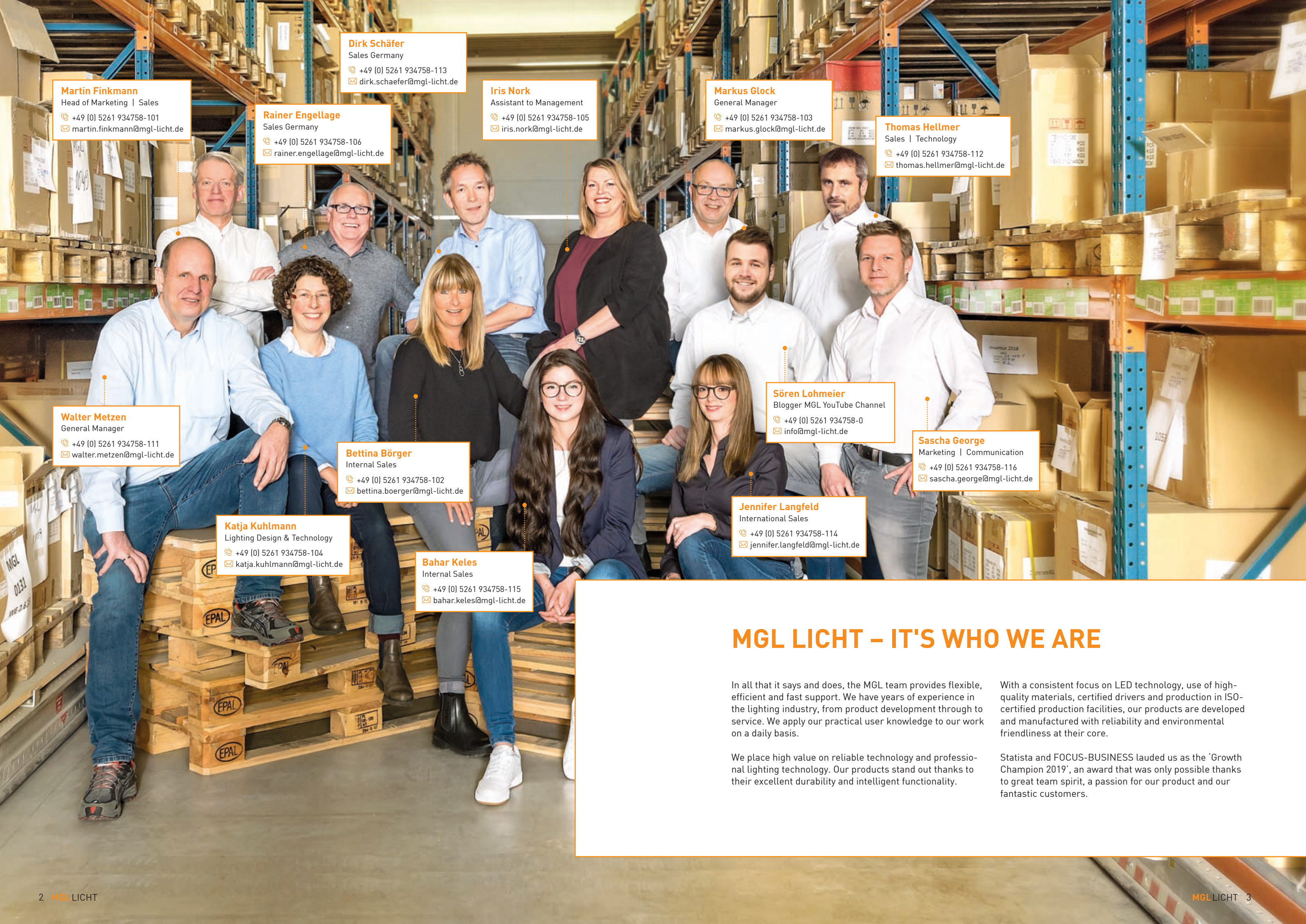


SIMPLY
GOOD
LED LUMINAIRES



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MGL LICHT – IT'S WHO WE ARE

In all that it says and does, the MGL team provides flexible, efficient and fast support. We have years of experience in the lighting industry, from product development through to service. We apply our practical user knowledge to our work on a daily basis.

We place high value on reliable technology and professional lighting technology. Our products stand out thanks to their excellent durability and intelligent functionality.

With a consistent focus on LED technology, use of high-quality materials, certified drivers and production in ISO-certified production facilities, our products are developed and manufactured with reliability and environmental friendliness at their core.

Statista and FOCUS-BUSINESS lauded us as the 'Growth Champion 2019', an award that was only possible thanks to great team spirit, a passion for our product and our fantastic customers.

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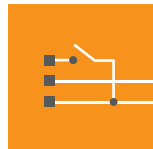
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PARTNERS EXPECT RELIABILITY

Trust is the foundation of a partnership. Receiving trust is like being given a gift, but trust is a gift with expectations. Those expectations need to be met through reliability. Mutual reliability creates mutual trust, which in turn is the basis of every partnership. Every day we work to meet the expectations set by our partners for our products and services.



LIGHTING AS AN ARCHITECTURAL DESIGN ELEMENT

The complete MGL product range goes beyond just 'lights for everyday business'. Universal downlights are complemented by recessed luminaires for special applications. The wall and ceiling luminaire range now includes models with a design flair. The panel range has versions that are optimised for energy-efficiency renovation projects. MGL spotlights have been given a timeless design thanks to geometrical housing elements and are now as well

available as miniaturised models. The application area for technical luminaires has been extended to include moisture-proof luminaires. And for lighting around the grounds, there are new surface-mounted luminaires and lighting columns for even more choice and individual design possibilities. The 2019 product range shows that MGL products can accommodate the lighting needs of entire building projects.

MGL LICHT

Find up-to-date product information and technical data sheets on our homepage:
www.mgl-lighting.com



User knowledge available on PC, tablet and smartphone. Find installation videos on YouTube under the search term 'MGL-LICHT'.

OFFICE



INDUSTRY



SHOWROOM



AROUND THE GROUNDS



MGL LICHT – DIFFERENT FROM THE OTHERS



MODULAR SYSTEM

- A selection of drivers for downlights and panels
- Switchable and dimmable drivers (DALI, 1–10 V, PUSH DIM, PHASE DIM)
- Driver matrices make individual selection reliable
- Extension Lines and Multi Connectors available as accessories



ADJUSTABLE LUMINOUS FLUX

- Selection of switchable drivers with adjustable operating current
- Luminous flux can be set during installation
- Subsequent adjustment by electrician possible



RENOVATION LUMINAIRE (Pages 48, 84, 100)

- Downlights and panels as retrofit luminaires
- Precisely-tailored to existing ceiling cut-outs
- No business interruption; no painter, no drywall needed



PANEL RANGE (Page 89)

- Attractive starting price for investors (110 lm/W)
- Attractive energy efficiency for operators (130 lm/W)
- Attractive colour rendition for users (CRI >90)
- Attractive retrofit models for renovations



MOISTURE-PROOF LUMINAIRES (Page 120)

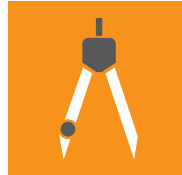
- Two product ranges, one standard technology
- Slim design
- Flexible mounting options
- Practical installation



GUARANTEED PRODUCT QUALITY (Page 190)

- 5-year guarantee for indoor luminaires
- 3-year functional guarantee for outdoor luminaires

OUR FIELDS OF EXPERTISE



PRODUCT DEVELOPMENT

- We work closely with our production partners and independent labs in the areas of design, development and testing for LED luminaires and electronic components.
- We also work in partnership with the OWL University of Applied Sciences.
- Thanks to our active partner network, we have a high degree of expertise when it comes to implementing product-specific solutions.



PRODUCTION

- We use modern production methods ranging from mechanics and plastics technology to electronics and assembly in ISO-certified plants.
- These plants run in accordance with internationally recognised standards.
- MGL employees on site also ensure that these standards are observed.



PRODUCT QUALITY

- We offer a five-year manufacturer's guarantee for indoor products.
- A three-year functional guarantee applies to outdoor products.
- TCI Italy is our development and supply partner for drivers.
- All MGL spotlights are equipped with EUTRAC universal adapters.



ADVICE AND PLANNING

- We provide solution-based support to our partners.
- On site sampling is carried out in close cooperation with our partners.



SALES

- As a reliable partner we are available to provide advice to all parties involved in the project.
- We offer comprehensive professional support to the electricians commissioned to execute the project, from planning and implementation to training and advice on site.

OUR QUALITY CRITERIA



MATERIALS

The materials selected for MGL products are determined by their technical, commercial, aesthetic and – last but not least – ecological properties. Using LEDs significantly reduces heat generation compared to conventional light sources. Even if it is technically feasible, MGL does not automatically choose to use plastic components. The properties of metal make it the best choice for dissipating heat in order to protect the electronics and also contribute to the durability and functionality of the overall product.



TECHNOLOGY

LED technology has brought about profound change for the entire industry, affecting luminaire development and lighting design, right through to its application. Our expert team has years of experience and excellent contacts in the luminaire sector. Collaboration with our partners for premium components and production in certified production facilities result in sophisticated products for reliable day-to-day use.



LIGHTING TECHNOLOGY

Lighting technology starts with clearly defined requirements. It is determined by the field of application, stipulations in standards and the user's aesthetic sensibilities. MGL works with independent lighting labs to adapt LEDs, reflectors and light-directing components to ensure fast and targeted product development with efficient lighting technology. Photometric data (LDT data) for each LED luminaire is available on our portal. This data allows designers to carry out precise lighting calculations. Expert colleagues from MGL Licht are happy to advise the architect and electrician in the project design phase.



COLOUR RENDITION

Light and colour determine the atmosphere and the well-being of those in the room. Natural colour rendition is an important task of good artificial lighting. This applies for colour detection in fashion, for well-being in medical and spa environments, for correct evaluations at inspection stations, and for achieving the right colour tones in cosmetic applications. The colour rendering index (CRI) is used to assess colour rendition. The CRI is derived from frequently-occurring test colours and indicates how natural colours are rendered. A general rule of thumb is that the higher the CRI, the more naturally the colours are rendered. In indoor spaces, the CRI should not be below 80, MGL products that achieve CRI >90, beyond the limit of CRI >80, are marked with the icon shown here.



OUR COOPERATIVE PARTNERSHIPS

Hochschule Ostwestfalen-Lippe *University of Applied Sciences*

With excellent teaching and an established research track record, the OWL University of Applied Sciences has developed a unique range of courses and excellent research projects with huge outreach at its campuses over the years. Each campus works intensively with the local economy and maintains a number of successful cooperative partnerships. Cooperation with MGL Licht has resulted in interesting projects in the lighting lab at the OWL University of Applied Sciences, where special focus has been applied to lighting design and interior design. The practical exchange arising from these projects enriches students'

academic careers and utilises the capabilities of these talented young designers to produce innovative results.

The labs in the specialist field of machine technology and mechatronics at the Lemgo campus focus on a wide range of topics. MGL LICHT commissions these labs to carry out material tests, heat measurements and analyses. Endurance tests are conducted throughout the product development process, accompanied by simulations, in order to achieve good thermal management for the luminaire. The documented results allow us to optimise the functionality and durability of our products.



To tackle the new technical and design challenges in the field of lighting and luminaire design, the Detmolder Schule is expanding and modernising its lighting lab, thereby creating the basis for its 'Master of Lighting Design' degree course. Through this existing cooperative partnership, MGL LICHT benefits from the excellent technical facilities and specialist expertise. Our priorities focus on optimising products through the development phase and conducting photometric measurements. Our team even includes some graduates from the Detmolder Schule.

www.hs-owl.de

OUR COOPERATIVE PARTNERSHIPS

SCHÜCO

The Schüco Technology Centre has been a DAkkS/ILAC-accredited test lab since 2005, specialising in building envelope test procedures. The technology centre is accredited by the German National Accreditation Body (DAkkS) as an independent manufacturer lab. All tests are therefore conducted with the objectivity required for accurate and trustworthy results. Each year over 40 employees perform several hundred tests, starting with small components right up to complete facade elements. From a technical perspective, a wide spectrum of standards have to be met. Custom designs and new solutions often require individual test procedures, which calls for intensive examination of the materials. For this reason, Schüco has been supporting all product developments with its own tests for more than 50 years, in a constantly growing technology and test centre that also helps our partners with their project-specific testing.

www.schueco.de/technologiezentrum



MGL LICHT sends its outdoor luminaires for testing in the Schüco Technology Centre in Bielefeld. The products run through different tests here in accordance with standardised test procedures. This is how MGL LICHT tests and documents the quality of the outdoor luminaires and how it is affected by moisture, UV radiation and other environmental influences. Years of use are simulated with the luminaires during testing.

TCI

The driver is the component of an LED luminaire that determines how long its service life will be. MGL Licht relies primarily on its partnership with premium Italian manufacturer TCI here. For over 30 years, TCI has stood for continuous development and pioneering electronic systems. The high quality standard and production processes have been certified under ISO 9001 since 1995, and are certified today under ISO 14001. European approvals such as ENEC or VDE verify the safety and reliability of TCI drivers. As an OEM supplier, TCI is an internationally recognised partner of the lighting industry. TCI executes all of its processes, from development in test labs to production and storage, at its home base in northern Italy. In addition to ensuring technical quality, this means that MGL drivers are available at all times.

www.tcisaronno.com

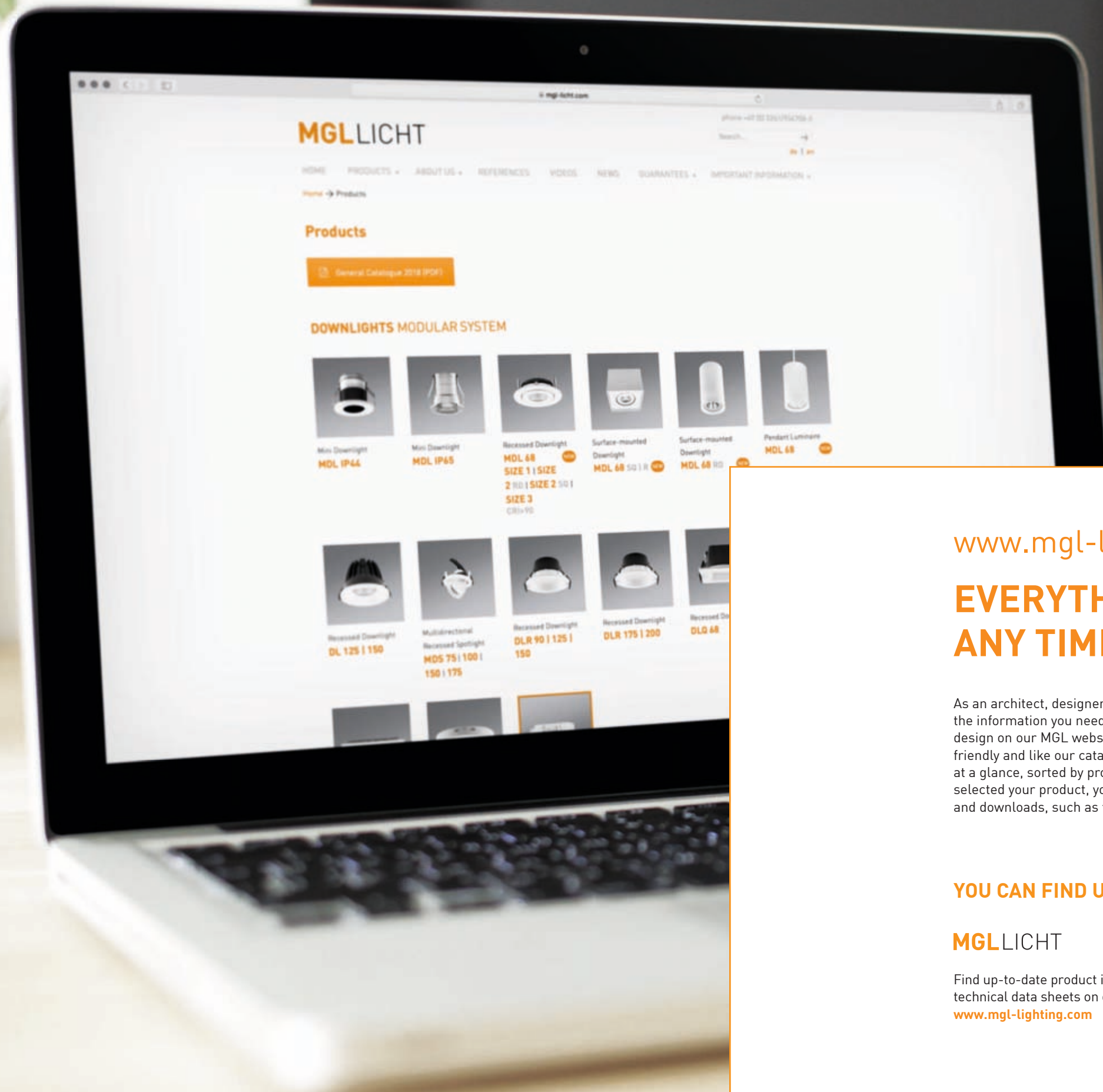


EUTRAC®

A long-standing partner of MGL Licht, EUTRAC is a German manufacturer of tracks and system components like the three-phase universal adapter. Each MGL spotlight is equipped with this ENEC/VDE-approved adapter, making all MGL spotlights compatible with conventional track systems from different manufacturers. EUTRAC point outlets further increase the flexibility of this product. The plastic parts of the EUTRAC adapters are made of self-extinguishing polycarbonate and all spring contacts are made of highly conductive material. The surfaces ensure high transfer reliability and guarantee a long system service life.

www.eutrac.de





www.mgl-lighting.com

EVERYTHING YOU NEED. ANY TIME. ANYWHERE.

As an architect, designer or electrician, you'll find all of the information you need for your professional lighting design on our MGL website. The product overview is user-friendly and like our catalogue, it shows all MGL products at a glance, sorted by product category. Once you've selected your product, you'll find all available information and downloads, such as technical data sheets, technical

lighting data, installation instructions and much more, at one central place on the product page.

If you have questions or require more information that is not yet available on our website, feel free to contact us by telephone on **+49 (0) 5261 9347580**.

YOU CAN FIND US ON THESE PORTALS:

MGL LIGHT

Find up-to-date product information and technical data sheets on our homepage:
www.mgl-lighting.com



User knowledge available on PC, tablet and smartphone. Find installation videos on YouTube under the search term 'MGL-LIGHT'.

USER-FRIENDLY. INFORMATIVE. USEFUL.

SEARCH BY ARTICLE NUMBER OR KEYWORD

Looking for information on a specific product? Use our practical search function found at the top right-hand corner in the header of each webpage. In addition to being able to select products from the overview, you can also search for products using certain keywords or specific article numbers.*

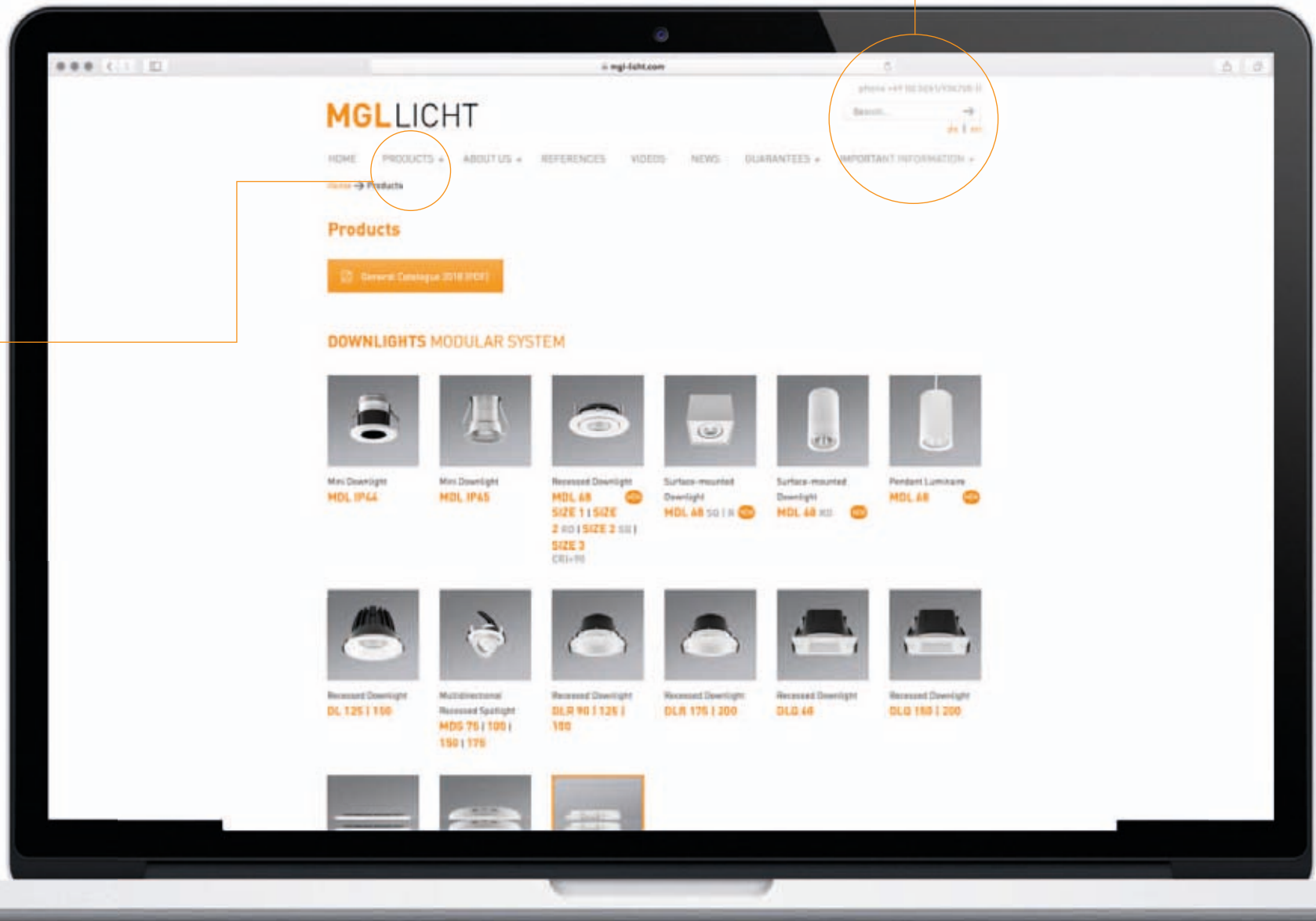
Simply enter and select for information.

PRODUCT OVERVIEW

You can access the product overview by selecting the PRODUCTS option. If you want to refine your selection straight away, you can also choose individual product categories directly from this menu.



