DIN 4844-1 and DIN ISO 3864-1,
June 2012

EN 1838, July 1999

DIN EN 1838,
October 2013

10/2005

03/2007

03/2011

10/2012

10/2013

06/2014



Requirements for emergency lighting systems

DIN V VDE V 0108-100 (prestandard 08/2010)
DIN VDE 0100-560

	Illuminance, lx	Switching time, s	Operating time, h	Emergency sign illumination time	Permissible alternative power sources
Places of assembly, theaters, cinemas	b)	1	3	yes	ZB GB EB EA ¹ EA ²
Theater stages	3	1	3	yes	ZB GB EB EA ¹ EA ²
Sales premises	b)	1	3	yes	ZB GB EB EA ¹ EA ²
Restaurants	b)	1	3	yes	ZB GB EB EA ¹ EA ²
Hotels, hostels, homes	b)	15 a)	3 / 8 e)	yes	ZB GB EB EA ¹ EA ² EA ³
Schools	b)	15 a)	3	yes	ZB GB EB EA ¹ EA ² EA ³
Indoor parking	b)	15	1	yes	ZB GB EB EA ¹ EA ² EA ³
High-rise buildings	b)	15 a)	3 d)	yes	ZB GB EB EA ¹ EA ² EA ³
Escape routes at workplaces	b)	15	1	no	ZB GB EB EA ¹ EA ² EA ³ 2N
Workplaces with special hazards	b)	0,5	c)	yes	ZB GB EB EA ¹ EA ² 2N
Exhibition halls	b)	1	3	yes	ZB GB EB EA ¹ EA ²
Airports, railway stations	b)	1	3 f)	yes	ZB GB EB EA ¹ EA ²

a) Depending on panic risk and risk assessment, from 1s to 15s.

b) Illuminance of emergency lighting according to DIN EN 1838

c) Time during which there is a risk to persons.

d) 8 hours for residential high-rise buildings, unless circuit is designed according to e).

e) 3 hours is sufficient, if the circuit is timer-controlled through illuminated buttons.

f) For overground areas in railway stations, 1 hour might be sufficient, depending on the actual evacuation plan.

ZB Central battery systems

GB Group battery systems

EB Individual battery systems

2N Second mains supply

EA¹ Generator set ($\Delta U=0s$)

EA² Generator set ($\Delta U=\max. 0,5s$)

EA³ Generator set ($\Delta U=\max. 15s$)



Places of assembly

German model ordinance governing the construction and operation of places of assembly (06/2005)

Places of assembly with an assembly room for	> 200 people (individually or combined)
Places of assembly with outdoor stage area (no roof)	> 1000 people
Sport stadiums	> 5000 people
Restaurants	> 200 people

The number of people is to be calculated as follows:

For seating at tables:

1 person per m2 of assembly room floor area.

For row seating/non-seated venues:

2 persons per m2 of assembly room floor area.

For non-seated venues, staged area:

2 persons per meter of row level.

In exhibition rooms:

1 person per m2 of assembly room floor area.



3 h



maintained



non-maintained

For rooms that are normally dark, such as stages, etc. the emergency lighting must be operated in **non-maintained mode**. It must be possible to complete work to be performed on stage safely.

The non-maintained mode must be manually reset.

Doors, corridors and steps in the room must be marked in **maintained mode**. Switched continuous lighting is not permissible in assembly rooms.

The following areas must be equipped with emergency lighting:

- Electrical and building technology rooms
- Corridors, hallways, stairwells and building exits
- Assembly rooms, publicly accessible rooms (foyers, toilets, cloak rooms, changing rooms)
- Stages > 20m2 (3lx)
- Rooms used by exhibitors and employees > 20m2 (exception: offices)
- Rehearsal rooms, ballet rooms, workshops, storage rooms, etc.
- Outdoor assembly areas and sports stadiums that are used during darkness
- Step illumination is not required for seating rows in assembly rooms with movable seating or for sport stadiums with emergency lighting
- Emergency exit signs and step illumination
- Outdoor areas extending to public traffic areas

► **Approved systems:** Central battery Group battery Individual battery Generator set, ΔU_{max} . 0,5s

The respective German State Building Regulations, any restrictions in the building permission and the fire safety concept must be adhered to.





Sales premises

German model ordinance governing sales premises (09/1995)

Sales premises

with sales rooms with useful area

> 2000m²



3 h



maintained



non-maintained

§18 Emergency lighting

The following areas must be equipped with emergency lighting:

- Electrical and building technology rooms
- Sales rooms
- Corridors and hallways accessible to customers, stairwells, extensions, etc.
- Toilets > 50m²
- Work and staff rooms
- Exit signs and step illumination
- Storage areas according to ASR 7/4

► Approved systems:

Central battery

Group battery

Individual battery

Generator set, ΔU_{\max} 0,5s

The respective German State Building Regulations, any restrictions in the building permission and the fire safety concept must be adhered to.