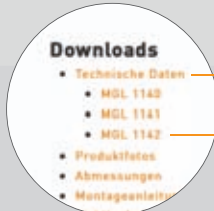
Scan this QR code with your phone to go directly to the product overview.



DOWNLOADS

Access relevant design and planning information and documents conveniently on the product pages:

- Technical data sheets
- Product photos
- Dimensions
- Mounting instructions
- Technical lighting data
- Specification texts



If you want to download all data sheets for the displayed product family, click on TECHNICAL DATA.

To access a specific data sheet for a specific product, click directly on the corresponding article number.

* For technical reasons, the search function only works with terms that appear in the article text. Please ensure that search terms are spelled correctly.

VIDEOS

How do I install the MDL 68 pendant luminaire? How do I change the current feed for the ballast? How do I work with spacers? Learn all this and more in practical how-to videos from our library under VIDEOS.



Scan this QR code with your phone to go directly to the VIDEOS section.

NEWS

Keep up to date. Find out more about publications on reference projects, upcoming trade fairs MGL will be attending and interesting, up-to-date industry information in the NEWS section.



Scan this QR code with your phone to go directly to the NEWS section.

SUPPORT

If you need general technical information, such as information on FUSE PROTECTION FOR DRIVERS or the PUSH DIM FUNCTION, the SUPPORT page is definitely the page for you.



Scan this QR code with your phone to go directly to the TECHNICAL INFORMATION section.



THE MODULAR MGL SYSTEM



ONE SIMPLE COMBINATION – A VARIETY OF LUMINAIRES

By separating the light head and driver, these components can be combined systematically, giving our customers a wide range of different luminaire assemblies to choose from based on just a few parts.

YOUR ADVANTAGES

Our customers benefit from the modular MGL system in a variety of ways. The advantages of this system range from the planning and design stages to purchasing, cost-effectiveness and flexibility at the point of installation.

YOU DECIDE

As the customer you choose from a huge selection of different product ranges, sizes, light outputs and colour temperatures to suit your individual needs. Switchable and dimmable drivers are available. Dimmable drivers on offer include DALI, 1–10 V, PHASE DIM and PUSH DIM. Create your ideal luminaire from these components.



WE ARE CASAMBI-READY

MGL LED luminaires can also be switched and dimmed with ease using an app and a Casambi module. More information: www.casambi.com



DOWNLIGHTS

Downlights are used in all applications, be they residential, commercial or for presentation purposes. These lights are integrated in the ceiling so the architecture of the room is not affected. The focus is not on the luminaire, but on the light itself. It can be wide-angled for general lighting purposes, targeted or accentuated, making downlights the perfect choice for a large number of applications. The cost-effectiveness, durability and lighting quality of the LED technology are essentials for new builds. LED downlights are also very attractive options for renovating existing installations with conventional light sources.



MDL IP44 26
Mini Downlight



MDL IP65 28
Mini Downlight



DLS 45 30
Mini Downlight



HVD 68 32
Recessed Downlight



MDL 68 34
Recessed Downlight



MDL 68 WARMDIM 38
Recessed Downlight



DL 125 | 150 40
Recessed Downlight



MDS 75 | 100 | 150 | 175 44
Multidirectional Recessed Spotlight



DLR 90 | 125 | 150 | 175 | 200 50
Recessed Downlight



DLR 175 | 200 AL 54
Recessed Downlight



DLR 200 WW 55
Recessed Downlight



DLQ 68 | 150 | 200 56
Recessed Downlight



DLF 210 SQ | RD 60
Recessed Downlight Ultraflat



MINI DOWNLIGHT MDL IP44

This miniaturised downlight provides glare-free light from a 35 mm ceiling opening. The MDL IP44 is the ideal choice for discreet lighting in hotel rooms, hallways, corridors and counters. Thanks to its protection against splashing water (IP44 rating), the MDL IP44 can also be used in bathrooms. Surfaces and colours are rendered naturally with a colour rendition of CRI >90. The light output can be adapted by selecting the right driver to suit the needs of the user.

Light distribution	semi wide beam, 24°
Lighting technology	SMD-LED
Light guidance	optical lens
Colour rendition	CRI >90
Materials	aluminium
Surface	white, aluminium anodized, black
Mounting	recessed mounting

MDL IP44



MDL IP44

Light colour	Housing	Operating current	Power	Luminous flux	Article no.
3000 K	white	350 mA	1 W	70 lm	MGL 1087
		500 mA	2 W	90 lm	
		700 mA	3 W	120 lm	
3000 K	black	350 mA	1 W	70 lm	MGL 1088
		500 mA	2 W	90 lm	
		700 mA	3 W	120 lm	
3000 K	aluminium anodized	350 mA	1 W	70 lm	MGL 1089
		500 mA	2 W	90 lm	
		700 mA	3 W	120 lm	

SPECIFICATION	LIGHT DISTRIBUTION		
	Distance	Light cone	Lx E _m
CRI >90 △ 24° △ IP 44 20 ⊗ Recessed mounting	0.5 m	0.21 m ø	1516 Lx
	1 m	0.41 m ø	343 Lx
	1.5 m	0.62 m ø	150 Lx
	2 m	0.82 m ø	83 Lx
	2.5 m	1.03 m ø	53 Lx
			3000 K 700 mA, 3 W, 120 lm

RECOMMENDED DRIVERS	For further drivers, see driver matrix, page 148	
	Operating current	Article no.
switchable	700 mA	MGL 0063

ACCESSORIES	Design/Length	Article no.
Multi connector triple low voltage IP20	1000 mm	MGL 0014
Multi connector sextuple low voltage IP20	1000 mm	MGL 0015
Extension line low voltage IP20	2000 mm	MGL 0016
Connection & Through-wiring box for drivers, with 3-pole cable		MGL 0208





MINI DOWNLIGHT MDL IP65

This miniaturised downlight fits in standard 35 mm ceiling openings. The MDL IP65 is used for lighting that is protected against splashing water, such as in hotel bathrooms and showers. The stainless steel cover ring is resistant to mechanical stress and easy to clean. The luminous flux can be adapted by selecting the right driver to suit the needs of the user.

Light distribution	semi wide beam, 30°
Lighting technology	SMD-LED
Light guidance	optical lens
Colour rendition	CRI >80
Materials	aluminium, V2A
Surface	stainless steel
Mounting	recessed mounting

MDL IP65



MDL IP65

Light colour	Operating current	Power	Luminous flux	Article no.
2700 K	350 mA	1 W	55 lm	MGL 1068
	500 mA	2 W	90 lm	
	700 mA	3 W	110 lm	
3000 K	350 mA	1 W	60 lm	MGL 1026
	500 mA	2 W	100 lm	
	700 mA	3 W	120 lm	

MDL IP65 SET OF 3

⚡ Including driver switchable

Light colour	Operating current	Power	Luminous flux	Article no.
3000 K	700 mA	3 W	120 lm	MGL 1033

The set includes: 3 x Mini downlight MDL IP 65,
1 x Multi connector triple, 1 x Driver

SPECIFICATION

- CRI >80
- △ 30°
- △ IP 65 | 20
- ⌘ Recessed mounting

LIGHT DISTRIBUTION

Distance	Light cone	Lx E _m
0.5 m	0.28 m ø	766 Lx
1 m	0.55 m ø	193 Lx
1.5 m	0.83 m ø	85 Lx
2 m	1.11 m ø	48 Lx
2.5 m	1.39 m ø	31 Lx
		3000 K 700 mA, 3 W, 120 lm



RECOMMENDED DRIVERS

For further drivers, see driver matrix, page 148



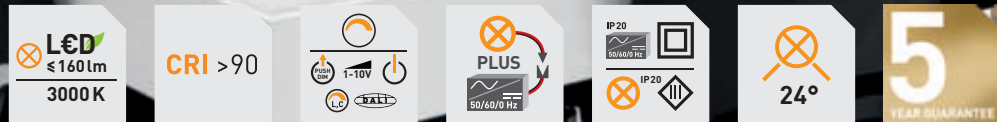
	Operating current	Article no.
⚡ switchable	700 mA	MGL 0063



ACCESSORIES

	Design/Length	Article no.
Multi connector triple low voltage IP20	1000 mm	MGL 0014
Multi connector sextuple low voltage IP20	1000 mm	MGL 0015
Extension line low voltage IP20	2000 mm	MGL 0016
Connection & Through-wiring box for drivers, with 3-pole cable		MGL 0208





MINI DOWNLIGHT DLS 45

The swivel downlight, with a ceiling cut-out of just 45 mm, is optimised for close-up object lighting. Thanks to LED technology even temperature-sensitive materials can be illuminated at close range with practically no heat build-up. Foods, pralines, delicate leather goods and natural materials are showcased in the best light and draw attention without incurring damage. The selection of MGL drivers also allows for the option of dimming.

Light distribution	semi wide beam, 24°
Lighting technology	SMD-LED
Light guidance	optical lens
Colour rendition	CRI >90
Materials	aluminium
Surface	white, aluminium anodized
Mounting	recessed mounting

DLS 45



DLS 45

Light colour	Housing	Operating current	Power	Luminous flux	Article no.
3000 K	white	350 mA	1 W	55 lm	MGL 1149
		500 mA	2 W	110 lm	
		700 mA	3 W	160 lm	
3000 K	aluminium anodized	350 mA	1 W	55 lm	MGL 1150
		500 mA	2 W	110 lm	
		700 mA	3 W	160 lm	

SPECIFICATION	LIGHT DISTRIBUTION		
CRI >90 △ 24° 30° swivable in one axis △ IP20 ⚙ Recessed mounting	Distance	Light cone	Lx E _m
	0.5 m	0.24 m ø	1406 Lx
	1 m	0.49 m ø	334 Lx
	1.5 m	0.73 m ø	148 Lx
	2 m	0.98 m ø	83 Lx
	2.5 m	1.22 m ø	53 Lx
			3000 K 700 mA, 3 W, 160 lm

RECOMMENDED DRIVERS	For further drivers, see driver matrix, page 148	
	Operating current	Article no.
⚡ switchable	700 mA	MGL 0063

ACCESSORIES	Design/Length	Article no.
Multi connector triple low voltage IP20	1000 mm	MGL 0014
Multi connector sextuple low voltage IP20	1000 mm	MGL 0015
Extension line low voltage IP20	2000 mm	MGL 0016
Connection & Through-wiring box for drivers, with 3-pole cable		MGL 0208





HVD 68

The high-voltage downlights are the solution when there is not enough installation space for drivers – be that in the ceiling, shelf or furniture. Directly connected to the 230 V mains supply, the HVD 68 offers an extension of the use of professional LED lighting. This downlight can even be installed in the same surface at outlets on concrete ceilings thanks to the surface-mounted housing, which is available as an accessory.

Light distribution	semi wide beam, 50°
Lighting technology	COB-LED
Light guidance	aluminium reflector
Colour rendition	CRI >90
Materials	aluminium
Surface	white, aluminium anodized, black
Mounting	recessed mounting



HVD 68



HVD 68

Switchable, direct connection 230 V 50 / 60 Hz

Light colour	Housing	Power	Luminous flux	Article no.
3000 K	white	4 W	260 lm	MGL 1140
3000 K	aluminium anodized	4 W	260 lm	MGL 1141
3000 K	black	4 W	260 lm	MGL 1142

SPECIFICATION		LIGHT DISTRIBUTION		
CRI >90		Distance	Light cone	Lx E _m
△ 50°		1 m	0.98 m ø	169 Lx
△ IP44		1.5 m	1.48 m ø	75 Lx
⊗ Recessed mounting		2 m	1.97 m ø	42 Lx
▽ M / M / V		2.5 m	2.46 m ø	27 Lx
		3 m	2.95 m ø	19 Lx
			3000 K	
			4 W, 260 lm	

YouTube Find installation videos on YouTube under the search term 'MGL-LICHT'.

★ ACCESSORIES		
	Design/Length	Article no.
HVD Surface-mounted housing white	Height 45 mm, Ø 78 mm	MGL 0203
HVD Surface-mounted housing aluminium anodized	Height 45 mm, Ø 78 mm	MGL 0204
HVD Surface-mounted housing black	Height 45 mm, Ø 78 mm	MGL 0205



HIGH-QUALITY TECHNOLOGY

- suitable for installation in furniture
- recessed depth only 15 mm
- supply cable 1m with open wire ends



LED
 ≤ 1140 lm
 2700 K
 3000 K

CRI >90

1-10V

PLUS

40°

5
 YEAR GUARANTEE

MDL 68

This extensive product range with swivel recessed and surface-mounted luminaires as well as a pendant luminaire enables a wide range of lighting concepts. All models are based on the same technology and have a similar aesthetic design. Their application areas include residential use, hotels, restaurants and product showcasing. The MDL 68 is suitable for modern new installations as well as for renovation of older lighting systems. The associated MGL driver range offers all options, including switchable and dimmable versions, based on the on-site installation and user requirements.

Light distribution	semi wide beam, 40°
Lighting technology	COB-LED
Light guidance	aluminium reflector
Colour rendition	CRI >90
Materials	aluminium
Surface	white, aluminium anodized, black
Mounting	recessed mounting

MDL 68



Surface-mounted housings white (MGL 0135) and aluminium anodized (MGL 0136)

MDL 68 SIZE 1

Light colour	Housing	Operating current	Power	Luminous flux	Article no.
2700 K	white	350 mA	6 W	570 lm	MGL 1092
3000 K	white	350 mA	6 W	600 lm	MGL 1093
2700 K	aluminium anodized	350 mA	6 W	570 lm	MGL 1094
3000 K	aluminium anodized	350 mA	6 W	600 lm	MGL 1095
2700 K	black	350 mA	6 W	570 lm	MGL 1138
3000 K	black	350 mA	6 W	600 lm	MGL 1139

SPECIFICATION		LIGHT DISTRIBUTION		
CRI >90		Distance	Light cone	Lx E _m
△ 40°		1 m	0.79 m ø	502 Lx
△ IP 20		1.5 m	1.18 m ø	224 Lx
⊗ Recessed mounting		2 m	1.58 m ø	125 Lx
		2.5 m	1.97 m ø	80 Lx
		3 m	2.36 m ø	56 Lx
		3000 K 350 mA, 6 W, 600 lm		

RECOMMENDED DRIVERS <small>For further drivers, see driver matrix, page 148</small>					
	Operating current	Article no.		Operating current	Article no.
⚡ switchable	350 mA	MGL 0033	⚡ dimmable 1 – 10V	350 mA	MGL 0025
	350 mA	MGL 0039		350 mA	MGL 0027
	350 mA	MGL 0041		350 mA	MGL 0046
⚡ switchable DIP-Switch	100 – 340 mA	MGL 0166	⚡ dimmable PHASE DIM	350 mA	MGL 0027
	350 mA	MGL 0023		350 mA	MGL 0107
	350 mA	MGL 0023		350 mA	MGL 0109

★ ACCESSORIES					
	Design/Length	Article no.			
Multi plug connector triple	1000 mm	MGL 0049			
Extension line	2000 mm	MGL 0050			
Surface-mounted housing white	Height 32 mm, Ø 80 mm	MGL 0135			
Surface-mounted housing aluminium anodized	Height 32 mm, Ø 80 mm	MGL 0136			
Spacer (set of 6 pcs) for MDL68		MGL 0192			
Connection & Through-wiring box for drivers, with 3-pole cable		MGL 0208			

MDL 68



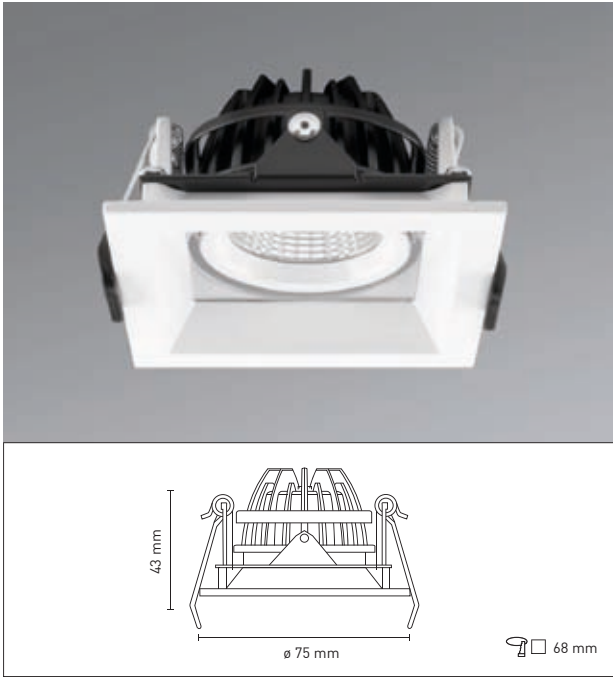
MDL 68 SIZE 2 ROUND

Light colour	Housing	Operating current	Power	Luminous flux	Article no.
2700 K	white	350 mA	6 W	570 lm	MGL 1096
3000 K	white	350 mA	6 W	600 lm	MGL 1097
2700 K	aluminium brushed	350 mA	6 W	570 lm	MGL 1098
3000 K	aluminium brushed	350 mA	6 W	600 lm	MGL 1099

SPECIFICATION	LIGHT DISTRIBUTION
CRI >90	Distance Light cone Lx E_m
△ 40° can be swivelled by up to 30°	1 m 0.79 m ø 502 Lx
△ IP20	1.5 m 1.18 m ø 224 Lx
IP44 (with cover)	2 m 1.58 m ø 125 Lx
⊗ Recessed mounting	2.5 m 1.97 m ø 80 Lx
	3 m 2.36 m ø 56 Lx
	3000 K 350 mA, 6 W, 600 lm

RECOMMENDED DRIVERS			
For further drivers, see driver matrix, page 148			
	Operating current	Article no.	
switchable	350 mA	MGL 0033	dimmmable PUSH DIM
	350 mA	MGL 0039	
	350 mA	MGL 0041	dimmmable PHASE DIM
switchable DIP-Switch	100 – 340 mA	MGL 0166	
dimmmable DALI	350 mA	MGL 0023	
dimmmable 1 – 10 V	350 mA	MGL 0025	

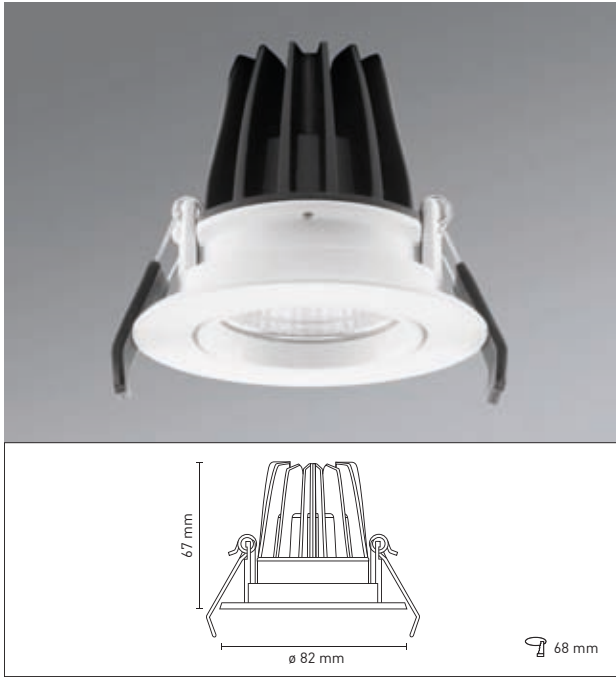
ACCESSORIES		
	Design/Length	Article no.
Multi plug connector triple	1000 mm	MGL 0049
Extension line	2000 mm	MGL 0050
IP44 cover for round design (luminaire remains swivable)	○	MGL 0068
Spacer (set of 6 pcs) for MDL68		MGL 0192
Connection & Through-wiring box for drivers, with 3-pole cable		MGL 0208



MDL 68 SIZE 2 SQUARE

Light colour	Housing	Operating current	Power	Luminous flux	Article no.
2700 K	white	350 mA	6 W	570 lm	MGL 1100
3000 K	white	350 mA	6 W	600 lm	MGL 1101
2700 K	aluminium brushed	350 mA	6 W	570 lm	MGL 1102
3000 K	aluminium brushed	350 mA	6 W	600 lm	MGL 1103

MDL 68



MDL 68 SIZE 3 ROUND

Light colour	Housing	Operating current	Power	Luminous flux	Article no.
3000 K	white	350 mA	13 W	1140 lm	MGL 1104
3000 K	aluminium brushed	350 mA	13 W	1140 lm	MGL 1105

SPECIFICATION	LIGHT DISTRIBUTION
CRI >90	Distance Light cone Lx E_m
△ 50° can be swivelled by up to 10°	1 m 1.14 m ø 772 Lx
△ IP20	1.5 m 1.70 m ø 341 Lx
IP44 (with cover)	2 m 2.27 m ø 190 Lx
⊗ Recessed mounting	2.5 m 2.84 m ø 121 Lx
	3 m 3.41 m ø 84 Lx
	3000 K 350 mA, 13 W, 1140 lm

RECOMMENDED DRIVERS		
For further drivers, see driver matrix, page 148		
	Operating current	Article no.
switchable	350 mA	MGL 0033
	350 mA	MGL 0041
switchable DIP-Switch	100 – 340 mA	MGL 0166
dimmmable DALI	350 mA	MGL 0023
dimmmable 1 – 10 V	350 mA	MGL 0025
dimmmable PUSH DIM	350 mA	MGL 0027
	350 mA	MGL 0046
dimmmable PHASE DIM	350 mA	MGL 0027
	350 mA	MGL 0109

ACCESSORIES		
	Design/Length	Article no.
Multi plug connector triple	1000 mm	MGL 0049
Extension line	2000 mm	MGL 0050
IP44 cover for round design (luminaire no longer swivable)	○	MGL 0007
Connection & Through-wiring box for drivers, with 3-pole cable		MGL 0208

HIGH-QUALITY TECHNOLOGY



- closed optical unit
- prevents ingress of dust



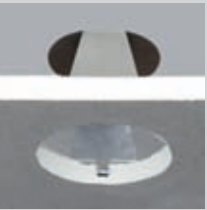
- protective installation thanks to optimised retaining springs
- cover ring hides the edges of the ceiling cut-out



- COB LED technology for excellent lighting quality and efficiency



- heat sink made of powder-coated die-cast aluminium
- passive heat dissipation



- Spacer to protect insulation material; for MDL 68 size 1 / 2 (optional accessory)

ENERGY SAVING POTENTIAL

MDL 68	LOW-VOLTAGE HALOGEN
 Size 1	250 mA 4.7 W 35 W
 Size 2	350 mA 6 W 50 W
 Size 3	350 mA 13 W 75 W

LUMINAIRES WITH AN INCANDESCENT EFFECT



MDL 68 WARM DIM

While it can be said for incandescent lights that ‘dimming makes the light warmer’, this doesn’t ring true for LEDs. High-quality LEDs hold a constant light colour. However, in environments where a home-like atmosphere is desired, such as in restaurants, hotels or care homes, this incandescent effect may be sought-after. MGL offers the solution to this with the MDL 68 WARM DIM. Beyond the usual phase dimming, MGL warmdim can also be professionally controlled with DALI, 1–10 V and PUSH DIM and integrated into the building management system.

Light distribution	semi wide beam, 45°
Lighting technology	SMD-LED
Light guidance	aluminium reflector, satin glass cover
Colour rendition	CRI >90
Materials	aluminium
Surface	white, aluminium brushed
Mounting	recessed mounting

MDL 68 WARM DIM



MDL 68 WARM DIM

Light colour	Housing	Operating current	Power	Luminous flux	Article no.
1800–3000 K	white	350 mA	6 W	370 lm	MGL 1127
1800–3000 K	aluminium brushed	350 mA	6 W	370 lm	MGL 1128

YouTube Find installation videos on YouTube under the search term ‘MGL-LICHT’.

SPECIFICATION	LIGHT DISTRIBUTION		
	Distance	Light cone	Lx E _m
CRI >90 △ 45°, pivots on gimbals by up to 30° △ IP20 IP44 (with accessory) ☞ Recessed mounting	1 m	0.87 m Ø	247 Lx
	1.5 m	1.30 m Ø	110 Lx
	2 m	1.73 m Ø	62 Lx
	2.5 m	2.16 m Ø	39 Lx
	3 m	2.60 m Ø	27 Lx
	3000 K 350 mA, 6 W, 370 lm		

RECOMMENDED DRIVERS <small>For further drivers, see driver matrix, page 148</small>			
	Operating current	Article no.	
☉ dimmable PHASE DIM	350 mA	MGL 0027	☉ dimmable 1–10 V
	350 mA	MGL 0107	
	350 mA	MGL 0109	☉ dimmable PUSH DIM
☉ dimmable DALI	350 mA	MGL 0023	
			350 mA
			350 mA

★ ACCESSORIES		
	Design/Length	Article no.
Multi plug connector triple	1000 mm	MGL 0049
Extension line	2000 mm	MGL 0050
IP44 cover for round design (luminaire remains swivable)	○	MGL 0068
Spacer (set of 6 pcs) for MDL68		MGL 0192
Connection & Through-wiring box for drivers, with 3-pole cable		MGL 0208





LED
≤3110 lm
3000 K
4000 K

CRI >80

1-10V
DALI
PUSH DIM

PLUS
50/60 Hz

IP20
IP44

70°

5
YEAR GUARANTEE

DL 125 | 150

This product range is designed for energy-efficient general lighting even in rooms with high ceilings. The standard 70° flood reflector can be replaced with a 40° reflector without the use of tools. The choice of driver from the MGL range determines the light output and dimming comfort. An ideal addition to the downlight DL 125/150 is the multidirectional recessed spotlights from the MDS range (see page 44 of this catalogue). MGL track spotlights complete the lighting concept for shop windows and showrooms (see page 106 of this catalogue).

Light distribution	medium beam / wide beam, 70° (40° with accessory)
Lighting technology	COB-LED
Light guidance	aluminium reflector
Colour rendition	CRI >80
Materials	aluminium
Surface	white, grey
Mounting	recessed mounting

DL 125 | 150



DL 125

Light colour	Operating current	Power	Luminous flux	Article no.
3000 K	500 mA 700 mA	20 W 27 W	1250 lm 2250 lm	MGL 1040
4000 K	500 mA 700 mA	20 W 27 W	1380 lm 2380 lm	MGL 1041



DL 150

Light colour	Operating current	Power	Luminous flux	Article no.
3000 K	700 mA 900 mA	27 W 36 W	2250 lm 2900 lm	MGL 1085
4000 K	700 mA 900 mA	27 W 36 W	2380 lm 3110 lm	MGL 1086

SPECIFICATION		LIGHT DISTRIBUTION		
CRI >80	UGR <19	Distance	Light cone	Lx E _m
△ 70°	△ IP 44 20	1 m	1.37 m ø	1183 Lx
⊗ Recessed mounting		1.5 m	2.05 m ø	518 Lx
		2 m	2.74 m ø	287 Lx
		2.5 m	3.42 m ø	183 Lx
		3 m	4.11 m ø	127 Lx
		DL 125	4000 K 700 mA, 27 W, 2380 lm	

		Distance	Light cone	Lx E _m
		1 m	1.44 m ø	1187 Lx
		1.5 m	2.16 m ø	514 Lx
		2 m	2.87 m ø	286 Lx
		2.5 m	3.59 m ø	182 Lx
		3 m	4.31 m ø	126 Lx
		DL 150	4000 K 900 mA, 36 W, 3110 lm	

RECOMMENDED DRIVERS		
For further drivers, see driver matrix, page 150		
switchable DIP-Switch	Operating current	Article no.
	100 – 380 mA	MGL 0166
	250 – 700 mA	MGL 0111
dimmmable DALI	700 mA	MGL 0036
dimmmable 1 – 10V	700 mA	MGL 0037
dimmmable PUSH DIM	700 mA	MGL 0037
	700 mA	MGL 0064
dimmmable PHASE DIM	700 mA	MGL 0064

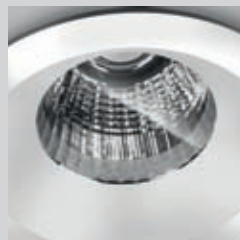
RECOMMENDED DRIVERS		
For further drivers, see driver matrix, page 150		
switchable	Operating current	Article no.
	900 mA	MGL 0098
dimmmable DALI, 1 – 10V, PUSH DIM	900 mA	MGL 0099
	900 mA	MGL 0111

ACCESSORIES		
	Length	Article no.
Exchangeable reflector 40° / UGR <19		MGL 0009
Cover ring grey		MGL 0002
Diffusor		MGL 0043
Extension line with plug connectors	2000 mm	MGL 0050
Connection & Through-wiring box for drivers, with 3-pole cable		MGL 0208

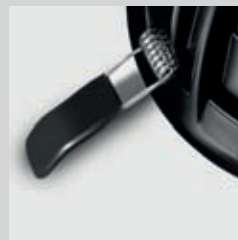
ACCESSORIES		Article no.
Exchangeable reflector 40° / UGR <19		MGL 0001
Cover ring grey		MGL 0003
Diffusor		MGL 0044
Connection & Through-wiring box for drivers, with 3-pole cable		MGL 0208
MGL 0001	MGL 0003	MGL 0044



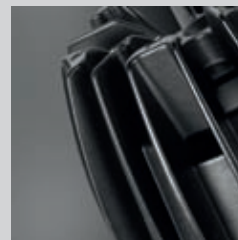
HIGH-QUALITY TECHNOLOGY



- efficient optical system
- optimised for COB LED modules
- very good glare control (UGR <19)
- IP44 protection grade



- easy installation
- retaining springs with rubber guards
- for delicate ceiling panels
- cover ring hides the edges of the ceiling cut-out



- heat sink made of die-cast aluminium
- for passive heat dissipation



- COB LED technology for excellent lighting quality and efficiency

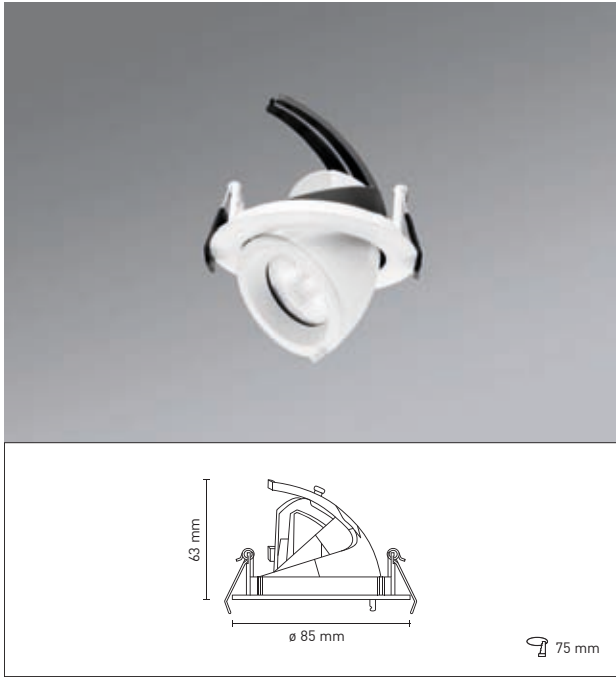


MDS 75 | 100 | 150 | 175

The multidirectional recessed spotlight range can be precisely adjusted, focused using exchangeable reflectors and thus made extremely energy-efficient. The four different sizes differ in terms of their light output. The MGL driver range offers all options, from switchable to dimmable, compatible with existing installations or newly selected building controls. The rigid downlights DL 125/150 are an ideal complement to the MDS product range (see page 40 of this catalogue). MGL track spotlights are great for shop windows or mobile product presentation (see page 105 of this catalogue).

Light distribution	semi wide beam, 40° / 50° (20° with accessory)
Lighting technology	COB-LED
Light guidance	aluminium reflector
Colour rendition	CRI >90
Materials	aluminium
Surface	white, grey
Mounting	recessed tiltable downlight

MDS 75 | 100



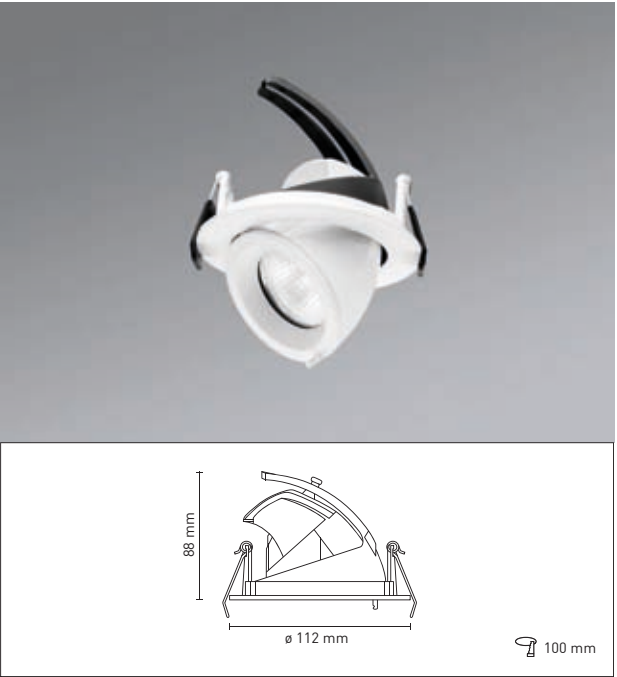
MDS 75

Light colour	Housing	Operating current	Power	Luminous flux	Article no.
3000 K	white	350 mA 500 mA	6 W 9 W	600 lm 710 lm	MGL 1106
2700 K	white	350 mA 500 mA	6 W 9 W	570 lm 680 lm	MGL 1107
3000 K	grey	350 mA 500 mA	6 W 9 W	600 lm 710 lm	MGL 1108
2700 K	grey	350 mA 500 mA	6 W 9 W	570 lm 680 lm	MGL 1109

SPECIFICATION	LIGHT DISTRIBUTION		
	Distance	Light cone	Lx E _m
CRI >90 △ 36° rotatable 355° △ IP 20 ☒ Recessed mounting	1 m	0.59 m ø	842 Lx
	1.5 m	0.89 m ø	370 Lx
	2 m	1.18 m ø	209 Lx
	2.5 m	1.48 m ø	133 Lx
	3 m	1.78 m ø	93 Lx
	MDS 75	3000 K 500 mA, 9 W, 710 lm	

RECOMMENDED DRIVERS		
For further drivers, see driver matrix, page 150		
	Operating current	Article no.
☑ switchable	500 mA	MGL 0040
	500 mA	MGL 0045
☑ switchable DIP-Switch	100 – 380 mA	MGL 0166
☑ dimmable DALI	500 mA	MGL 0024
☑ dimmable 1 – 10 V	500 mA	MGL 0026
☑ dimmable PUSH DIM	500 mA	MGL 0028
☑ dimmable PHASE DIM	500 mA	MGL 0028
	500 mA	MGL 0110

ACCESSORIES		
	Design/Length	Article no.
Multi plug connector triple	1000 mm	MGL 0049
Extension line	2000 mm	MGL 0050
Exchangeable reflector 60°		MGL 0095
Connection & Through-wiring box for drivers, with 3-pole cable		MGL 0208



MDS 100

Light colour	Housing	Operating current	Power	Luminous flux	Article no.
3000 K	white	350 mA	13 W	1140 lm	MGL 1110
4000 K	white	350 mA	13 W	1220 lm	MGL 1111
3000 K	grey	350 mA	13 W	1140 lm	MGL 1112
4000 K	grey	350 mA	13 W	1220 lm	MGL 1113

SPECIFICATION	LIGHT DISTRIBUTION		
	Distance	Light cone	Lx E _m
CRI >90 △ 60° rotatable 355° △ IP 20 ☒ Recessed mounting	1 m	1.14 m ø	811 Lx
	1.5 m	1.70 m ø	358 Lx
	2 m	2.27 m ø	200 Lx
	2.5 m	2.84 m ø	127 Lx
	3 m	3.41 m ø	88 Lx
	MDS 100	4000 K 350 mA, 13 W, 1220 lm	

RECOMMENDED DRIVERS		
For further drivers, see driver matrix, page 150		
	Operating current	Article no.
☑ switchable	350 mA	MGL 0033
	350 mA	MGL 0041
☑ switchable DIP-Switch	100 – 340 mA	MGL 0166
☑ dimmable DALI	350 mA	MGL 0023
☑ dimmable 1 – 10 V	350 mA	MGL 0025
☑ dimmable PUSH DIM	350 mA	MGL 0027
	350 mA	MGL 0046
☑ dimmable PHASE DIM	350 mA	MGL 0027
	350 mA	MGL 0109

ACCESSORIES		
	Design/Length	Article no.
Extension line	2000 mm	MGL 0050
Exchangeable reflector 20°		MGL 0052
Connection & Through-wiring box for drivers, with 3-pole cable		MGL 0208

MDS 150 | 175



MDS 150

Light colour	Housing	Operating current	Power	Luminous flux	Article no.
3000 K	white	700 mA	26 W	2500 lm	MGL 1114
4000 K	white	700 mA	26 W	2670 lm	MGL 1115
3000 K	grey	700 mA	26 W	2500 lm	MGL 1116
4000 K	grey	700 mA	26 W	2670 lm	MGL 1117

MDS 175

Light colour	Housing	Operating current	Power	Luminous flux	Article no.
3000 K	white	1050 mA 1400 mA	38 W 52 W	3490 lm 4660 lm	MGL 1118 MGL 1119
4000 K	white	1050 mA 1400 mA	38 W 52 W	3740 lm 4980 lm	MGL 1119 MGL 1120
3000 K	grey	1050 mA 1400 mA	38 W 52 W	3490 lm 4660 lm	MGL 1120 MGL 1121
4000 K	grey	1050 mA 1400 mA	38 W 52 W	3740 lm 4980 lm	MGL 1121 MGL 1122

SPECIFICATION		LIGHT DISTRIBUTION	
CRI >90		Distance	Light cone
40°		1 m	0.77 m ø
rotatable 355°		1.5 m	1.16 m ø
IP 20		2 m	1.54 m ø
Recessed mounting		2.5 m	1.93 m ø
		3 m	2.32 m ø
		MDS 150	4000 K 700 mA, 26 W, 2670 lm

Distance	Light cone	Lx E _m
1 m	0.79 m ø	4688 Lx
1.5 m	1.18 m ø	2106 Lx
2 m	1.58 m ø	1183 Lx
2.5 m	1.97 m ø	759 Lx
3 m	2.36 m ø	533 Lx
MDS 175	4000 K 1400 mA, 52 W, 4980 lm	

RECOMMENDED DRIVERS		
For further drivers, see driver matrix, page 150		
switchable DIP-Switch	Operating current 250 – 700 mA	Article no. MGL 0111
dimmmable DALI	700 mA	MGL 0036
dimmmable 1 – 10V	700 mA	MGL 0037
dimmmable PUSH DIM	700 mA	MGL 0037
dimmmable PHASE DIM	700 mA	MGL 0064

RECOMMENDED DRIVERS		
For further drivers, see driver matrix, page 150		
switchable DIP-Switch	Operating current 1050 – 1400 mA	Article no. MGL 0156
dimmmable DALI, 1 – 10V, PUSH DIM	900 mA	MGL 0099

ACCESSORIES		
Design/Length	Article no.	
Extension line 2000 mm	MGL 0050	
Exchangeable reflector 20°	MGL 0054	
Connection & Through-wiring box for drivers, with 3-pole cable	MGL 0208	

ACCESSORIES		
Design/Length	Article no.	
Extension line 2000 mm	MGL 0050	
Exchangeable reflector 20°	MGL 0056	
Connection & Through-wiring box for drivers, with 3-pole cable	MGL 0208	

HIGH-QUALITY TECHNOLOGY



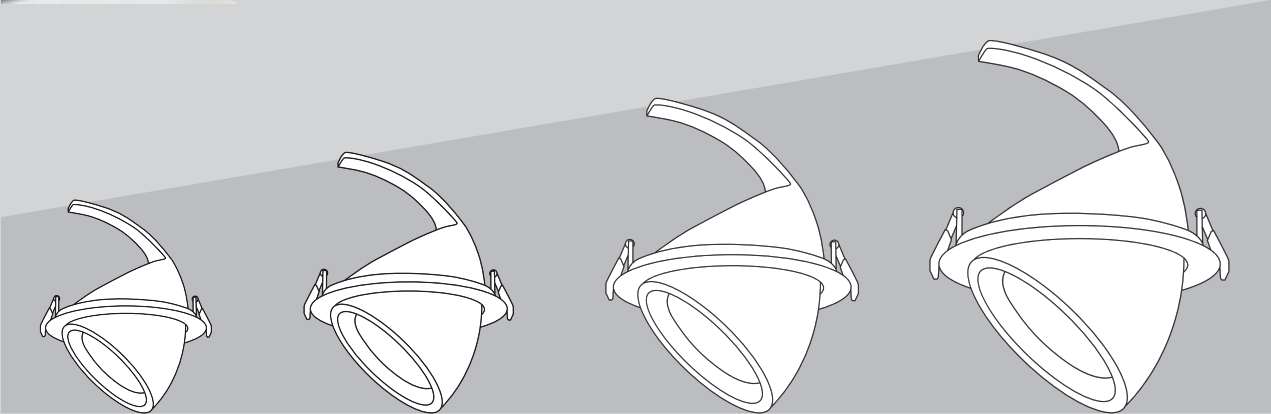
COB LED technology for excellent lighting quality and efficiency



reflectors can be changed without the use of tools



heat sink made of die-cast aluminium
passive heat dissipation



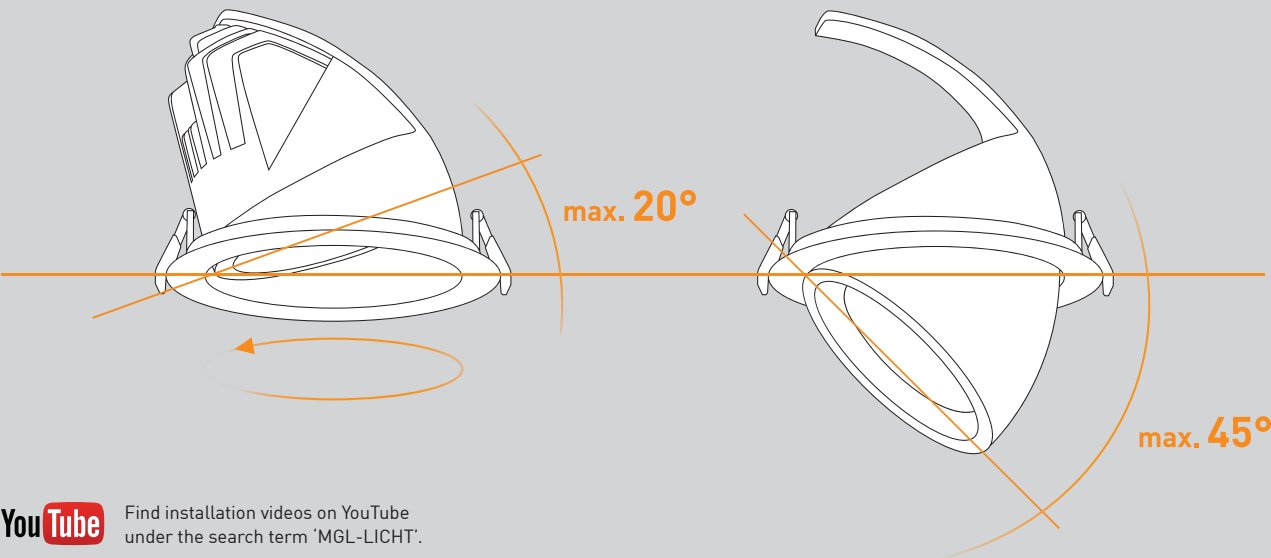
MDS 75
CO Ø 75 mm

MDS 100
CO Ø 100 mm

MDS 150
CO Ø 150 mm

MDS 175
CO Ø 175 mm

SWIVEL RANGE



YouTube Find installation videos on YouTube under the search term 'MGL-LICHT'.



DLR 90 | 125 | 150 | 175 | 200 | AL | WW

The 'R' in 'DLR' stands for 'renovation' – simple and inexpensive renovation. Use the refitter template (see page 49 of this catalogue) to choose the right DLR model in terms of light output and the ceiling cut-out. The choice of driver from the MGL range determines the light output and switching/dimming options. Available as accessories, the reduction rings allow downlights to be replaced in any ceiling cut-out, from 90 to 260 mm. There's no need to call in external contractors like drywallers or painters – the job can be done without costly work stoppages or a dusty work area to clean up. The universal application of this product group has now been extended to include four models that are suitable for computer workstations as well as two wall floodlights.