High-rise buildings

German model regulations for high-rise buildings (04/2008)

High-rise buildings are buildings where the floor area of minimum one living room is located **more than 22 m** above the ground level

$h \geq 22\text{m}$



3 h



maintained



non-maintained

Stairwells must be equipped with at least one properly lit emergency exit sign at every floor level.

The following areas must be equipped with emergency lighting:

- Electrical and building technology rooms
- Hallways and stairwells
- Rooms between stairwells and building exits
- Emergency signs indicating exits
- Steps in hallways

Two types of systems are permissible:

- A) Where automated stairwell light circuits with illuminated buttons are installed, the battery just last at least 3 hours.
- B) If no such timer-controlled lighting systems are installed in stairwells, the battery must last for at least 8 hours.

► **Approved systems:**

Central battery

Group battery

Individual battery

Generator set, $\Delta U_{\text{max. 15s}}$

► **Requirements:**

$\Delta t \leq 15 \text{ sec.}$

1-15s, depending on panic risk

The respective German State Building Regulations, any restrictions in the building permission and the fire safety concept must be adhered to.







Hotels, hostels, homes

German model ordinance governing accommodation establishments (12/2000)


Accommodation establishments	> 12 guest beds



3 h / 8 h



maintained



non-maintained

Two types of systems are permissible:

A) Where automated stairwell light circuits with illuminated buttons are installed, the battery just last at least 3 hours.

B) If no such timer-controlled lighting systems are installed in stairwells, the battery must last for at least 8 hours.

The following areas must be equipped with emergency lighting:

- Electrical and building technology rooms
- Hallways and stairwells
- Rooms between stairwells and building exits
- Emergency signs indicating exits
- Steps in hallways

► **Approved systems:** Central battery Group battery Individual battery Generator set, ΔU_{\max} 15s

► **Requirements:** $\Delta t \leq 15 \text{ sec.}$
1-15s, depending on panic risk

The respective German State Building Regulations, any restrictions in the building permission and the fire safety concept must be adhered to.





Indoor parking

German model ordinance governing parking facilities (05/2008)

Large indoor parking facilities

(not including single-story large parking facilities used by tenants only) with useful area

> 1000m²



1 h



maintained



non-maintained

The following areas must be equipped with emergency lighting:

- Electrical and building technology rooms
- Traffic lanes
- Pedestrian areas along entrance and exit routes
- Ramps
- Stairs and pedestrian areas to and from pedestrian exists

► Approved systems:

Central battery

Group battery

Individual battery

Generator set, ΔU_{\max} 15s

► Requirements:

$\Delta t \leq 15 \text{ sec.}$

The respective German State Building Regulations, any restrictions in the building permission and the fire safety concept must be adhered to.





Workplaces

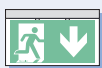
German technical rules for workplaces ASR A1.3 (2013), ASR A2.3 / ASR A3.4/3 (2011), BGR 216 (07/2001)

Workplaces include:

Work and storage rooms with floor space	$\geq 2000\text{m}^2$
Work and staff rooms, located at a height	$\geq 22\text{m}$ above the ground floor
Rooms exposed to explosive, toxic or radioactive substances* with floor space	$\geq 100\text{m}^2$
High-risk labs* with floor space	$\geq 600\text{m}^2$
Stairwells serving as escape routes for	> 50 persons



1 h



non-maintained



non-maintained

Escape routes must be equipped with an emergency lighting system that provides sufficient light to enable workers to leave the building safely, even if the general lighting system has failed.

The following areas must be equipped with emergency lighting:

- Electrical and building technology rooms
- Hallways and stairwells
- Rooms between stairwells and building exits
- Emergency signs indicating exits
- Steps in hallways
- Windowless rooms without daylight

► **Approved systems:** Central battery Group battery Individual battery Generator set, ΔU 0,5s - 15s Secured mains

► **Requirements for 1st and 2nd escape route:**

$E \geq 1 \text{ LUX}$

$\Delta t = 15\text{s } 100\%$

*) **Forderungen bei Unfallgefahr:**

$E \geq 15 \text{ LUX}$

$\Delta t = 0,5\text{s } 100\%$



Minimum supply time must correspond to duration of actual exposure to risk.

The respective German State Building Regulations, any restrictions in the building permission and the fire safety concept must be adhered to.

The fire safety regulations do not apply to the installation of the safety lighting unit.



Schools

German model regulations for school buildings (07/1998)

These regulations apply to the construction and operation of:

General and vocational schools and colleges, unless they are designed exclusively for the teaching of adults.