Light distribution	wide beam, 80°
Lighting technology	SMD-LED
Light guidance	prismatic diffusor
Colour rendition	CRI >80
Materials	steel, PE, PMMA
Surface	white
Mounting	recessed mounting

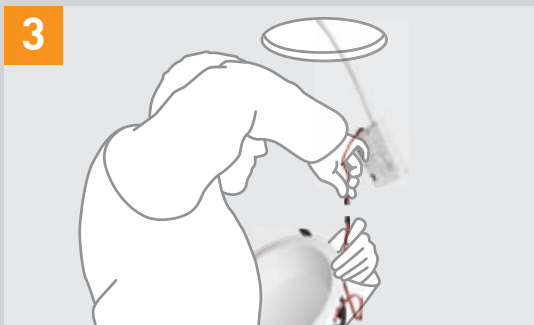
THE DLR REFITTER-PRINCIPLE



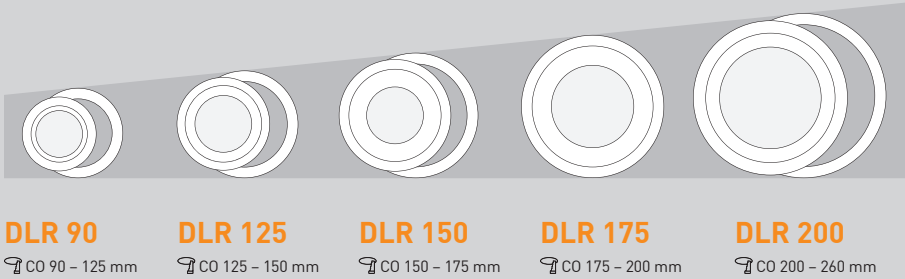
Old and less efficient existing luminaires should be replaced. Determine the ceiling cut-out using the 'refitter' and read off the DLR luminaire type, using the reduction ring if necessary.



Define the following with the user's help:
Light output = 7 W/620 lm to 26 W/2330 lm,
Light colour = warm-white 3000 K, neutral-white 4000 K
Provide evidence of energy saving using the 'Saving potential' table on the back of the 'refitter'.



'Dust-free' installation without interrupting operations, without the need for tools thanks to plug connector. 'Old' and 'new' in a visible comparison. Thanks to DLR, every user is satisfied.



MGL DOWNLIGHT REFITTER

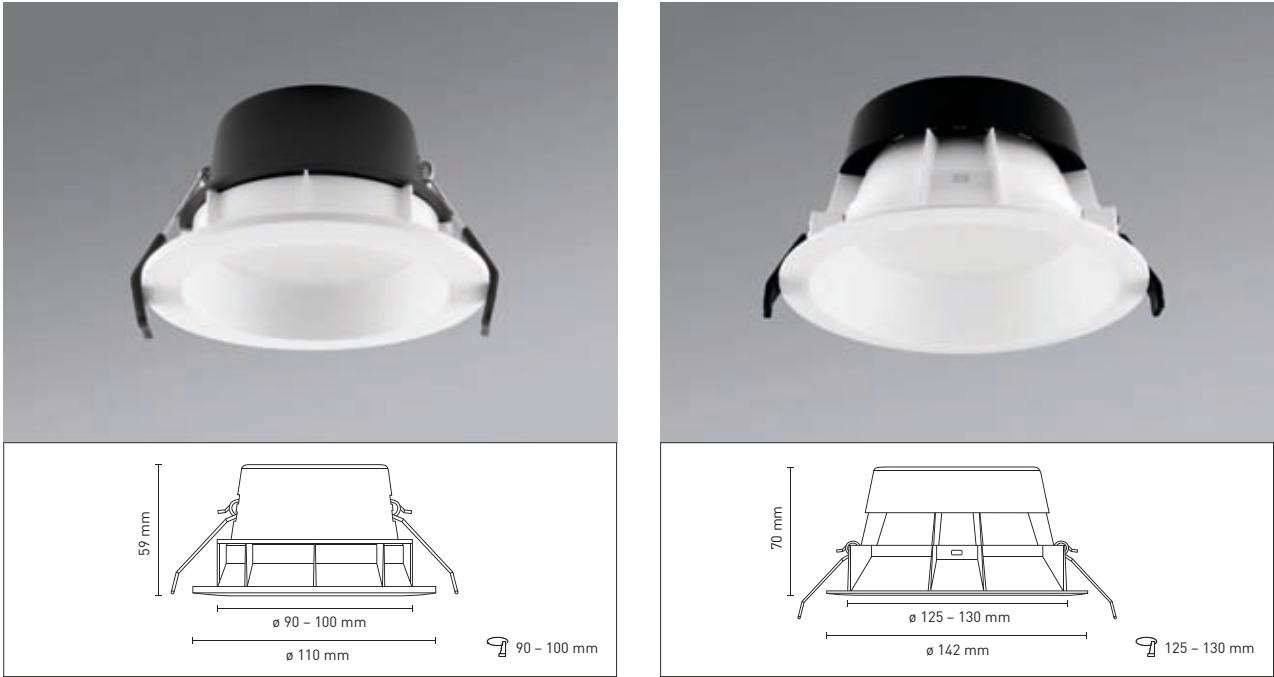
Determine the ceiling cut-out using the 'Refitter' template and read off the corresponding DLR luminaire type. The 'Refitter' can be ordered by sending an e-mail to info@mgl-licht.de.



User knowledge available on PC, tablet and smartphone. Find installation videos on YouTube under the search term 'MGL-LICHT'.



DLR 90 | 125



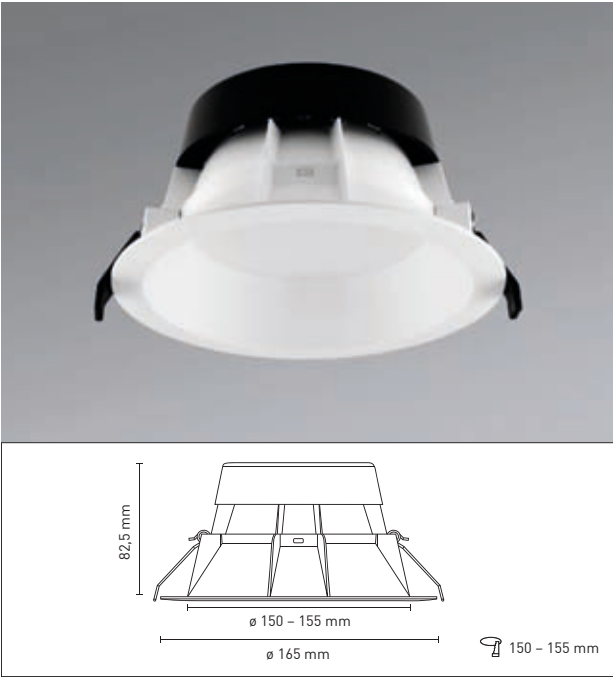
DLR 90

Light colour	Operating current	Power	Luminous flux	Article no.
3000 K	350 mA	7 W	620 lm	MGL 1034
	500 mA	10 W	830 lm	
4000 K	350 mA	7 W	660 lm	MGL 1035
	500 mA	10 W	890 lm	

DLR 125

Light colour	Operating current	Power	Luminous flux	Article no.
3000 K	350 mA	12 W	1050 lm	MGL 1036
	500 mA	17 W	1410 lm	
4000 K	350 mA	12 W	1120 lm	MGL 1037
	500 mA	17 W	1510 lm	

DLR 150



DLR 150

Light colour	Operating current	Power	Luminous flux	Article no.
3000 K	350 mA	12 W	1050 lm	MGL 1038
	500 mA	17 W	1410 lm	
4000 K	350 mA	12 W	1120 lm	MGL 1039
	500 mA	17 W	1510 lm	

SPECIFICATION

CRI >80
80°
IP54 | 20
Recessed mounting

LIGHT DISTRIBUTION

DLR 90
500 mA
10 W
3000 K

DLR 125
500 mA
17 W
4000 K

cd/klm
— C0–C180
— C90–C270

RECOMMENDED DRIVERS For further drivers, see driver matrix, page 152			
	Operating current	Article no.	
switchable	350 mA	MGL 0033	dimmmable 1–10 V
	500 mA	MGL 0045	dimmmable PUSH DIM
switchable DIP-Switch	100 – 380 mA	MGL 0166	dimmmable PHASE DIM
dimmmable DALI	500 mA	MGL 0024	

ACCESSORIES		
	Design/Length	Article no.
Extension line with plug connectors	2000 mm	MGL 0050
DLR 90 reduction ring for ceiling cut-out 100 – 125 mm		MGL 0071
DLR 125 reduction ring for ceiling cut-out 135 – 150 mm		MGL 0072
Connection & Through-wiring box for drivers, with 3-pole cable		MGL 0208

SPECIFICATION

CRI >80
80°
IP54 | 20
Recessed mounting

LIGHT DISTRIBUTION

DLR 150
500 mA
17 W
4000 K

cd/klm
— C0–C180
— C90–C270

RECOMMENDED DRIVERS For further drivers, see driver matrix, page 152			
	Operating current	Article no.	
switchable	350 mA	MGL 0033	dimmmable 1–10 V
	500 mA	MGL 0045	dimmmable PUSH DIM
switchable DIP-Switch	100 – 380 mA	MGL 0166	dimmmable PHASE DIM
dimmmable DALI	500 mA	MGL 0024	

ACCESSORIES		
	Design/Length	Article no.
Extension line with plug connectors	2000 mm	MGL 0050
DLR 150 reduction ring for ceiling cut-out 160 – 175 mm		MGL 0073
Connection & Through-wiring box for drivers, with 3-pole cable		MGL 0208

DLR 175 | 200



DLR 175

Light colour	Operating current	Power	Luminous flux	Article no.
3000 K	350 mA	12 W	1050 lm	MGL 1 027
	500 mA	17 W	1410 lm	
	700 mA	26 W	2160 lm	
4000 K	350 mA	12 W	1120 lm	MGL 1028
	500 mA	17 W	1510 lm	
	700 mA	26 W	2310 lm	

DLR 200

Light colour	Operating current	Power	Luminous flux	Article no.
3000 K	350 mA	12 W	1250 lm	MGL 1029
	500 mA	18 W	1720 lm	
	700 mA	26 W	2180 lm	
4000 K	350 mA	12 W	1340 lm	MGL 1030
	500 mA	18 W	1840 lm	
	700 mA	26 W	2330 lm	

SPECIFICATION

CRI >80

80°

IP 54 | 20

Recessed mounting

LIGHT DISTRIBUTION

DLR 175

500 mA

26 W

4000 K

DLR 200

500 mA

26 W

4000 K

RECOMMENDED DRIVERS			
	Operating current	Article no.	
switchable DIP-Switch	100 – 380 mA	MGL 0 166	dimmmable PUSH DIM
	250 – 700 mA	MGL 0111	700 mA
dimmmable DALI	700 mA	MGL 0036	700 mA
dimmmable 1 – 10 V	700 mA	MGL 0037	700 mA

ACCESSORIES		
	Design/Length	Article no.
Extension line with plug connectors	2000 mm	MGL 0050
DLR 200 reduction ring for ceiling cut-out 220 – 260 mm	○	MGL 0067
Connection & Through-wiring box for drivers, with 3-pole cable		MGL 0208



HIGH-QUALITY TECHNOLOGY



- heat sink made of deep-drawn black powder-coated sheet steel
- safe, gentle operation of the LEDs



- tool-less connection of LED light head to MGL driver via plug connector



- five sizes
- reduction rings optionally available
- suitable for all ceiling cut-outs from 90 – 260 mm

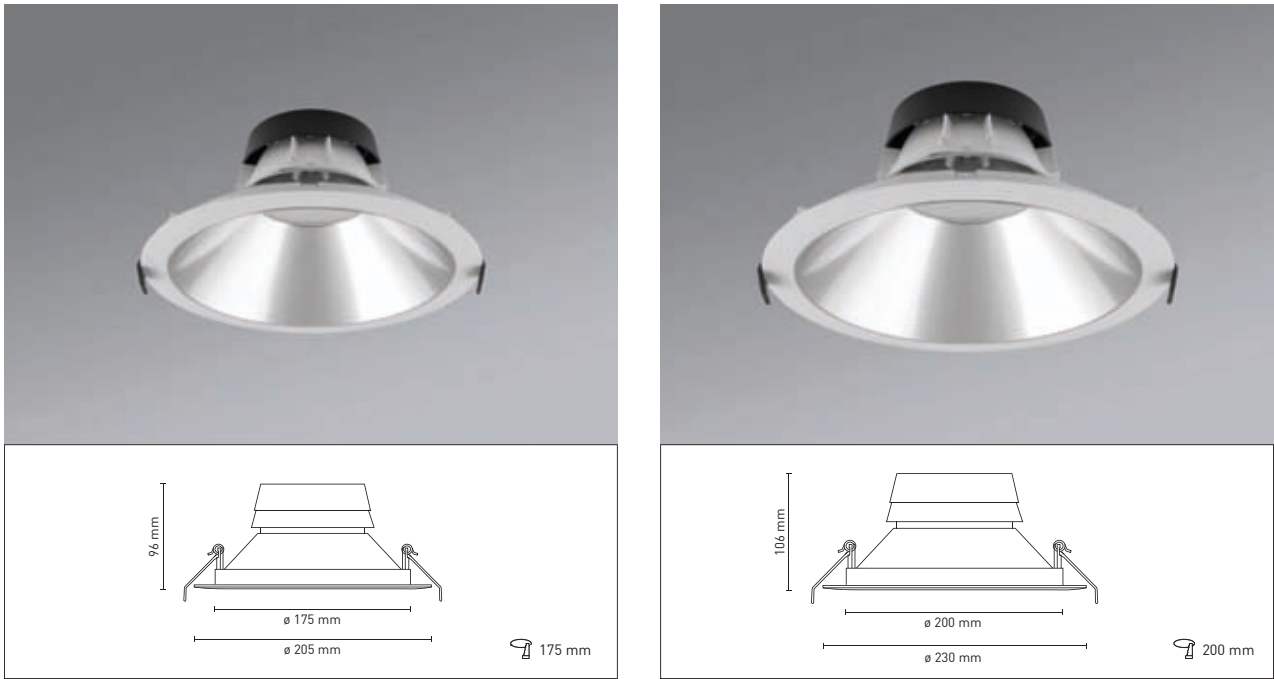


- plastic-covered retaining springs
- protective installation in sensitive ceilings
- for ceiling thicknesses from 3 – 24 mm



Only operation with drivers from the MGL driver matrix is permitted. These are developed and manufactured in Europe and ensure safe operation that is gentle on LEDs in accordance with the MGL five-year guarantee.

DLR 175 | 200 AL



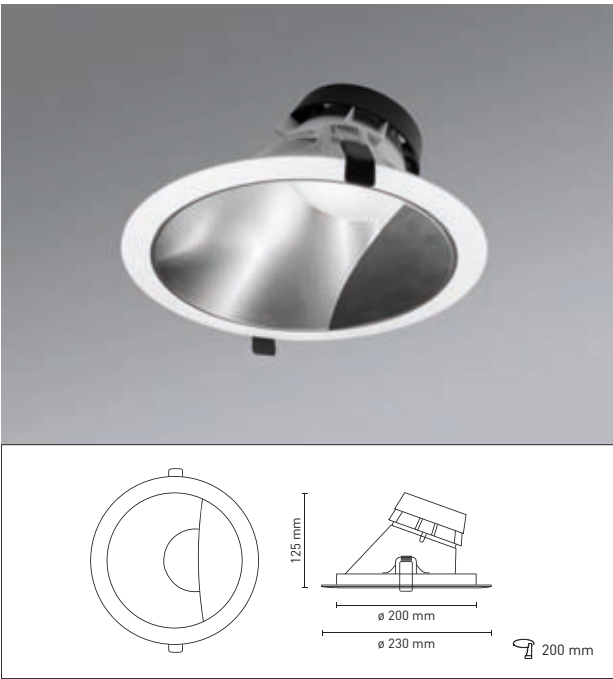
DLR 175 AL

Light colour	Operating current	Power	Luminous flux	Article no.
3000 K	350 mA	14 W	1460 lm	MGL 1143
	500 mA	20 W	1970 lm	
4000 K	350 mA	14 W	1560 lm	MGL 1144
	500 mA	20 W	2100 lm	

DLR 200 AL

Light colour	Operating current	Power	Luminous flux	Article no.
3000 K	350 mA	14 W	1460 lm	MGL 1145
	500 mA	20 W	1970 lm	
4000 K	350 mA	14 W	1560 lm	MGL 1146
	500 mA	20 W	2100 lm	

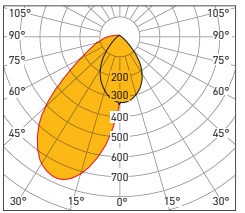
DLR 200 WW



DLR 200 WW

Light colour	Operating current	Power	Luminous flux	Article no.
3000 K	350 mA	14 W	1260 lm	MGL 1147
	500 mA	20 W	1670 lm	
4000 K	350 mA	14 W	1350 lm	MGL 1148
	500 mA	20 W	1790 lm	

SPECIFICATION		LIGHT DISTRIBUTION			
CRI >80 UGR <19 △ 80° △ IP54 20 ⊗ Recessed mounting		Distance	Light cone	Lx E _m	
		1 m	1.52 m ø	660 Lx	
		1.5 m	2.28 m ø	293 Lx	
		2 m	3.04 m ø	165 Lx	
		2.5 m	3.80 m ø	105 Lx	
		3 m	4.55 m ø	74 Lx	
		DLR 175 AL	4000 K	500 mA, 20 W, 2100 lm	
		Distance	Light cone	Lx E _m	
		1 m	1.59 m ø	660 Lx	
		1.5 m	2.39 m ø	295 Lx	
		2 m	3.18 m ø	165 Lx	
		2.5 m	3.98 m ø	105 Lx	
		3 m	4.77 m ø	74 Lx	
		DLR 200 AL	4000 K	500 mA, 20 W, 2100 lm	

SPECIFICATION		LIGHT DISTRIBUTION	
CRI >80 △ Asymmetrical light distribution △ IP54 20 ⊗ Recessed mounting			DLR 200 WW 500 mA 20 W 3000 K cd/klm — C0 - C180 — C90 - C270

RECOMMENDED DRIVERS For further drivers, see driver matrix, page 152			
	Operating current	Article no.	
⚡ switchable	350 mA	MGL 0033	⚡ dimmable 1 – 10V
	500 mA	MGL 0045	⚡ dimmable PUSH DIM
⚡ switchable DIP-Switch	100 – 380 mA	MGL 0166	⚡ dimmable PHASE DIM
⚡ dimmable DALI	500 mA	MGL 0024	

ACCESSORIES		
	Design/Length	Article no.
Synchronisation line for PUSH DIM	500 mm	MGL 0065
Synchronisation line for PUSH DIM	1500 mm	MGL 0134
Synchronisation line for PUSH DIM	4000 mm	MGL 0066
Extension line	2000 mm	MGL 0050
DLR 200 reduction ring for ceiling cut-out 220 – 260 mm	○	MGL 0067
Connection & Through-wiring box for drivers, with 3-pole cable		MGL 0208

RECOMMENDED DRIVERS For further drivers, see driver matrix, page 152			
	Operating current	Article no.	
⚡ switchable	350 mA	MGL 0033	⚡ dimmable 1 – 10V
	500 mA	MGL 0045	⚡ dimmable PUSH DIM
⚡ switchable DIP-Switch	100 – 380 mA	MGL 0166	⚡ dimmable PHASE DIM
⚡ dimmable DALI	500 mA	MGL 0024	

ACCESSORIES		
	Design/Length	Article no.
Synchronisation line for PUSH DIM	500 mm	MGL 0065
Synchronisation line for PUSH DIM	1500 mm	MGL 0134
Synchronisation line for PUSH DIM	4000 mm	MGL 0066
Extension line	2000 mm	MGL 0050
DLR 200 reduction ring for ceiling cut-out 220 – 260 mm	○	MGL 0067
Connection & Through-wiring box for drivers, with 3-pole cable		MGL 0208



DLQ 68 | 150 | 200

In addition to energy efficiency improvements, this product range also makes a formal change to the aesthetic feel of the room. A round downlight with an outdated light source is replaced with a square downlight with LED technology – and it's easily done, without the hassle of having to adapt the round ceiling cut-out. All DLQ downlights are protected against splashing water as standard (IP44 rating). The extensive MGL range of switchable and dimmable drivers is available. The DLQ 68 is the ideal final touch for an overall solution with a uniform design in building projects and for areas where less luminous flux and more compact dimensions are desired.

- Light distribution

Lighting technology

Light guidance

Colour rendition

Materials

Surface

Mounting
- wide beam, 80°

SMD-LED

prismatic diffusor

CRI >80

aluminium

white, black

recessed mounting

DLQ 68



DLQ 68

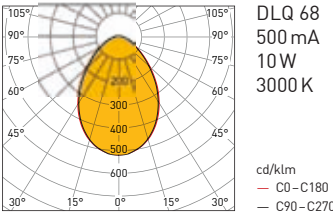
Light colour	Housing	Operating current	Power	Luminous flux	Article no.
3000 K	white	350 mA	7 W	700 lm	MGL 1069
		500 mA	10 W	890 lm	
2700 K	white	350 mA	7 W	650 lm	MGL 1070
		500 mA	10 W	830 lm	
3000 K	black	350 mA	7 W	600 lm	MGL 1071
		500 mA	10 W	770 lm	
2700 K	black	350 mA	7 W	560 lm	MGL 1072
		500 mA	10 W	710 lm	


YouTube Find installation videos on YouTube under the search term 'MGL-LICHT'.

SPECIFICATION

- CRI >80
- 80°
- IP 54 | 20
- Recessed mounting

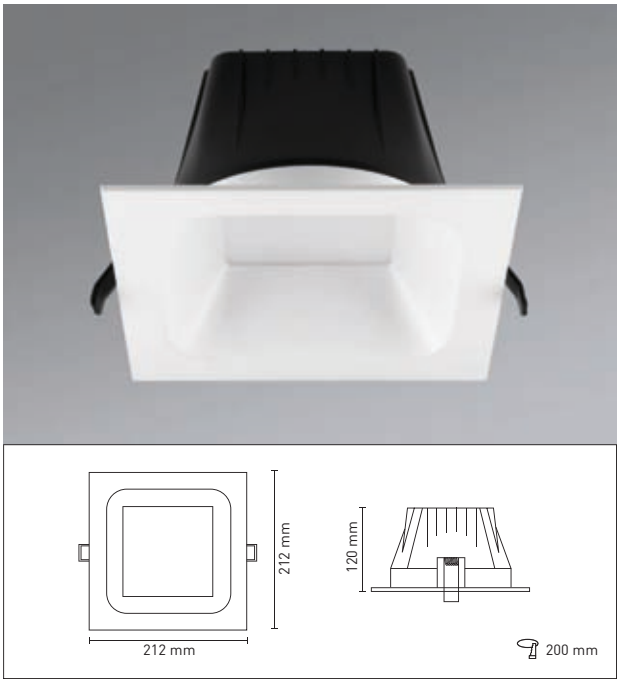
LIGHT DISTRIBUTION



RECOMMENDED DRIVERS <small>For further drivers, see driver matrix, page 154</small>					
	Operating current	Article no.		Operating current	Article no.
switchable	350 mA	MGL 0033	dimmmable 1 – 10V	500 mA	MGL 0026
	500 mA	MGL 0045	dimmmable PUSH DIM	500 mA	MGL 0028
switchable DIP-Switch	100 – 380 mA	MGL 0166	dimmmable PHASE DIM	500 mA	MGL 0028
dimmmable DALI	500 mA	MGL 0024		500 mA	MGL 0110

ACCESSORIES					
	Design/Length	Article no.			
Multi plug connector triple	1000 mm	MGL 0049			
Extension line with plug connectors	2000 mm	MGL 0050	MGL 0049	MGL 0050	MGL 0208
Connection & Through-wiring box for drivers, with 3-pole cable		MGL 0208			

DLQ 150 | 200



DLQ 150

Light colour	Housing	Operating current	Power	Luminous flux	Article no.
3000 K	white	500 mA	20 W	1450 lm	MGL 1073
		700 mA	28 W	1870 lm	
4000 K	white	500 mA	20 W	1550 lm	MGL 1074
		700 mA	28 W	2000 lm	

DLQ 200

Light colour	Housing	Operating current	Power	Luminous flux	Article no.
3000 K	white	500 mA	20 W	1480 lm	MGL 1075
		700 mA	28 W	1950 lm	
4000 K	white	500 mA	20 W	1590 lm	MGL 1076
		700 mA	28 W	2090 lm	

You Tube Find installation videos on YouTube under the search term 'MGL-LICHT'.

SPECIFICATION

CRI >80
80°
IP54 | 20
Recessed mounting

LIGHT DISTRIBUTION

DLQ 150
700 mA
28 W
4000 K

cd/klm
— C0 - C180
— C90 - C270

SPECIFICATION

CRI >80
UGR <19
80°
IP54 | 20
Recessed mounting

LIGHT DISTRIBUTION

DLQ 200
700 mA
28 W
4000 K

cd/klm
— C0 - C180
— C90 - C270

RECOMMENDED DRIVERS <small>For further drivers, see driver matrix, page 154</small>					
	Operating current	Article no.		Operating current	Article no.
switchable DIP-Switch	250 – 700 mA	MGL 0111	dimmmable PUSH DIM	700 mA	MGL 0037
dimmmable DALI	700 mA	MGL 0036		700 mA	MGL 0064
dimmmable 1 – 10 V	700 mA	MGL 0037	dimmmable PHASE DIM	700 mA	MGL 0064

ACCESSORIES		
	Design/Length	Article no.
Extension line with plug connectors	2000 mm	MGL 0050
Connection & Through-wiring box for drivers, with 3-pole cable		MGL 0208



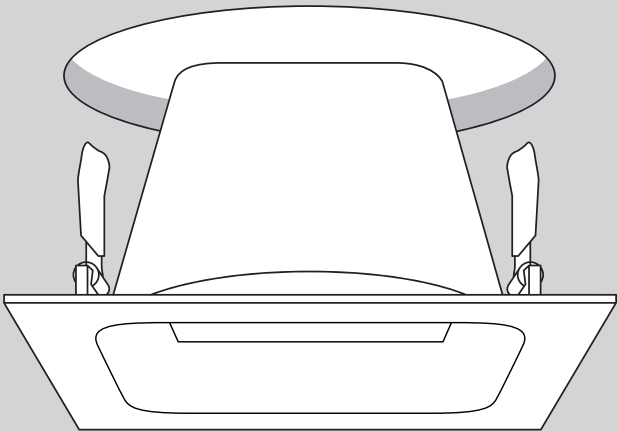
HIGH-QUALITY TECHNOLOGY

A SQUARE PEG CAN FIT INTO A ROUND HOLE

DLQ downlights simplify the installation of square downlights – standard round ceiling cut-outs can hold these downlights.



- heat sink made of die-cast aluminium
- passive heat dissipation



- classic square shape
- covers round ceiling cut-outs



- easy installation with rubber guards
- also appropriate for delicate plasterboard ceiling panels



LED
≤1850lm
3000 K
4000 K

CRI >80

1-10V

PLUS
50/60/0 Hz

IP20

IP44

111°

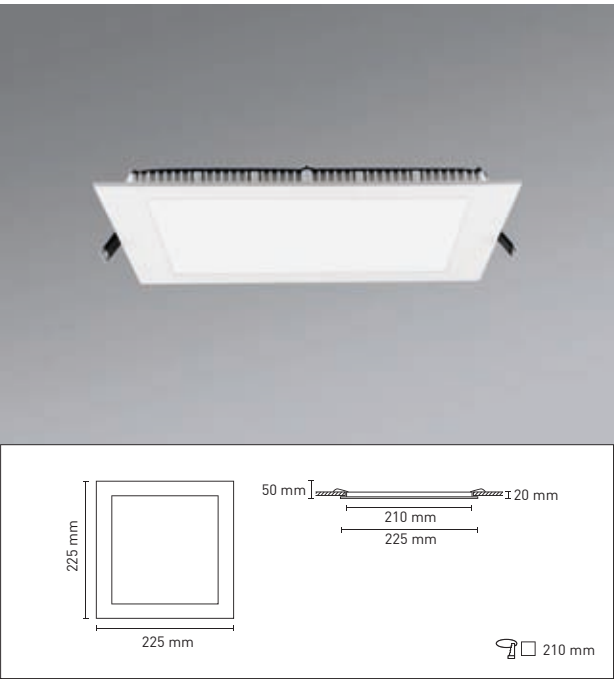
5
YEAR GUARANTEE

DLF 210

The 'F' in 'DLF' stands for 'flat'. How low a suspended ceiling hangs depends on the building equipment installed above it. At just 35 mm tall, the DLF downlights are a great advantage here. With very wide light distribution, they are ideal for hallways and large areas for which there are no special anti-glare (VDU) requirements.

- Light distribution**
- wide beam, 111°
- Lighting technology**
- SMD-LED
- Light guidance**
- pearl diffusor
- Colour rendition**
- CRI >80
- Materials**
- aluminium
- Surface**
- white
- Mounting**
- recessed mounting

DLF 210



DLF 210 ROUND

Light colour	Operating current	Power	Luminous flux	Article no.
3000 K	350 mA	12 W	940 lm	MGL 1058
	500 mA	18 W	1240 lm	
	700 mA	24 W	1770 lm	
4000 K	350 mA	12 W	1010 lm	MGL 1059
	500 mA	18 W	1340 lm	
	700 mA	24 W	1850 lm	

DLF 210 SQUARE

Light colour	Operating current	Power	Luminous flux	Article no.
3000 K	350 mA	12 W	910 lm	MGL 1060
	500 mA	18 W	1220 lm	
	700 mA	24 W	1700 lm	
4000 K	350 mA	12 W	1010 lm	MGL 1061
	500 mA	18 W	1260 lm	
	700 mA	24 W	1770 lm	

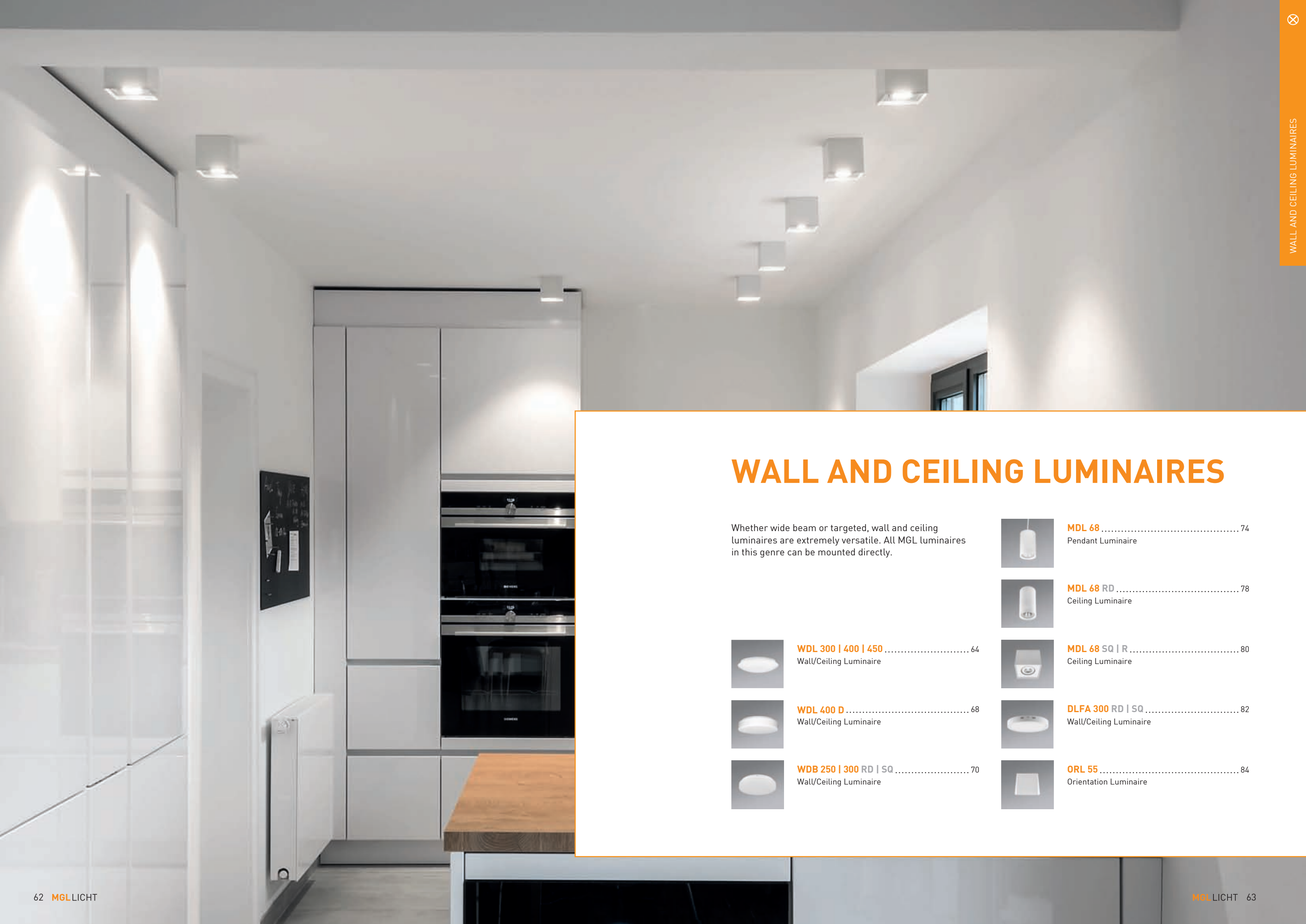
SPECIFICATION
CRI >80
△ 111°
△ IP44 | 20
⊗ Recessed mounting

LIGHT DISTRIBUTION

DLF 210
700 mA
24 W
3000 K
cd/klm
— C0 - C180
— C90 - C270

RECOMMENDED DRIVERS For further drivers, see driver matrix, page 154					
	Operating current	Article no.		Operating current	Article no.
⚡ switchable DIP-Switch	250 – 700 mA	MGL 0111	⚡ dimmable PUSH DIM	700 mA	MGL 0064
⚡ dimmable DALI	700 mA	MGL 0036	⚡ dimmable PHASE DIM	700 mA	MGL 0037
⚡ dimmable 1 – 10V	700 mA	MGL 0037		700 mA	MGL 0064

* ACCESSORIES					
	Design/Length	Article no.			
Decorative attachment RD, ABS, chrome	○	MGL 0100			
Decorative attachment RD, ABS, nickel brushed	○	MGL 0101			
Decorative attachment SQ, ABS, chrome	□	MGL 0102			
Decorative attachment SQ, ABS, nickel brushed	□	MGL 0103			
Extension line	2000 mm	MGL 0050			
Connection & Through-wiring box for drivers, with 3-pole cable		MGL 0208			



WALL AND CEILING LUMINAIRES

Whether wide beam or targeted, wall and ceiling luminaires are extremely versatile. All MGL luminaires in this genre can be mounted directly.



WDL 300 | 400 | 450 64
Wall/Ceiling Luminaire



WDL 400 D 68
Wall/Ceiling Luminaire



WDB 250 | 300 RD | SQ 70
Wall/Ceiling Luminaire



MDL 68 74
Pendant Luminaire



MDL 68 RD 78
Ceiling Luminaire



MDL 68 SQ | R 80
Ceiling Luminaire



DLFA 300 RD | SQ 82
Wall/Ceiling Luminaire



ORL 55 84
Orientation Luminaire



WDL 300 | 400 | 450

The WDL 300, WDL 400 and WDL 450 wall and ceiling luminaires allow for virtually maintenance-free operation thanks to their robust design and IP44 protection grade. The high light output, combined with visual comfort, meets the requirements for lighting in passageways, stairwells and other 'traffic' zones.

Light distribution	diffuse
Lighting technology	SMD-LED
Light guidance	pearl diffuser
Colour rendition	CRI >80
Materials	steel, polycarbonate
Surface	white
Mounting	surface-mounted



WDL 300



WDL 300

Switchable, 230 V

Light colour	Power	Luminous flux	Article no.
3000 K	14 W	1300 lm	MGL 4000
4000 K	14 W	1390 lm	MGL 4001

HIGH-QUALITY TECHNOLOGY



- pearl diffuser surface
- for homogeneous, glare-free light distribution



- sturdy mounting on walls and ceilings using tri-point screws



- even LED distribution over the entire fixture in two levels
- no 'black spot' due to the position of the driver

PROJECT SOLUTION ON DEMAND

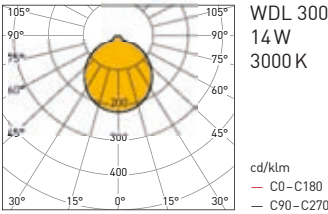
DIP-Switch | 100–380 mA | 5–14 W



SPECIFICATION

- CRI >80
- △ IP 44
- ⊗ Ceiling mounting
- ⊗ Wall mounting

LIGHT DISTRIBUTION



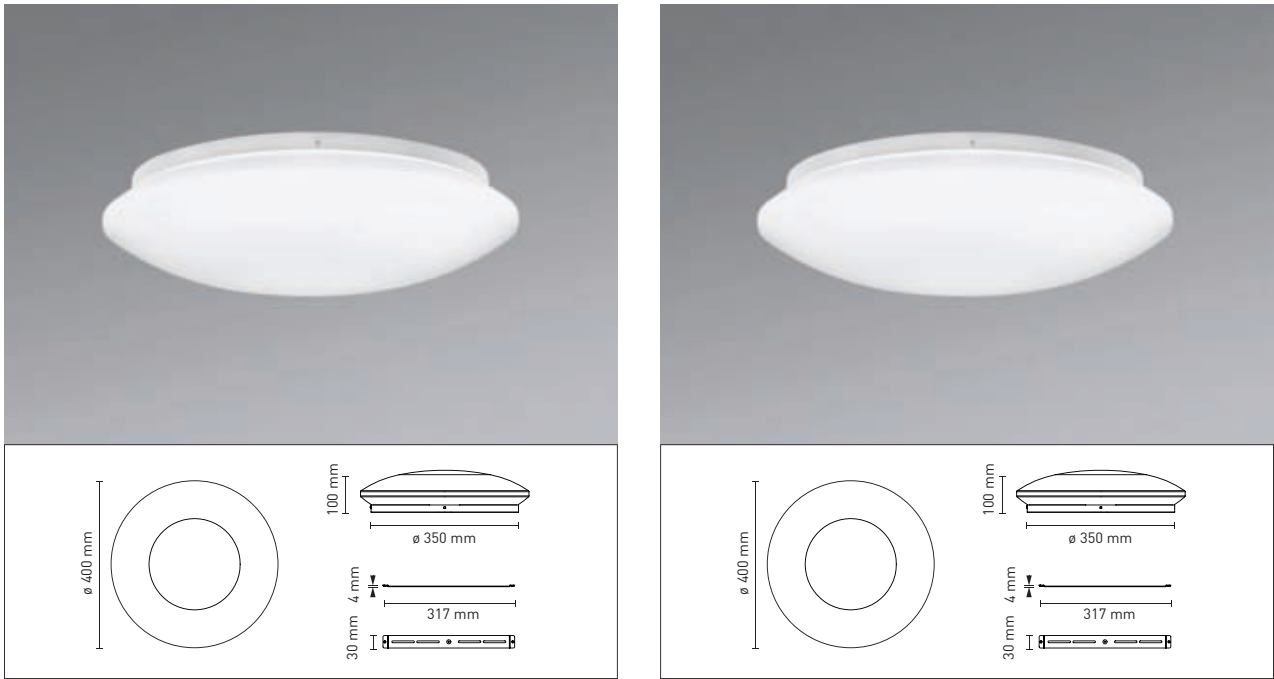
★ ACCESSORIES

	Article no.
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Spare part opal diffuser **MGL 0074**



WDL 400 | 400 HF SENSOR



WDL 400

Switchable, 230 V, adjustable via DIP switches

Light colour	Operating current	Power	Luminous flux	Article no.
3000 K	300 mA	13 W	1250 lm	MGL 4014
	500 mA	20 W	1900 lm	
	700 mA	27 W	2500 lm	
	900 mA	34 W	3150 lm	
4000 K	300 mA	14 W	1330 lm	MGL 4015
	500 mA	20 W	2040 lm	
	700 mA	27 W	2680 lm	
	900 mA	34 W	3375 lm	

WDL 400 HF SENSOR

230 V, HF sensor included

Light colour	Power	Luminous flux	Article no.
3000 K	27 W	2500 lm	MGL 4016
4000 K	27 W	2680 lm	MGL 4017

You Tube Find installation videos on YouTube under the search term 'MGL-LICHT'.

SPECIFICATION

CRI >80

△ IP44 in case of direct mounting
IP40 in combination with mounting bracket

☒ Ceiling mounting
☒ Wall mounting

LIGHT DISTRIBUTION

WDL 400
27 W
3000 K

cd/klm
— C0 - C180
— C90 - C270

HF SENSOR

3 m
max. 5 m
max. 6 m
max. 10 m
min. 1 m

★ ACCESSORIES

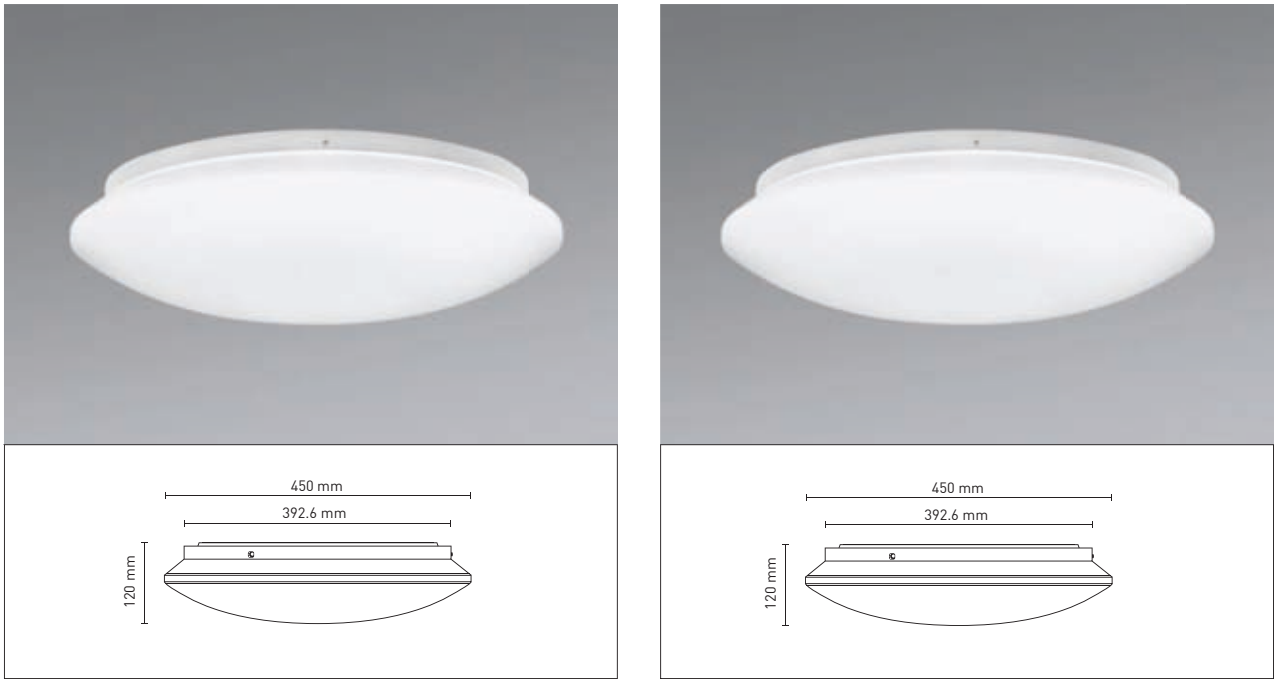
Mounting bracket
The mounting bracket can be used for installations in already existing drilling holes. If the mounting bracket is used, the protection grade is reduced to IP40.

Spare part opal diffuser

Article no.
MGL 0155

MGL 0172

WDL 450



WDL 450

Switchable, 230 V

Light colour	Power	Luminous flux	Article no.
3000 K	41 W	3670 lm	MGL 4002
4000 K	41 W	3990 lm	MGL 4003

WDL 450 DALI

DALI DIM

Light colour	Power	Luminous flux	Article no.
3000 K	41 W	3670 lm	MGL 4004
4000 K	41 W	3990 lm	MGL 4005

SPECIFICATION

CRI >80

△ IP44

☒ Ceiling mounting
☒ Wall mounting

LIGHT DISTRIBUTION

WDL 450
41 W
3000 K

cd/klm
— C0 - C180
— C90 - C270

★ ACCESSORIES

Spare part opal diffuser

Article no.
MGL 0083



WDL 400 D

The 400 Deko wall and ceiling luminaire is an attractive addition to the well-known WDL product group. The cylindrical design of the diffuser can be visually upgraded and the light distribution changed by using metallic rings, which are available as accessories. The WDL 400 D creates a subtle corona of light on the ceiling or wall where it is mounted. The light output can be set by the electrician during installation according to the client's specifications. The version with HF motion detector offers additional comfort and safety.