3 h



maintained



non-maintained

The following areas must be equipped with emergency lighting:

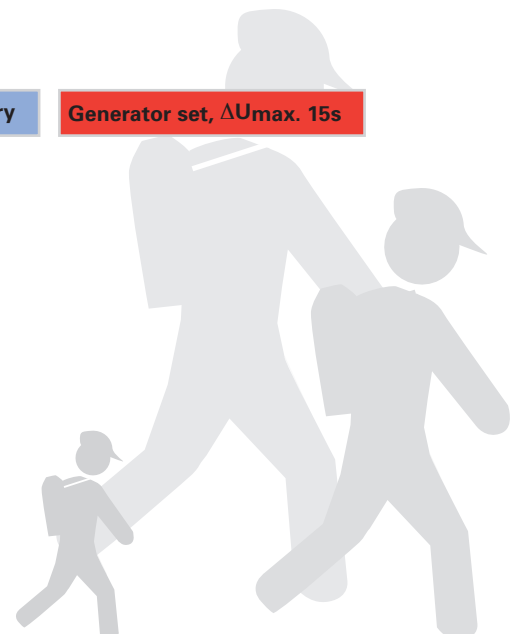
- Electrical and building technology rooms
- Corridors and hallways
- Stairwells
- Windowless rooms and rooms that are darkened

For assembly rooms (auditoriums), also observe the regulations in the model ordinance governing the construction and operation of places of assembly.

► **Approved systems:** Central battery Group battery Individual battery Generator set, ΔU_{\max} . 15s

► **Requirements:** $\Delta t \leq 15 \text{ sec.}$
1-15s, depending on panic risk

The respective German State Building Regulations, any restrictions in the building permission and the fire safety concept must be adhered to.





Escape route signs

Permissible emergency signs according to DIN EN ISO 7010 & DIN ISO 3864



IPO



IPRO



IPR



IPRU



IPU



IPLU



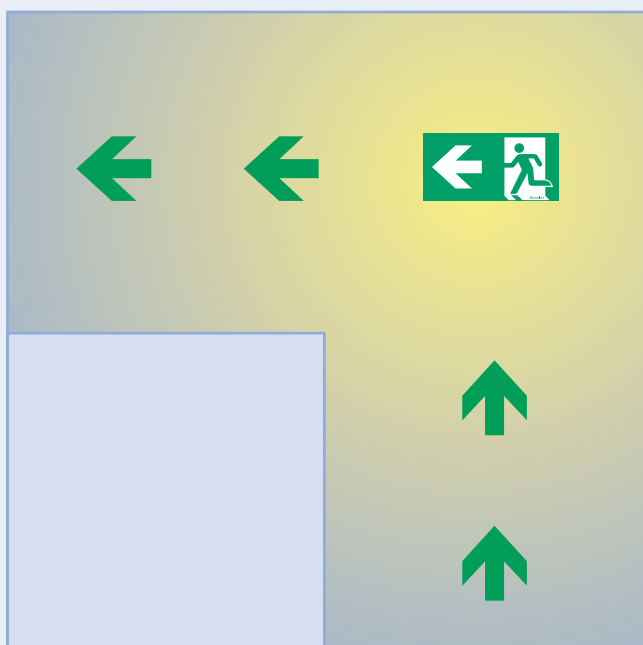
IPL



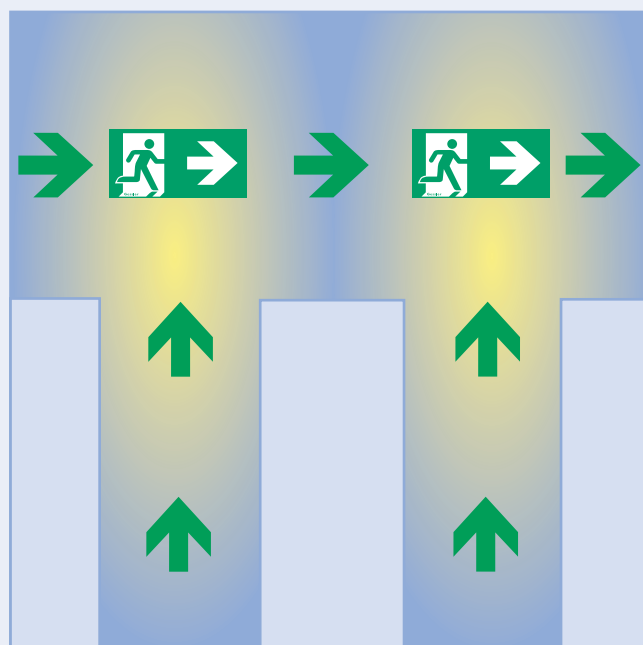
IPLO

Emergency signs must be installed at the following locations:

At each change of direction



At each crossing of corridors

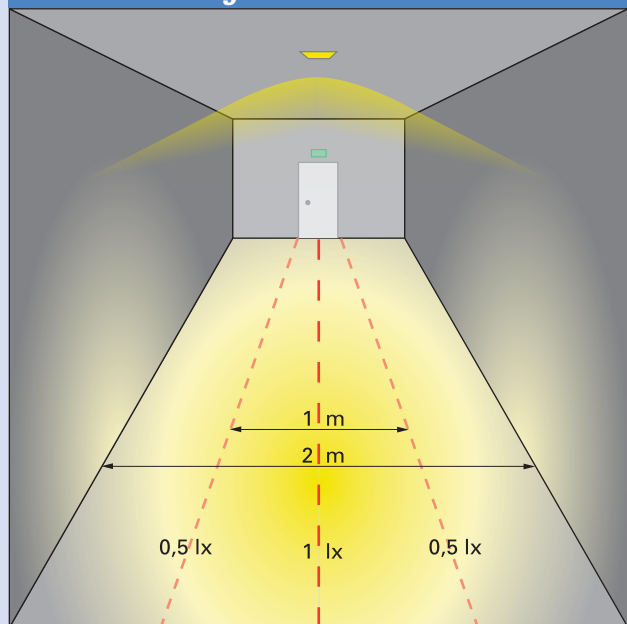




Emergency lighting

DIN EN 1838, DIN 4844

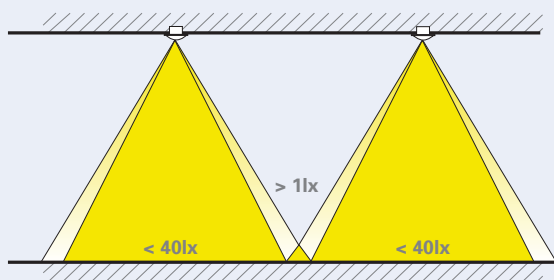
Escape route lighting according to DIN EN 1838 4.2.1



Illuminance of escape route lighting according to EN 1838:

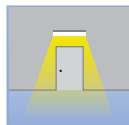
For escape routes up to 2m in width, the horizontal illuminances on the floor along the middle line of an escape route shall not be less than 1 lx. The central band consisting of not less than half of the width of the route shall be illuminated to a minimum of 50% of that value.

Ratio of maximum to minimum illuminance according to DIN EN 1838 4.2.2 / 4.3.2



Given that eyes adapt only slowly, the ratio of maximum to minimum illuminance must be maximum 40:1.

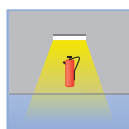
Emergency lighting devices must be installed at the following points:



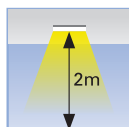
Near each exit door (max. distance 2m)



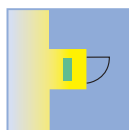
Near each first aid post (max. distance 2m)



Near each piece of firefighting equipment and call point (max. distance 2m)



Min. 2m above floor level



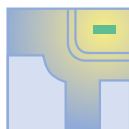
Near each exit door intended to be used in an emergency (max. distance 2m)



At all emergency exits and equipped with an escape sign



Near stairs so that each flight of stairs receives direct light (max. distance 2m)



Near any other change in level (max. distance 2m)



Anti-panic lighting

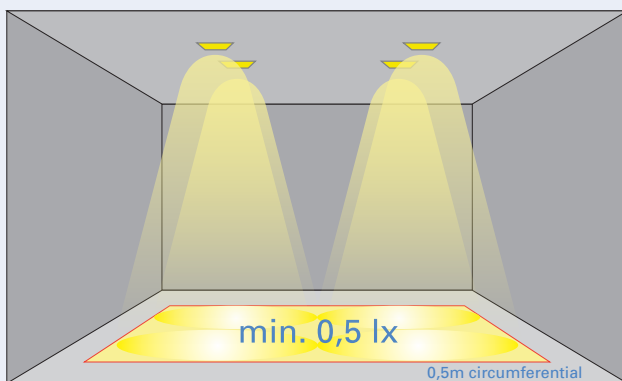
DIN EN 1838 (4.3.1 / 4.1.2 / 4.3.2)

DIN EN 50172

Anti-panic lighting devices must be installed at the following points:

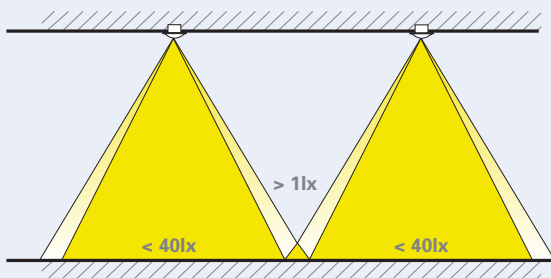
- ▶ In areas (e.g. halls/conference rooms) $> 60\text{m}^2$ without dedicated escape routes
- ▶ In small areas where there might be an increased risk of panic due to large assemblies of people (e.g. lifts)