Light distribution	diffuse
Lighting technology	SMD-LED
Light guidance	pearl diffuser
Colour rendition	CRI >80
Materials	steel, polycarbonate
Surface	white
Mounting	surface-mounted

WDL 400 D



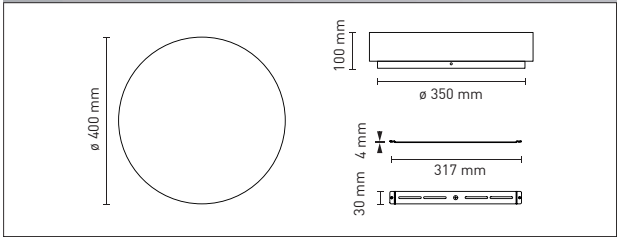
Decorative ring aluminium brushed (MGL 0200)



Decorative ring anthracite (MGL 0201)



Decorative ring white (MGL 0217)



WDL 400 D

Switchable, 230 V 50/60 Hz, adjustable via DIP switches

Light colour	Operating current	Power	Luminous flux	Article no.
3000 K	300 mA	13 W	920 lm	MGL 4018
	500 mA	20 W	1580 lm	
	700 mA	27 W	2100 lm	
4000 K	300 mA	14 W	980 lm	MGL 4019
	500 mA	20 W	1690 lm	
	700 mA	27 W	2250 lm	

WDL 400 D HF SENSOR

230 V, HF sensor included (possible only without decorative ring!)

Light colour	Operating current	Power	Luminous flux	Article no.
3000 K	700 mA	27 W	2100 lm	MGL 4020
4000 K	700 mA	27 W	2250 lm	MGL 4021

YouTube Find installation videos on YouTube under the search term 'MGL-LICHT'.

SPECIFICATION CRI >80 △ IP44 in case of direct mounting IP40 in combination with mounting bracket ☒ Ceiling mounting ☒ Wall mounting	LIGHT DISTRIBUTION WDL 400 D 27 W 3000 K cd/klm — C0-C180 — C90-C270	HF SENSOR
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★ ACCESSORIES	Article no.
Decorative ring WDL 400 D aluminium brushed	MGL 0200
Decorative ring WDL 400 D metal anthracite	MGL 0201
Decorative ring WDL 400 D metal white	MGL 0217
Spare part opal diffuser WDL 400 D, cylindric	MGL 0197
Mounting bracket	MGL 0155





WDB 250 | 300 RD | SQ

This basic wall luminaire can be ideal for many applications. The customer can select the geometry, size and light output. However, the main appeal of this product is the ability to switch the colour temperature – regardless of the chosen model. ‘Warm-white’ can be used for home environments, ‘neutral white’ for work environments or ‘daylight white’ for a ‘cooler’ ambiance; the user makes the choice, and the electrician sets the light colour during installation. This ensures that no-one unauthorised plays around with the colour temperature. Most walls and ceilings are white, so the flat WDB visually blends in with its surroundings with ease – whether it is switched on or off. For applications in public areas, the WDB is very robust, as evidenced by its certified IK10 impact resistance.

Light distribution	diffuse
Lighting technology	SMD-LED
Light guidance	pearl diffusor
Colour rendition	CRI >80
Materials	plastic / polycarbonate
Surface	white
Mounting	surface-mounted

WDB 250 RD | SQ



WDB 250 ROUND

Switchable, 230 V 50/60 Hz
Colour temperature can be preset via integrated switch

Light colour	Power	Luminous flux	Article no.
3000 K	8 W	800 lm	MGL 4022
4000 K	8 W	830 lm	
5700 K	8 W	840 lm	
3000 K	12 W	1090 lm	MGL 4024
4000 K	12 W	1110 lm	
5700 K	12 W	1140 lm	

WDB 250 SQUARE

Switchable, 230 V 50/60 Hz
Colour temperature can be preset via integrated switch

Light colour	Power	Luminous flux	Article no.
3000 K	8 W	830 lm	MGL 4023
4000 K	8 W	850 lm	
5700 K	8 W	880 lm	
3000 K	12 W	1180 lm	MGL 4025
4000 K	12 W	1220 lm	
5700 K	12 W	1240 lm	

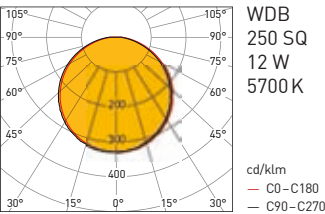
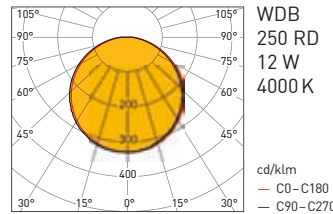
PROJECT SOLUTIONS ON DEMAND
HF sensor | specific diffusor masks

PROJECT SOLUTIONS ON DEMAND
HF sensor | specific diffusor masks

SPECIFICATION

- CRI >80
- IP 54
- IK 10
- Ceiling mounting
- Wall mounting

LIGHT DISTRIBUTION

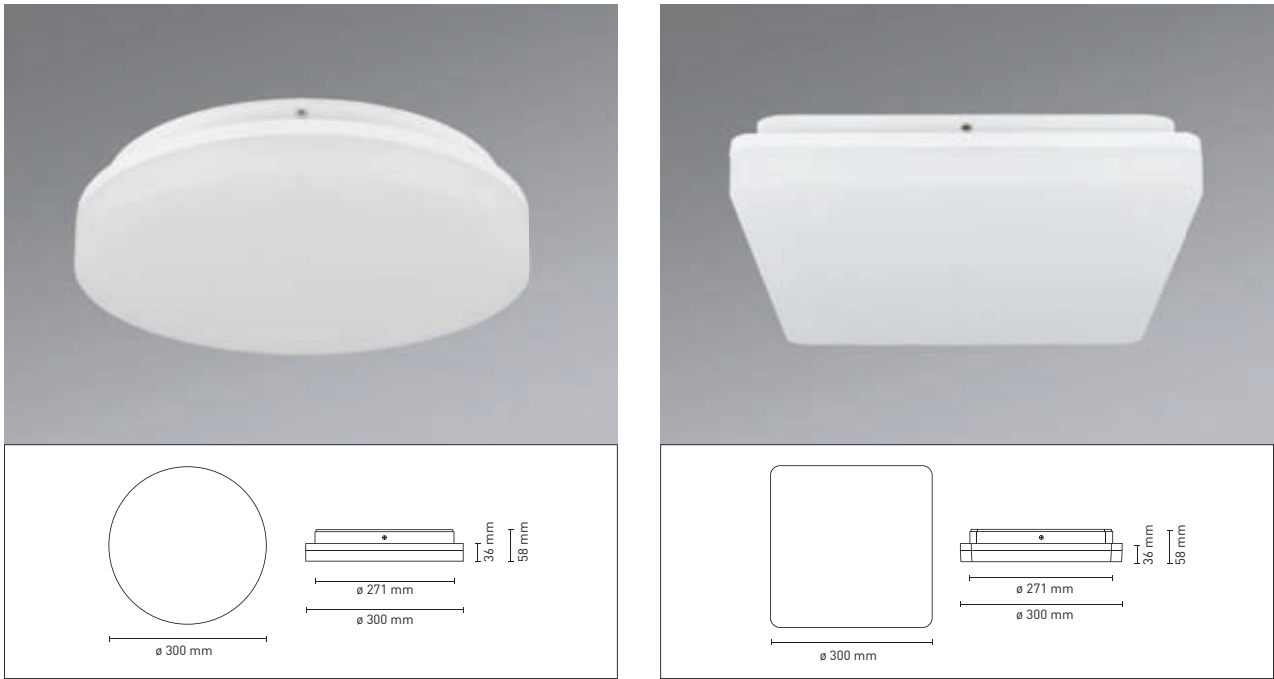


HIGH-QUALITY TECHNOLOGY

Your choice: cool-white, neutral white or warm-white – can be set during installation (3.000 K, 4.000 K, 5.700 K).

YouTube Find installation videos on YouTube under the search term ‘MGL-LICHT’.

WDB 300 RD | SQ



WDB 300 ROUND

Switchable, 230V 50/60 Hz
Colour temperature can be preset via integrated switch

Light colour	Power	Luminous flux	Article no.
3000 K	25 W	2230 lm	MGL4 026
4000 K	25 W	2260 lm	
5700 K	25 W	2380 lm	

PROJECT SOLUTIONS ON DEMAND
HF sensor | specific diffusor masks

WDB 300 SQUARE

Switchable, 230V 50/60 Hz
Colour temperature can be preset via integrated switch

Light colour	Power	Luminous flux	Article no.
3000 K	25 W	2390 lm	MGL 4027
4000 K	25 W	2510 lm	
5700 K	25 W	2550 lm	

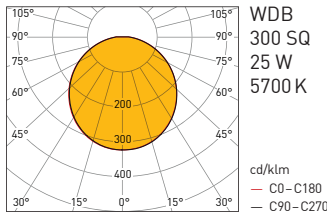
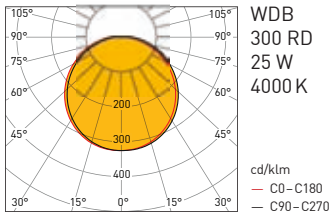
PROJECT SOLUTIONS ON DEMAND
HF sensor | specific diffusor masks

YouTube Find installation videos on YouTube under the search term 'MGL-LICHT'.

SPECIFICATION

- CRI >80
- IP54
- IK10
- Ceiling mounting
- Wall mounting

LIGHT DISTRIBUTION



APPLICATION AREAS



WW
3000 K



3000 Kelvin | warm-white
for comfort

NW
4000 K



4000 Kelvin | neutral white
for freshness and concentration

CW
5700 K



5700 Kelvin | daylight white
for functionality and hygiene



MDL 68 PENDANT LUMINAIRE

Sometimes the ceiling is too high to throw concentrated light onto a bar, counter or table. Where accentuation or comfort is desired, pendant luminaires with a defined beam are the right choice. The MDL 68 pendant luminaire can be used alone or in groups – it’s always a good option as an addition to a lighting concept with MDL 68 recessed and surface-mounted luminaires. The decorative accent ring, which is available as an accessory, showcases the slim-lined elegance of the cylinder and makes the pendant luminaire a real eye-catcher. The luminaire can be switched or dimmed depending on which driver is used. Thanks to LED technology, there’s no risk of heat emitting from the light – good for everything within range of the glow.

- Light distribution

Lighting technology

Light guidance

Colour rendition

Materials

Surface

Mounting
- semi wide beam, 55°

COB-LED

aluminium reflector

CRI >90

aluminium

white

surface-mounted, pendant mounting

LED
≤ 770 lm
3000 K

CRI >90

PLUS
50/60 Hz

IP20

55°

5
YEAR GUARANTEE

MDL 68 PENDANT LUMINAIRE



MDL 68 PENDANT LUMINAIRE

Please select driver separately

Light colour	Housing	Operating current	Power	Luminous flux	Article no.
3000 K	white	250 mA	4 W	430 lm	MGL 1125
		350 mA	6 W	580 lm	
		500 mA	9 W	770 lm	

Pendant length 2000 mm, can be cut on site

SPECIFICATION		LIGHT DISTRIBUTION		
CRI >90		Distance	Light cone	Lx E _m
△ 55°		0.5 m	1.11 m ø	425 Lx
△ IP20		1 m	1.66 m ø	253 Lx
☒ Ceiling mounting		1.5 m	2.22 m ø	136 Lx
		2 m	2.77 m ø	85 Lx
		2.5 m	3.33 m ø	57 Lx
		3000 K 500 mA, 9 W, 770 lm		

DRIVERS For installation in the luminaire housing. Only the following drivers are allowed:					
		Operating current	Article no.	Operating current	Article no.
switchable		250 mA	MGL 0152	dimmable PHASE DIM	MGL 0177
		350 mA	MGL 0039		MGL 0178

★ ACCESSORIES		Article no.
Decorative accent ring MDL 68 pendant luminaire / surface mounted round		MGL 0194
		 MGL 0194

HIGH-QUALITY TECHNOLOGY



Dimmable driver, mounted on gear tray



Switchable driver, mounted on gear tray



Ceiling rose, with 3-pole terminal block



Strain relief for transparent pendant cable, which can be shortened on site



Closed optical unit with LED and reflector; prevents dust from getting inside



Satin-finish decorative accent ring, available as an optional accessory

PENDANT LUMINAIRE, WITH CLOSED OPTICAL UNIT AS STANDARD



PENDANT LUMINAIRE WITH MOUNTED DECORATIVE ACCENT RING, FOR AMBIENT LIGHTING WITH A FEEL-GOOD FACTOR



INSTALLATION



- 1

 - Remove the front ring
 - Unscrew and withdraw the gear tray



- 2

 - Prepare for driver installation



- 3

 - Install and connect the driver
 - Ensure strain relief



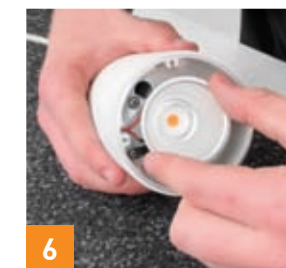
- 4

 - Secure the pendant cable



- 5

 - Complete the luminaire assembly



- 6

 - Insert the reflector
 - Close the front ring or decorative accent ring

YouTube

Find installation videos on YouTube under the search term 'MGL-LICHT'.



LED
≤1060lm
3000K

CRI >90

50/60Hz

50/60Hz

36°

5
YEAR GUARANTEE

MDL 68 SURFACE-MOUNTED

The surface-mounted luminaires of the MDL 68 series are the next logical addition to the product range (see page 34 of this catalogue) with square, rectangular or cylindrical bodies. They allow for a lighting concept to be implemented consistently across a project, even where recessed installation is not possible. The MGL driver range offers options even for surface-mounted luminaires, including switchable and dimmable versions, based on the on-site installation and user requirements.

- Light distribution**
- semi wide beam, 36°
- Lighting technology**
- COB-LED
- Light guidance**
- aluminium reflector
- Colour rendition**
- CRI >90
- Materials**
- aluminium
- Surface**
- white, black
- Mounting**
- surface-mounted

MDL 68 SURFACE-MOUNTED



MDL 68 SURFACE-MOUNTED ROUND

Please select driver separately

Light colour	Housing	Operating current	Power	Luminous flux	Article no.
3000 K	white	250 mA	4 W	420 lm	MGL 1126
		350 mA	6 W	590 lm	
		500 mA	9 W	760 lm	

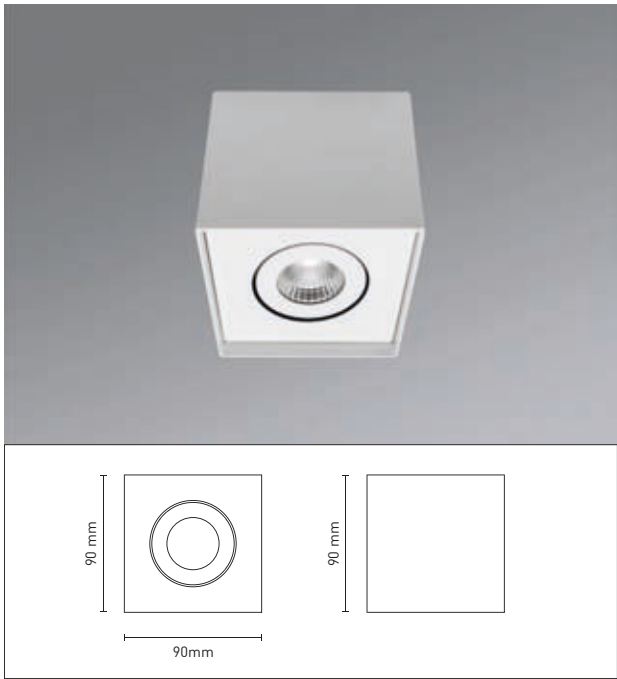
YouTube Find installation videos on YouTube under the search term 'MGL-LICHT'.

SPECIFICATION	LIGHT DISTRIBUTION		
CRI >90	Distance	Light cone	Lx E _m
△ 36°	1 m	0.64 m ø	1092 Lx
△ IP44	1.5 m	0.96 m ø	681 Lx
☒ Ceiling mounting	2 m	1.28 m ø	355 Lx
	2.5 m	1.60 m ø	216 Lx
	3 m	1.91 m ø	146 Lx
	3000 K 500 mA, 9 W, 760 lm		

DRIVERS For installation in the luminaire housing. Only the following drivers are allowed:				
	Operating current	Article no.	Operating current	Article no.
🔌 switchable	250 mA 350 mA	MGL 0152 MGL 0039	☑ dimmable PHASE DIM	350 mA 500 mA MGL 0177 MGL 0178

★ ACCESSORIES	Article no.	
Decorative accent ring MDL 68 pendant luminaire / surface mounted round	MGL 0194	 MGL 0194

MDL 68 SURFACE-MOUNTED



MDL 68 SQUARE

Please select driver separately

Light colour	Housing	Operating current	Power	Luminous flux	Article no.
3000 K	white	350 mA	6 W	530 lm	MGL 1130
3000 K	black	350 mA	6 W	530 lm	MGL 1131

YouTube Find installation videos on YouTube under the search term 'MGL-LICHT'.

SPECIFICATION

CRI >90

△ 36°, swivable:

30° X-axis

15° Y-axis

△ IP20

⊗ Ceiling mounting

LIGHT DISTRIBUTION

Distance	Light cone	Lx E _m
1 m	0.57 m ø	654 Lx
1.5 m	0.85 m ø	460 Lx
2 m	1.13 m ø	230 Lx
2.5 m	1.41 m ø	137 Lx
3 m	1.70 m ø	90 Lx

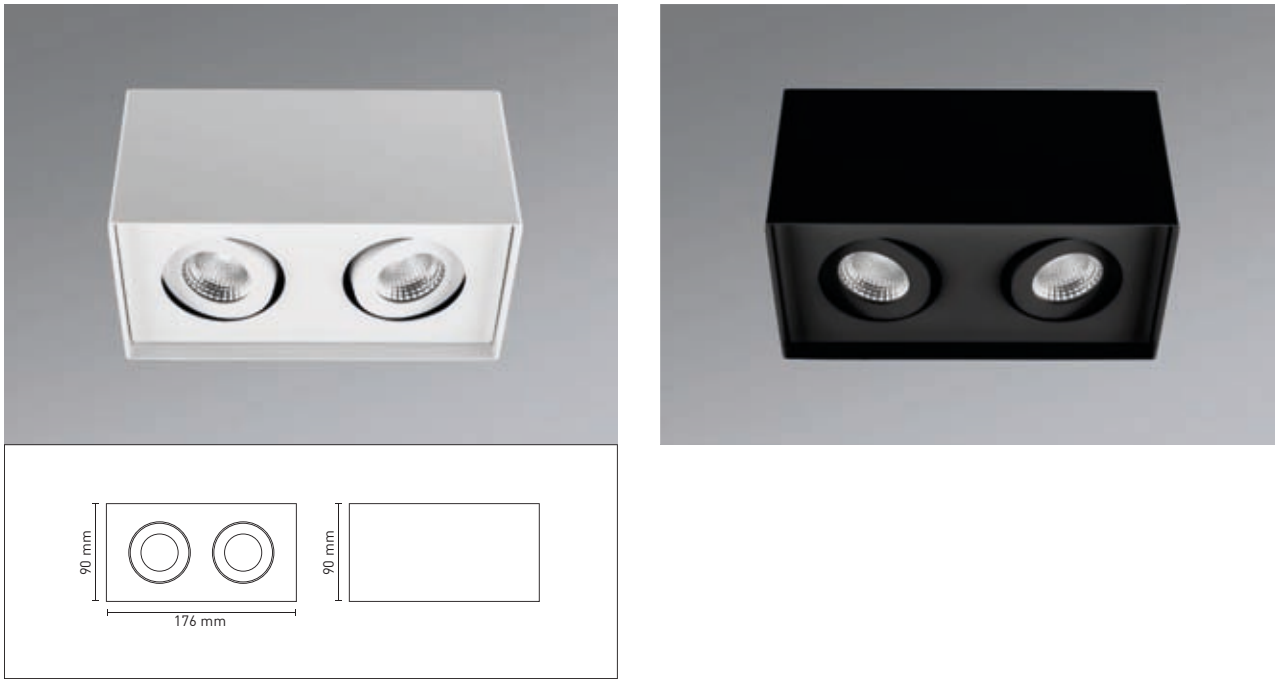
MDL 68Q

3000K

350 mA, 6 W, 530 lm

DRIVERS For installation in the luminaire housing. Only the following drivers are allowed:			
	Operating current	Article no.	
ⓘ switchable	250 mA	MGL 0152	ⓘ dimmable PHASE DIM
	350 mA	MGL 0039	350 mA MGL 0177

MDL 68 SURFACE-MOUNTED



MDL 68 RECTANGULAR

Please select driver separately

Light colour	Housing	Operating current	Power	Luminous flux	Article no.
3000 K	white	350 mA	2 x 6 W	1060 lm	MGL 1134
3000 K	black	350 mA	2 x 6 W	1060 lm	MGL 1135

YouTube Find installation videos on YouTube under the search term 'MGL-LICHT'.

SPECIFICATION		LIGHT DISTRIBUTION		
CRI >90				
△	36°, swivable:			
	30° X-axis			
	15° Y-axis			
△	IP20			
⊗	Ceiling mounting			
		<i>Distance</i>	<i>Light cone</i>	<i>Lx E_m</i>
		1 m	0.57 m ø	654 Lx
		1.5 m	0.85 m ø	460 Lx
		2 m	1.13 m ø	230 Lx
		2.5 m	1.41 m ø	137 Lx
		3 m	1.70 m ø	90 Lx
		MDL 68R	3000 K	
			350 mA, 6 W, 530 lm	

DRIVERS For installation in the luminaire housing. Only the following drivers are allowed:			
	Operating current	Article no.	
ⓘ switchable	350 mA	MGL 0033	ⓘ dimmable 1 – 10 V
ⓘ switchable DIP-Switch	100 – 340 mA	MGL 0166	350 mA MGL 0025
ⓘ dimmable DALI	350 mA	MGL 0023	ⓘ dimmable PHASE DIM
			350 mA MGL 0109



LED
≤ 2130 lm
3000 K
4000 K

CRI >80

1-10V
DALI

50/60/0 Hz

111°

5
YEAR GUARANTEE

DLFA 300

The 'F' in 'DLFA' stands for 'flat' and the 'A' stands for 'attached' or surface-mounted installation. For rooms that do not allow for recessed installation, ceilings that are very low, or for formal reasons, the DLFA with an installation height of just 40 mm and available in either a round or square shape represents a real alternative to chunky surface-mounted luminaires. With very wide light distribution, they are ideal for hallways and rooms for which there are no special anti-glare (VDU) requirements. The choice of driver from the MGL range determines the luminous flux and switching/dimming options provided by the luminaire. The driver is integrated in the luminaire housing on site.