Illuminance of anti-panic lighting according to EN 1838



Lifts designed for the transport of people must also be equipped with anti-panic lighting

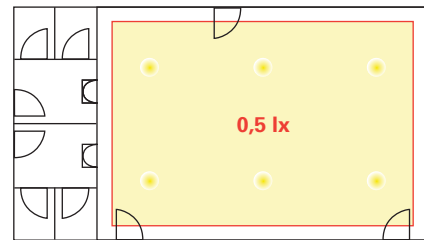
Ratio of maximum to minimum illuminance according to DIN EN 1838 4.2.2 / 4.3.2



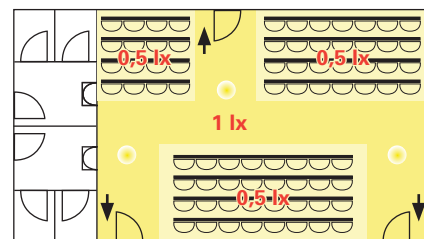
Given that eyes adapt only slowly, the ratio of maximum to minimum illuminance must be maximum 40:1.

Examples of anti-panic lighting in rooms $> 60\text{m}^2$

Anti-panic area $> 60\text{m}^2$ without designed escape route



Anti-panic area $> 60\text{m}^2$ with designed escape route





Installation

German model ordinance governing operational facilities for electrical installations *EltBauVO §4 (01/2009)*
DIN VDE 0100-560 (03/2011)

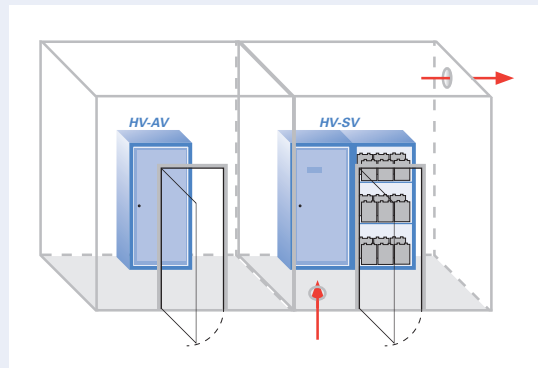
Anforderungen an elektrische Betriebsräume Muster EltBauVo §4 (01/2009)

- 4.2** Operational facilities for electrical installations must be large enough for the proper installation and operation of the equipment.

Clear height min. 2m

- 4.3** Operational facilities for electrical installations must be suitably ventilated.

- 4.4** The facility must not house lines and equipment that are not required for the operation of the respective electrical installations.



Signaling equipment according to DIN VDE 0100-560 (03/2011)



- 6.14 und 9.14** Signaling equipment indicating the system state at a centralized, permanently monitored point (during operating hours).

Messages:

- ▶ System ready for operation
- ▶ System supplied from source for emergency operation (battery operation)
- ▶ System faulty

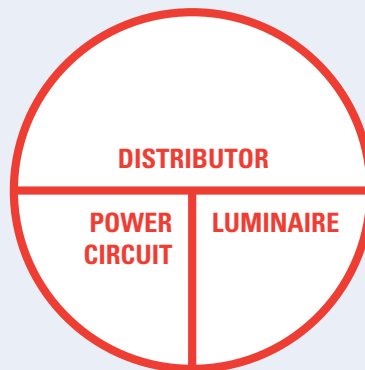


Installation

DIN VDE 0100-560 (03/2011)

DIN VDE 0108-100 (prestandard 08/2010)

Identification according to DIN VDE 0100-560 (03/2011) & DIN VDE 0108-100 (prestandard 08/2010)



DIN VDE 0100-560

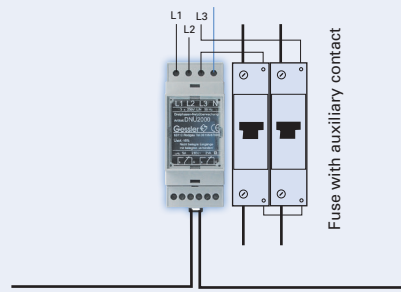
9.15 Emergency lighting luminaires and associated switchgear must be labeled with a red sign with a diameter of min. 30mm.

DIN VDE 0108-100

5.5 Near the luminaires, the respective distributor, circuit and luminaire number must be indicated.

Monitoring of AV circuit by means of automated testing according to DIN VDE 0100-560 (03/2011)

Monitoring of AV circuit
(3-phase) by means of automated testing



9.5 In non-maintained mode, the power supply for general lighting must be monitored for each section of the final circuit. If a power failure in the power supply for general lighting results in a failure of the general lighting in an area, the emergency lighting system must be automatically switched on. The operator must take measures that ensure that a general power failure results in the activation of the emergency lighting system in at least one of the affected areas.



Maintenance and testing

DIN EN 50172
DIN VDE 0100-718



- i** - All test must be performed by a named person appointed by the operator
- Test logs must be filed for minimum 4 years (also applies to logs in electronic format)

	Central battery	Group battery	Individual battery
INITIAL TESTS			
	Measurement of lighting system values according to DIN 5035-6		
	Testing of power sources, including switchgear and control gear		
	Testing of battery compartment ventilation		
	Selectivity testing		
DAILY TESTS			
	Visual inspection of indicators and displays (e.g. at signaling panel) of power supply system (function test)		
	The results of this inspection (with date) must be recorded in the test log**		
WEEKLY TESTS*			
	Function testing of emergency lighting by switching on emergency power source; all luminaires must be checked for proper functioning.		
	The results of this inspection (with date) must be recorded in the test log**		
MONTHLY TESTS*			
	Testing of monitoring equipment		
	Testing of all indicators at all signaling devices		
	Switching over of each emergency lighting luminaire to battery/SV mode by simulating a failure of the general lighting power supply for a time that is sufficient for all luminaires to be lit		
	The results of this test (with date) must be recorded in the test log		
ANNUAL TESTS*	For these tests, the system must not be automatically triggered. The annual test must always be triggered manually.		
	Testing of all indicators at all signaling devices		
	Function test of charging equipment		
	Each luminaire and all backlit signs must be tested for the entire specified operating time. During this time period, all luminaires and signs must be checked to ensure that they are in place, clean and working properly.		
	Battery test according to DIN EN 50272-2 (VDE 0510-2)		
	Check of all settings and capacity test of system		
	The results of this test (with date) must be recorded in the test log		
EVERY 2 YEARS*			
	Illuminance measuring according to DIN 5035-6		

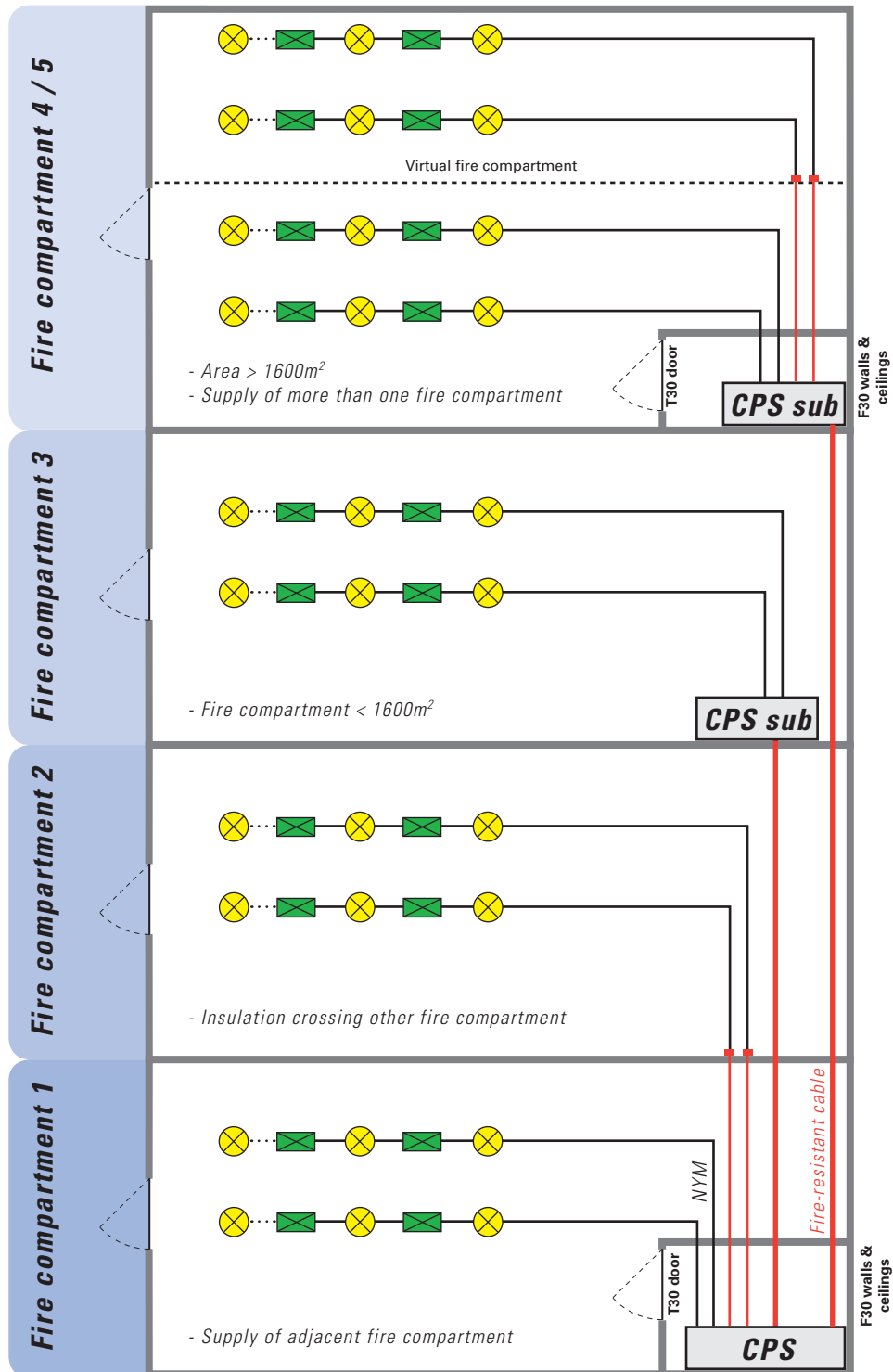
*) tests extending over longer periods must only be performed at times where there is a minimum risk to persons and property