Light distribution	wide beam, 111°
Lighting technology	SMD-LED
Light guidance	pearl diffusor
Colour rendition	CRI >80
Materials	aluminium
Surface	white
Mounting	surface-mounted

DLFA 300



DLFA 300 ROUND

Light colour	Operating current	Power	Luminous flux	Article no.
3000 K	350 mA	12 W	1070 lm	MGL 1081
	500 mA	18 W	1460 lm	
	700 mA	24 W	2020 lm	
4000 K	350 mA	12 W	1130 lm	MGL 1082
	500 mA	18 W	1540 lm	
	700 mA	24 W	2130 lm	



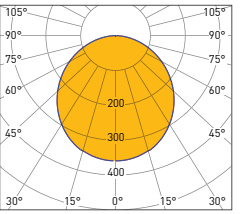
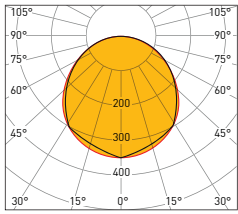
DLFA 300 SQUARE

Light colour	Operating current	Power	Luminous flux	Article no.
3000 K	350 mA	12 W	1030 lm	MGL 1083
	500 mA	18 W	1460 lm	
	700 mA	24 W	1970 lm	
4000 K	350 mA	12 W	1090 lm	MGL 1084
	500 mA	18 W	1530 lm	
	700 mA	24 W	2020 lm	

SPECIFICATION

- CRI >80
- △ 111°
- △ IP20
- ☒ Surface-mounted luminaire

LIGHT DISTRIBUTION



RECOMMENDED DRIVERS

For installation in the luminaire housing. Only the following drivers are allowed:

	Operating current	Article no.		Operating current	Article no.
🔌 switchable DIP-Switch	250 – 700 mA	MGL 0131	🔌 dimmable 1 – 10 V	700 mA	MGL 0037
🔌 dimmable DALI	700 mA	MGL 0036	🔌 dimmable PHASE DIM	500 mA	MGL 0110

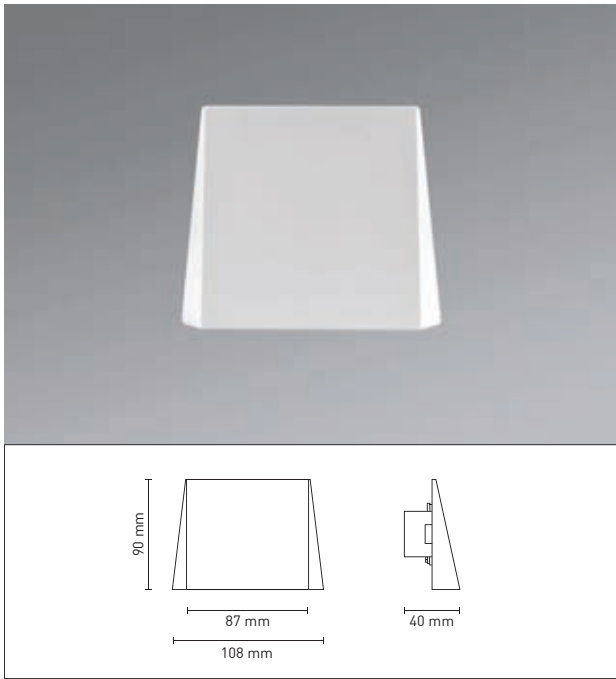


ORL 55

This LED orientation luminaire is designed to be installed in standard recessed and cavity wall boxes, making the ORL 55 an option for new builds and renovation projects without any special accessories needed. In private homes and nursing facilities, this luminaire keeps residents safe, and in hotels and event venues, guests can use it to help get their bearings. With just two watts of power consumption, the ORL 55 is very energy-efficient even in continuous operation. In addition to being mounted low on the wall to make steps safe, the ORL 55 can also be used near the ceiling as an uplight for orientation. The powder-coated die-cast aluminium luminaire cover is robust and durable, even and especially in the direct step area. The 230 V version with integrated driver is switchable, and the 24 V model for operation on external drivers can also be dimmed.

Light distribution	directed
Lighting technology	SMD-LED
Light guidance	reflector
Colour rendition	CRI >80
Materials	aluminium, polycarbonate
Surface	white, black
Mounting	recessed mounting

ORL 55



ORL 55 230 V

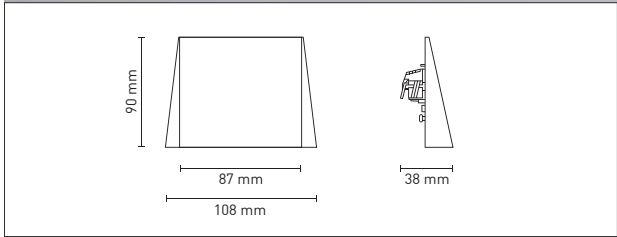
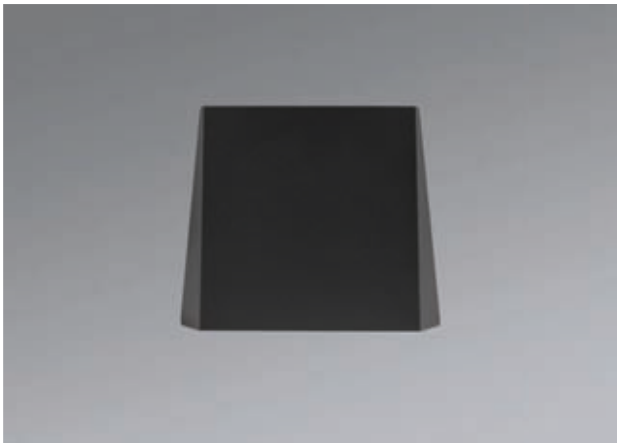
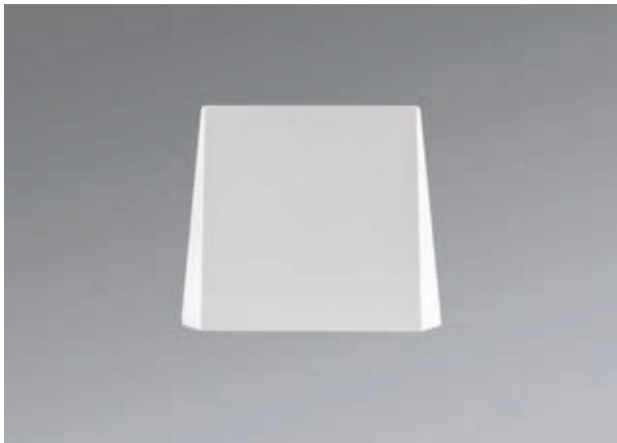
Switchable, 230 V 50/60 Hz

Light colour	Housing	Power	Luminous flux	Article no.
3000 K	white	2 W	60 lm	MGL 4028
3000 K	black	2 W	60 lm	MGL 4030

YouTube Find installation videos on YouTube under the search term 'MGL-LICHT'.

SPECIFICATION CRI >80 △ IP40 20 ⊗ Wall mounting	LIGHT DISTRIBUTION ORL 55 230 V 2 W 3000 K	LIGHTING EFFECT ORL 55
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ORL 55



ORL 55 DC 24 V

Light colour	Housing	Voltage	Power	Luminous flux	Article no.
3000 K	white	24 V	1.2 W	60 lm	MGL 4029
3000 K	black	24 V	1.2 W	60 lm	MGL 4031

YouTube Find installation videos on YouTube under the search term 'MGL-LICHT'.

SPECIFICATION

CRI >80
△ IP40 | 20
⊗ Wall mounting

LIGHT DISTRIBUTION

ORL 55
DC 24 V
1.2 W
3000 K

cd/klm
— C0 – C180
— C90 – C270

LIGHTING EFFECT

RECOMMENDED DRIVERS				
	Voltage	Power	Article no.	Article no.
switchable	DC 24 V	20 W	MGL 0153	dimmable via Dimming Module
				MGL 0229

ACCESSORIES	
Dimming Module DC12 – 24 V max. 55 W, 1 – 10 V/PUSH DIM	Article no. MGL 0229



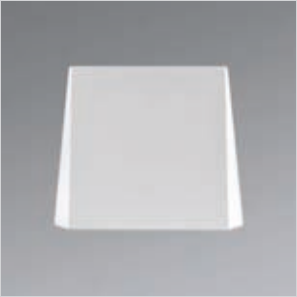
HIGH-QUALITY
TECHNOLOGY



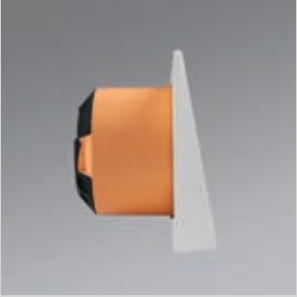
Back side of luminaire
(230 V with driver)



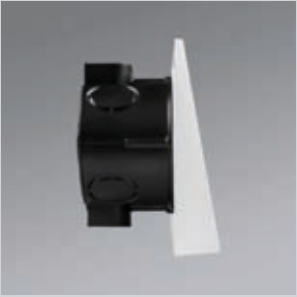
Gear tray installed in
one-gang box



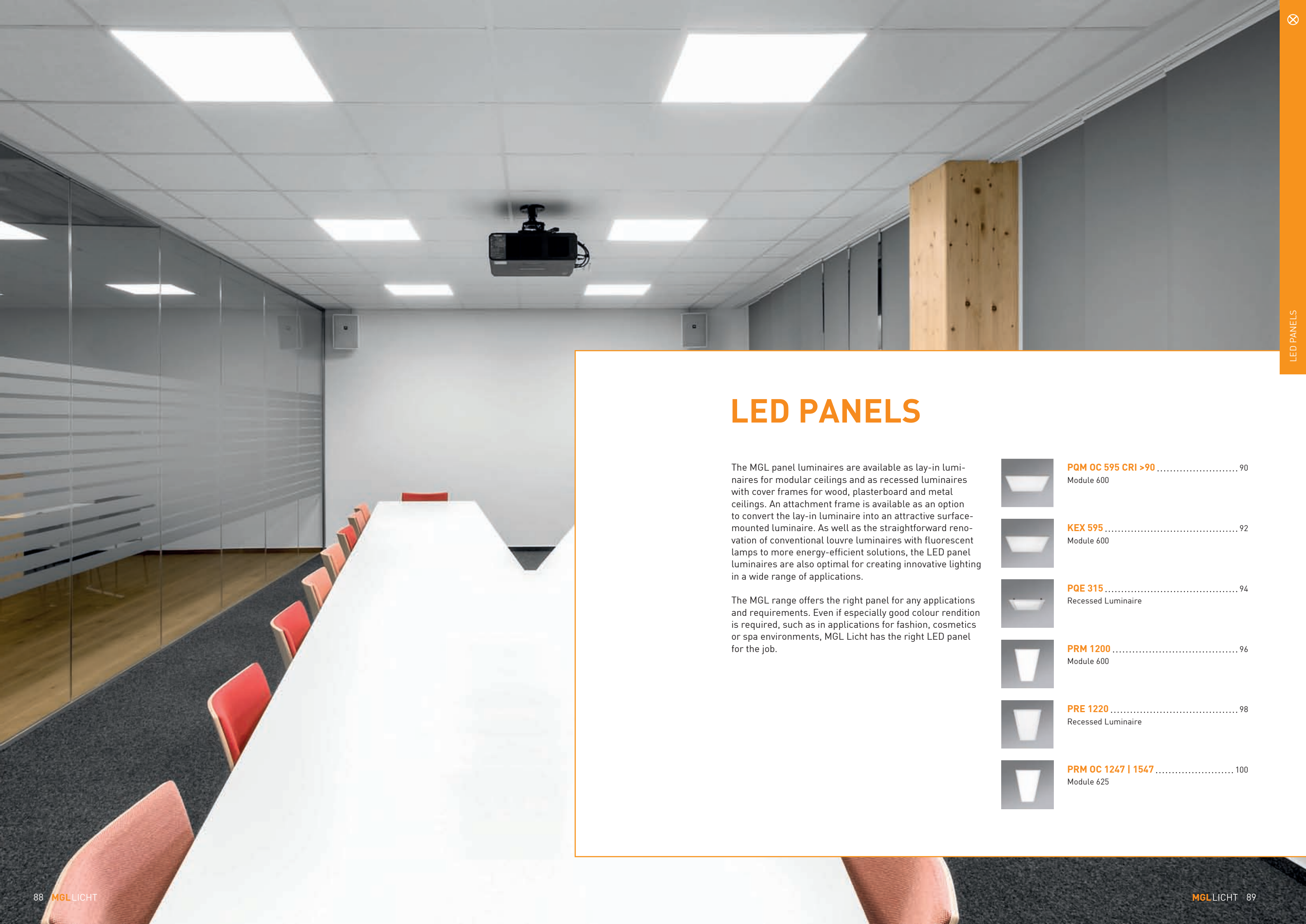
Top view of luminaire



Luminaire installed in
one-gang box for
cavity wall



Luminaire installed in
one-gang box



LED PANELS

The MGL panel luminaires are available as lay-in luminaires for modular ceilings and as recessed luminaires with cover frames for wood, plasterboard and metal ceilings. An attachment frame is available as an option to convert the lay-in luminaire into an attractive surface-mounted luminaire. As well as the straightforward renovation of conventional louvre luminaires with fluorescent lamps to more energy-efficient solutions, the LED panel luminaires are also optimal for creating innovative lighting in a wide range of applications.

The MGL range offers the right panel for any applications and requirements. Even if especially good colour rendition is required, such as in applications for fashion, cosmetics or spa environments, MGL Licht has the right LED panel for the job.



PQM OC 595 CRI >90 90
Module 600



KEX 595 92
Module 600



PQE 315 94
Recessed Luminaire



PRM 1200 96
Module 600



PRE 1220 98
Recessed Luminaire



PRM OC 1247 | 1547 100
Module 625



PQM OC 595 CRI >90

Light and colour determine the atmosphere and the well-being of those in the room. Natural colour rendition is an important task of good artificial lighting. This applies for colour detection in fashion, for well-being in medical and spa environments, for correct evaluations at inspection stations, and for achieving the right colour tones in cosmetic applications. This panel features the best colour rendition properties thanks to a CRI of >90.

Light distribution	wide beam, UGR<19
Lighting technology	SMD-LED
Light guidance	prismatic diffuser
Colour rendition	CRI >90
Materials	aluminium
Surface	white
Mounting	lay-in, surface-mounted



PQM OC 595 CRI >90



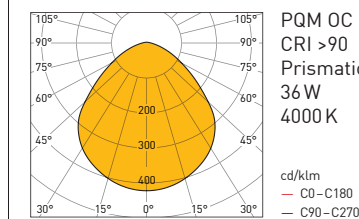
PQM OC 595 CRI >90 | MODULE 600

Light colour	Diffuser	Operating current	Power	Luminous flux	Article no.
3000 K	Prismatic	1050 mA	40 W	3220 lm	MGL 2119
for UGR < 19 max. operated at 1000 mA*					
4000 K	Prismatic	1050 mA	36 W	3590 lm	MGL 2120
for UGR < 19 max. operated at 900 mA					

SPECIFICATION

CRI >90
UGR <19
△ IP40 – Panel
IP20 – Driver
☒ Ceiling mounting
Surface mounting

LIGHT DISTRIBUTION



PQM OC 595
CRI >90
Prismatic diffuser
36 W
4000 K



RECOMMENDED DRIVERS For further drivers, see driver matrix, page 156

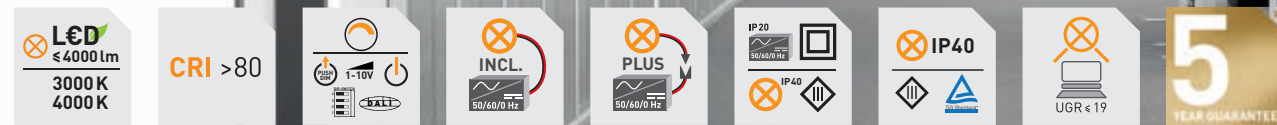
	Operating current	Article no.		Operating current	Article no.
⚡ switchable DIP-Switch	300 – 1050 mA	MGL 0112	⦿ dimmable 1 – 10 V	350 – 1050 mA	MGL 0105
⦿ dimmable DALI	300 – 1050 mA	MGL 0175	⦿ dimmable PUSH DIM	350 – 1050 mA	MGL 0105
* 1000 mA only possible with MGL 0112, MGL 0175		MGL 0105			



ACCESSORIES

	Article no.
Surface-mounted frame for LED Panel PQM OC, white	MGL 0104
Surface-mounted frame for LED Panel PQM OC, aluminium brushed	MGL 0144
Y single suspension, length 2000mm (2x per PQM OC 595 Panel)	MGL 0062
Connection & Through-wiring box for driver, with 3 wire cable	MGL 0208



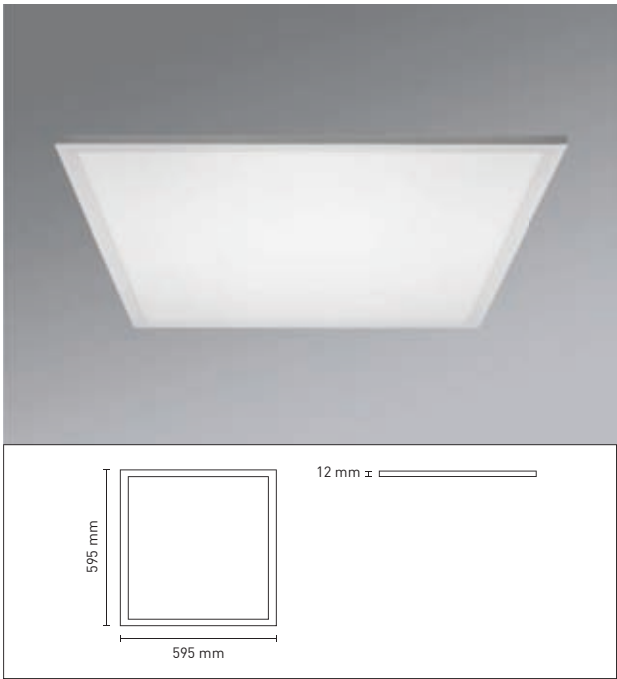
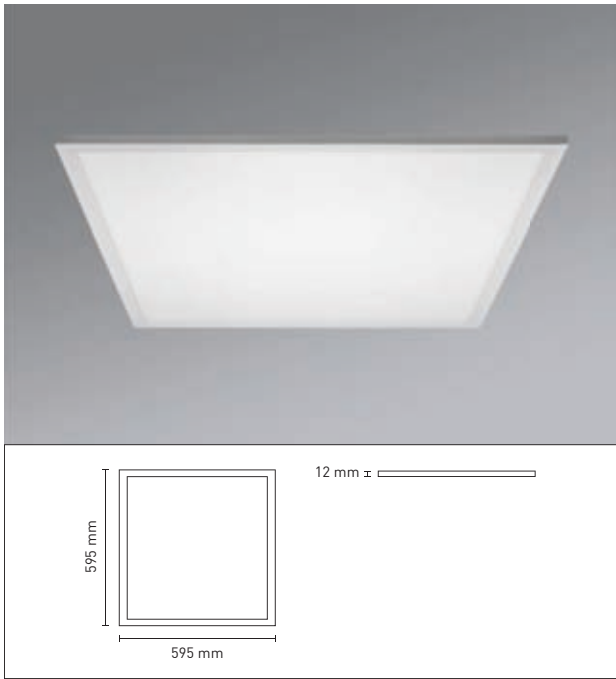


KEX 595

If investment costs take priority over energy efficiency and user comfort, KEX is the first port of call. When it comes to renovating old systems to optimise energy efficiency, this product already achieves a cost saving of 50 percent thanks to a system efficiency of 100 lm/W.

Light distribution	wide beam, UGR<19
Lighting technology	SMD-LED
Light guidance	pearl/prismatic diffuser
Colour rendition	CRI >80
Materials	aluminium
Surface	white
Mounting	lay-in, surface-mounted

KEX 595 MODULE 600



KEX 595

Please select driver separately

Light colour	Diffusor	Operating current	Power	Luminous flux	Article no.
3000 K	Pearl	1050 mA	36 W	3300 lm	MGL 2115
4000 K	Pearl	1050 mA	36 W	3600 lm	MGL 2116
3000 K	Prismatic	1050 mA	36 W	3600 lm	MGL 2118
4000 K	Prismatic	1050 mA	37 W	4000 lm	MGL 2117
UGR < 19					

KEX 595 | COMPLETE MODEL

Including driver switchable

Light colour	Diffusor	Operating current	Power	Luminous flux	Article no.
3000 K	Pearl	1050 mA	36 W	3300 lm	MGL 2104
4000 K	Pearl	1050 mA	36 W	3600 lm	MGL 2105
4000 K	Prismatic	1050 mA	37 W	4000 lm	MGL 2110
UGR < 19					

SPECIFICATION

CRI >80

- IP40 – Panel
- IP20 – Driver
- Ceiling mounting
- Surface mounting

LIGHT DISTRIBUTION

KEX 595 Pearl diffusor 36 W 4000 K

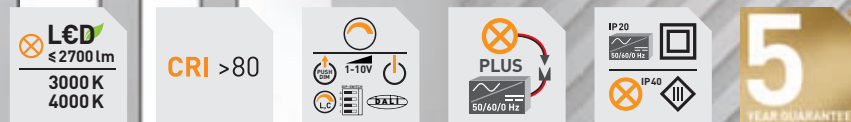
cd/klm
— C0 – C180
— C90 – C270

KEX 595 Prismatic diffusor 37 W 4000 K

cd/klm
— C0 – C180
— C90 – C270

RECOMMENDED DRIVERS For further drivers, see driver matrix, page 156					
	Operating current	Article no.		Operating current	Article no.
switchable DIP-Switch	300 – 1050 mA	MGL 0112	dimnable 1 – 10 V	350 – 1050 mA	MGL 0105
dimnable DALI	300 – 1050 mA	MGL 0175	dimnable PUSH DIM	350 – 1050 mA	MGL 0105
	350 – 1050 mA	MGL 0105			

ACCESSORIES	Article no.
Surface-mounted frame for LED Panel KEX 595, 600 x 600 mm, white	MGL 0104
Surface-mounted frame for LED Panel KEX 595, 600 x 600 mm, aluminium brushed	MGL 0144
Y single suspension, length 2000mm (2x per KEX 595 Panel)	MGL 0062
Connection & Through-wiring box for driver, with 3 wire cable	MGL 0208



PQE 315

This luminaire in small format matches the appearance and design of the LED panel family. PQE 315 is a useful addition in lighting concepts for office and administration buildings in areas where the larger panels with higher light output cannot be used, e.g. in corridors, lobbies or side rooms. The light output of this small panel is also determined by the choice of the driver from the driver matrix. PQE 315 provides uniform and glare free lighting (UGR <22). It is available in warm white with 3000 K or in neutral white with 4000 K, always with pearl diffusor optic. The different power levels ranging from 14 W with 1200 lm up to 30 W with 2700 lm prove the energy efficiency of this panel.