**) only required, if it is not possible to use an automated testing system



Wiring of fire compartments

according to guideline on fire protection requirements for conduits LAR



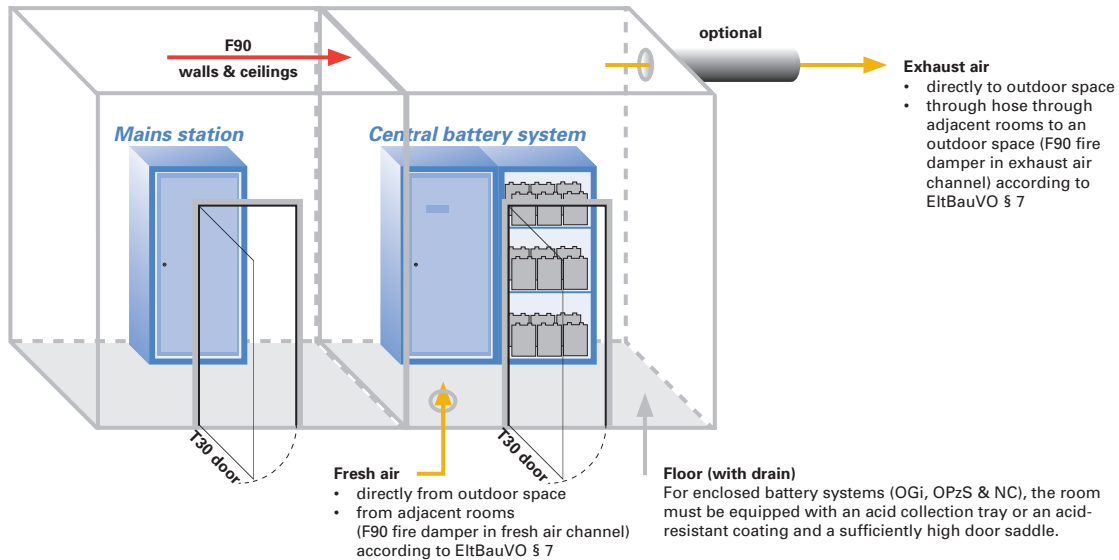
Observe the requirements laid down in the German State Building Regulations.



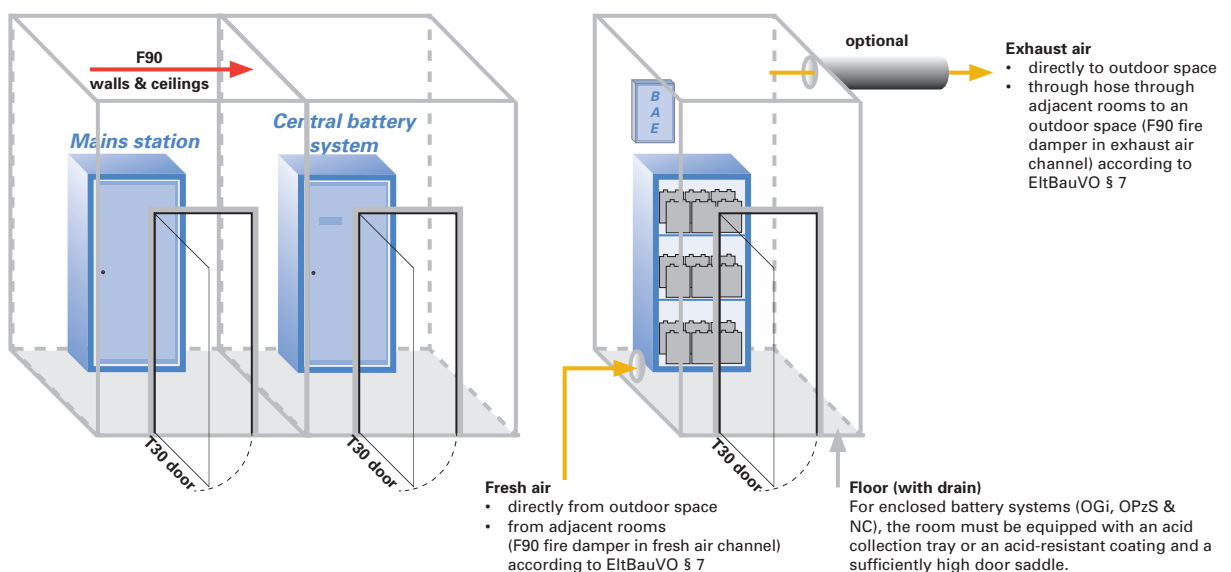
Installation of central power supply system

according to German state regulations, DIN EN 50272-2
EltBauVO §4, §7

Example 1



Example 2



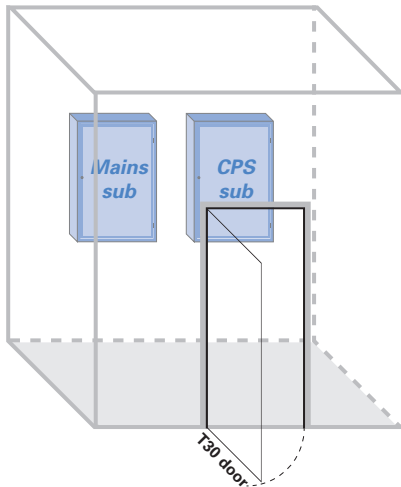
These fire safety requirements do not apply to industrial workplaces.
Observe the requirements laid down in the German State Building Regulations.



Installation of substations

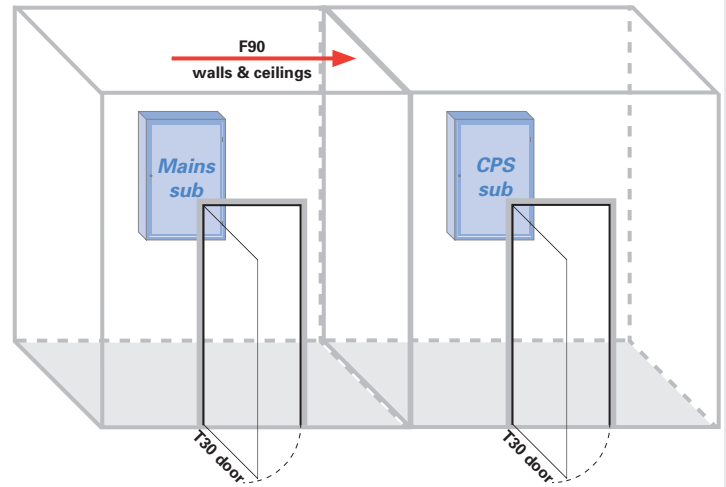
Model guideline on fire protection requirements for conduits (MLAR)
11/2005
EltBauVO §4

Examples



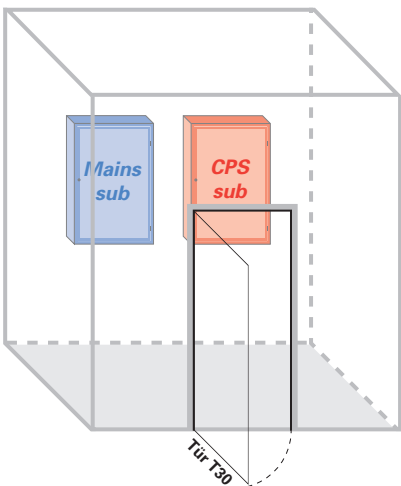
CPS sub supplies:

- single floor in fire compartment < 1600m²



CPS sub supplies:

- multiple fire compartments
- multiple floors
- fire compartment > 1600m²



CPS sub supplies:

- multiple fire compartments
- multiple floors
- fire compartment > 1600m²



According to MLAR 11/2005 (section 5.2.2), a fire compliance certificate must be submitted, certifying that the system works properly in the event of a fire. The functional integrity of the electrical installation is established through a type test, using an approved housing.

Guaranteed safety of distribution cabinets with Gessler equipment thanks to testing by MPA Stuttgart.



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