- Light distribution

Lighting technology

Light guidance

Colour rendition

Materials

Surface

Mounting
- wide beam

SMD-LED

pearl diffusor

CRI >80

aluminium

white

recessed mounting

PQE 315



PQE 315 | RECESSED MOUNTING

Including mounting springs

Light colour	Diffusor	Operating current	Power	Luminous flux	Article no.
3000 K	Pearl	350 mA	14 W	1180 lm	MGL 2049
		500 mA	20 W	1690 lm	
		700 mA	28 W	2360 lm	
		750 mA	30 W	2530 lm	
4000 K	Pearl	350 mA	14 W	1270 lm	MGL 2050
		500 mA	20 W	1810 lm	
		700 mA	28 W	2520 lm	
		750 mA	30 W	2700 lm	

SPECIFICATION
CRI >80
△ IP 40 – Panel
IP 20 – Driver
⌘ Recessed mounting

LIGHT DISTRIBUTION

PQE 315
Pearl
diffusor
30 W
4000 K

cd/klm
— C0 – C180
— C90 – C270

RECOMMENDED DRIVERS <small>For further drivers, see driver matrix, page 156</small>			
	Operating current	Article no.	
⌘ switchable	750 mA	MGL 0113	⌘ dimmable DALI, 1 – 10V, PUSH DIM
⌘ switchable DIP-Switch	250 – 700 mA	MGL 0115	⌘ dimmable PHASE DIM
			Operating current Article no.
			750 mA MGL 0106
			700 mA MGL 0117

ACCESSORIES		Article no.
6x protective plates for plaster board		MGL 0061
Spare mounting clips, 4 pcs		MGL 0085
Connection & Through-wiring box for driver, with 3 wire cable		MGL 0208

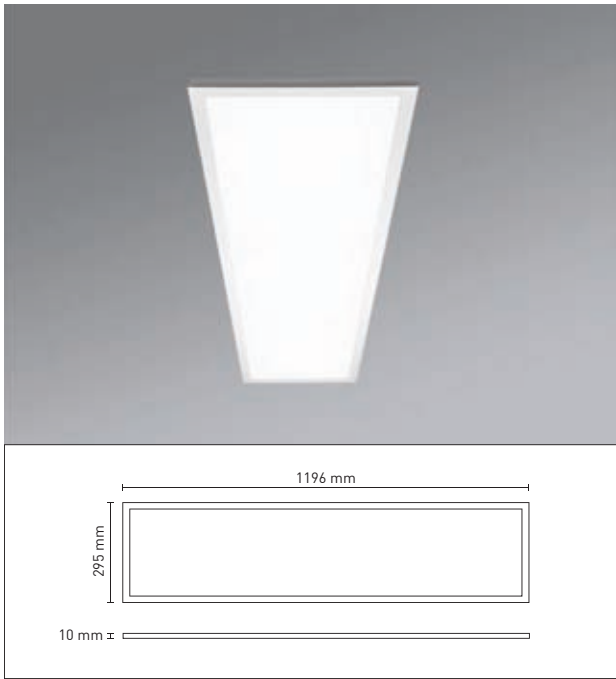


PRM | PRE

As well as the straightforward renovation of conventional louvre luminaires with fluorescent lamps to more energy-efficient solutions, the MGL LED panel luminaires are also ideal for creating innovative lighting in a wide range of applications. Whether laid into modular ceilings, mounted in recessed ceilings or surface mounted on ceilings or walls using frames, these panels are extremely versatile.

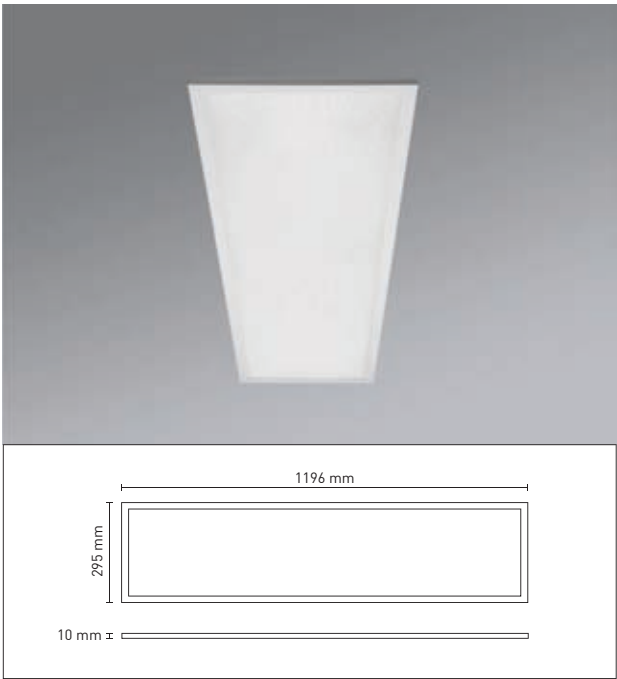
Light distribution	wide beam, UGR<19
Lighting technology	SMD-LED
Light guidance	pearl/prismatic diffuser
Colour rendition	CRI >80
Materials	aluminium
Surface	white
Mounting	lay-in, surface-mounted, recessed mounting

PRM | PRM OC



PRM 1200 | MODULE 600

Light colour	Diffuser	Operating current	Power	Luminous flux	Article no.
3000 K	Pearl	750 mA	32 W	3700 lm	MGL 2208
4000 K	Pearl	750 mA	27 W	3530 lm	MGL 2209



PRM OC 1200 | MODULE 600

Light colour	Diffuser	Operating current	Power	Luminous flux	Article no.
4000 K	Prismatic	750 mA	29 W	3570 lm	MGL 2210
UGR < 19					

SPECIFICATION

CRI >80
UGR <19 (PRM OC 1200)
△ IP40 – Panel
IP20 – Driver
☒ Ceiling mounting
Surface mounting

LIGHT DISTRIBUTION

PRM 1200
Pearl
diffuser
27 W
4000 K

PRM OC 1200
Prismatic
diffuser
29 W
4000 K

RECOMMENDED DRIVERS <small>For further drivers, see driver matrix, page 156</small>					
	Operating current	Article no.		Operating current	Article no.
⚡ switchable	750 mA	MGL 0113	⚡ dimmable 1 – 10 V	750 mA	MGL 0106
⚡ dimmable DALI	750 mA	MGL 0176	⚡ dimmable PUSH DIM	750 mA	MGL 0106
	750 mA	MGL 0106			

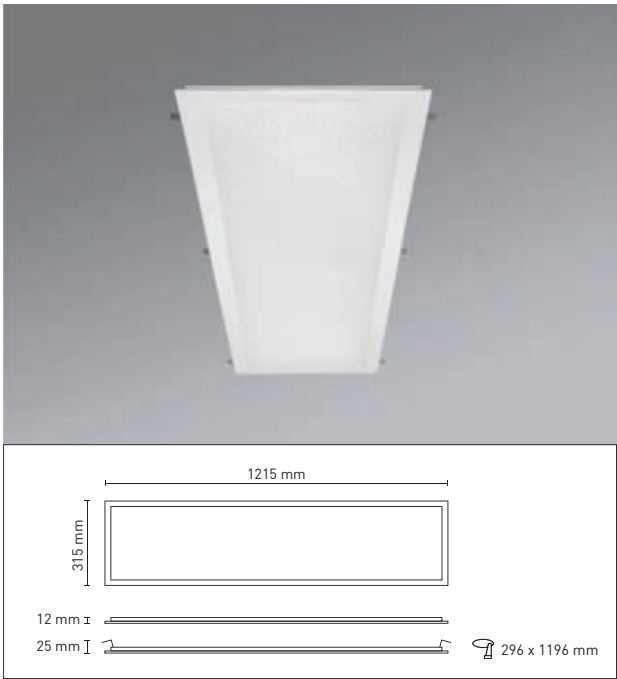
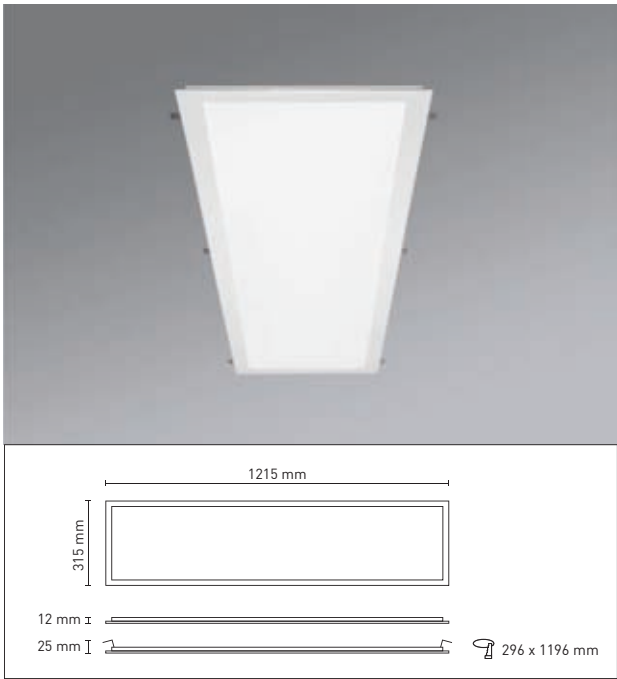
★ ACCESSORIES	Article no.
Surface-mounted frame for LED Panel PRM and PRMOC, white	MGL 0060
Surface-mounted frame for LED Panel PRM and PRMOC, aluminium brushed	MGL 0129
Y single suspension, length 2000mm (3 x per PRM/OC 1200 Panel)	MGL 0062
Connection & Through-wiring box for driver, with 3 wire cable	MGL 0208

96 MGL LICHT

MGL LICHT 97

LED PANELS

PRE | PRE OC



PRE 1220 | RECESSED MOUNTING

Including mounting springs

Light colour	Diffusor	Operating current	Power	Luminous flux	Article no.
3000 K	Pearl	750 mA	32 W	3700 lm	MGL 2 211
4000 K	Pearl	750 mA	27 W	3530 lm	MGL 2212

PRE OC 1220 | RECESSED MOUNTING

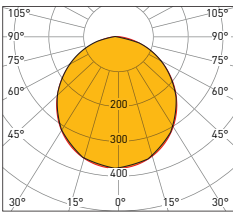
Including mounting springs

Light colour	Diffusor	Operating current	Power	Luminous flux	Article no.
4000 K	Prismatic	750 mA	29 W	3570 lm	MGL 2213
UGR < 19					

SPECIFICATION

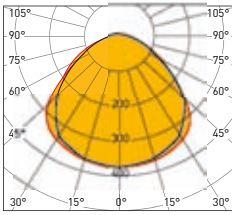
- CRI >80
- UGR <19 (PRE OC 1220)
- △ IP 40 – Panel
- IP 20 – Driver
- ⊗ Recessed mounting

LIGHT DISTRIBUTION



PRE 1220
Pearl
diffusor
27 W
4000 K

cd/klm
— C0–C180
— C90–C270



PRE OC 1220
Prismatic
diffusor
29 W
4000 K

cd/klm
— C0–C180
— C90–C270



RECOMMENDED DRIVERS For further drivers, see driver matrix, page 92

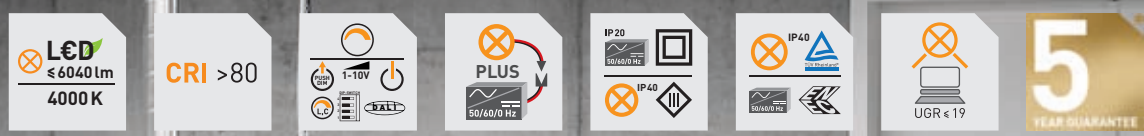
	Operating current	Article no.		Operating current	Article no.
⚡ switchable	750 mA	MGL 0113	⚡ dimmable 1 – 10 V	750 mA	MGL 0106
⚡ dimmable DALI	750 mA	MGL 0176	⚡ dimmable PUSH DIM	750 mA	MGL 0106
	750 mA	MGL 0106			



ACCESSORIES

	Article no.
6x protective plates for plaster board	MGL 0061
Spare mounting clips, 4 pcs	MGL 0085
Connection & Through-wiring box for driver, with 3 wire cable	MGL 0208



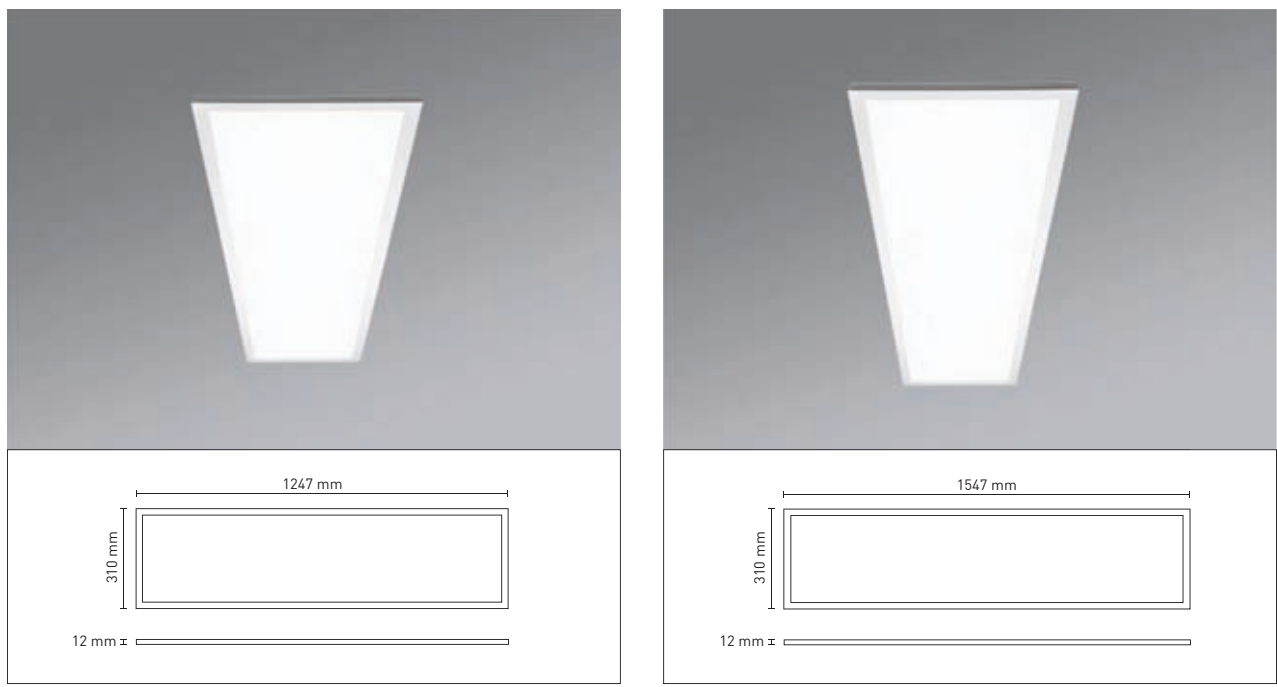


PRM OC 1247 | 1547

The need for improved energy efficiency in office and administrative sectors is enormous. Decades-old luminaires with fluorescent lamps from the first and second generation are still in day-to-day use, with dusty louvres, yellowed edges, flickering ballasts and extremely inefficient energy consumption. Many building owners are afraid of making changes after removing recessed ceiling luminaires. The PRM OC panels with optional attachment frames are dimensioned in such a way that the installation areas of most 'old luminaires' can be covered completely without having to call in drywallers and painters. The two PRM OC panels can be laid into 625/625 modular ceilings and fit into place perfectly.

Light distribution	wide beam, UGR<19
Lighting technology	SMD-LED
Light guidance	prismatic diffusor
Colour rendition	CRI >80
Materials	aluminium
Surface	white
Mounting	lay-in, surface-mounted

PRM OC 1247 | 1547



PRM OC 1247 | MODULE 625

Light colour	Diffusor	Operating current	Power	Luminous flux	Article no.
4000 K	Prismatic	350 mA	14 W	1300 lm	MGL 2215
UGR < 19		500 mA	19 W	1890 lm	
		700 mA	27 W	2710 lm	
		1050 mA	40 W	4150 lm	

PRM OC 1547 | MODULE 625

Light colour	Diffusor	Operating current	Power	Luminous flux	Article no.
4000 K	Prismatic	700 mA	30 W	2820 lm	MGL 2214
UGR < 19		1050 mA	45 W	4180 lm	
		1600 mA	64 W	6040 lm	

SPECIFICATION

CRI >80
UGR <19
△ IP40 – Panel
△ IP20 – Driver
☒ Ceiling mounting
☒ Surface mounting

LIGHT DISTRIBUTION

PRM OC 1247
Prismatic diffusor
40 W
4000 K
cd/klm
— C0 – C180
— C90 – C270

PRM OC 1547
Prismatic diffusor
64 W
4000 K
cd/klm
— C0 – C180
— C90 – C270

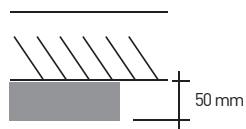
RECOMMENDED DRIVERS		
For further drivers, see driver matrix, page 92		
	Operating current	Article no.
⚡ switchable DIP-Switch	300 – 1050 mA	MGL 0112
⚡ dimmable DALI	300 – 1050 mA	MGL 0175
⚡ dimmable DALI	300 – 1050 mA	MGL 0011
⚡ dimmable 1 – 10 V	300 – 1050 mA	MGL 0011
⚡ dimmable PUSH DIM	300 – 1050 mA	MGL 0011

RECOMMENDED DRIVERS		
For further drivers, see driver matrix, page 92		
	Operating current	Article no.
⚡ switchable	1600 mA	MGL 0165
⚡ switchable DIP-Switch	300 – 1050 mA	MGL 0010
⚡ dimmable DALI	350 – 1050 mA	MGL 0011
⚡ dimmable 1 – 10 V	350 – 1050 mA	MGL 0011
⚡ dimmable PUSH DIM	350 – 1050 mA	MGL 0011

★ ACCESSORIES

	Article no.
Surface-mounted frame for LED Panel PRM OC 1547, white	MGL 0148
Surface-mounted frame for LED Panel PRM OC 1247, white	MGL 0149
Y single suspension, length 2000mm (3 x per PRM OC 1247 / 1547 Panel)	MGL 0062
Connection & Through-wiring box for driver, with 3 wire cable	MGL 0208

HIGH-QUALITY TECHNOLOGY



ATTACHMENT FRAME – TURNS A PANEL INTO A SURFACE-MOUNTED LUMINAIRE

Attachment frames are available for all panel shapes and sizes. These frames are pre-mounted and turn a panel into a surface-mounted luminaire for the ceiling or the wall. The panel is pushed into the side of the frame with the driver. The open edge of the attachment frame is then pushed in and closed without the need for tools.



Find installation videos on YouTube under the search term 'MGL-LICHT'.



STEEL WIRE SUSPENSION KIT, 1 Y-SUSPENSION

The kit includes one Y-suspension and two metres of wire with height-adjustable installation elements. Two suspension kits should be ordered for square panels, and three kits for rectangular panels.

STAGING A MINIMALIST DESIGN



Whether mounted on the wall or ceiling, the square and rectangular module panels with decorative brushed aluminium attachment frame are perfect for achieving a sophisticated lighting concept. Create a quite unique ambiance in the room with the MGL LED panel. This classically minimalist luminaire makes for a pleasant atmosphere in areas such as:

- reception desks
- hotels / restaurants
- windowless rooms
- presentation spaces
- waiting areas
- stairwells



SPOTLIGHTS

Spotlights transform their surroundings into a stage – which is the application they were originally designed for. The possibilities of flexible staging in combination with tracks are used for shop windows, showrooms, museums and not least even in residential spaces.

LED technology has reduced the initial disadvantages of spotlights, such as low system efficiency and high cooling loads, and given these products a fresh appeal. Conventional spotlights can be replaced with LED spotlights in existing track systems without intensive installation work. Each MGL spotlight is equipped with the EUTRAC universal adapter and is therefore compatible with all established three-phase track systems on the market. The ABS mini spotlights are offered with the related 1-phase track system.

CRI >90

All MGL spotlights have a **high colour rendering index of >90** to produce an especially natural, unadulterated rendition of even the finest nuances of colour.



ABS System 106
Mini Spotlight



Spot Z1100+ 108
Spotlight



Spot Z2000+ 110
Spotlight



Spot Z2000+ DIM 110
Spotlight



Spot Z3000+ 111
Spotlight



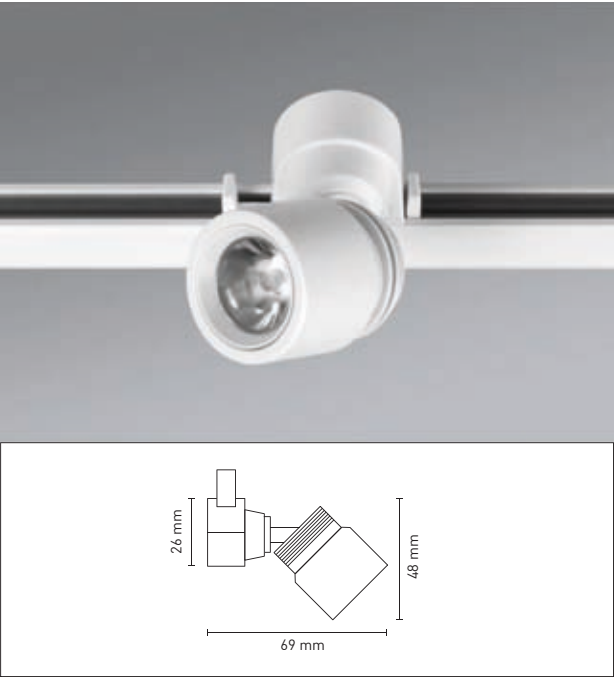
ABS SPOT 30

The ABS accent lighting system is based on the miniaturised MGL low-voltage track and corresponding LED spotlights with lens technology in different beam angles. Thanks to the size and astounding light output, the ABS system is ideal for close-up lighting tasks. Often used as a switchable version on sales floors, this system can also be used as a dimmable version for museum lighting – it just depends on what driver is selected. The optionally available anti-glare ring, which can be installed without tools, concentrates the light on an object.

Light distribution	narrow beam, 12° / 24° [355° rotatable, 90° swivable]
Lighting technology	SMD-LED
Light guidance	optical lens
Colour rendition	CRI >90
Materials	aluminium, polycarbonate
Surface	white, black
Mounting	MGL Low-Voltage Track



ABS SPOT 30



ABS SPOT 30 | 24°

DC12V, beam angle 24°

Light colour	Housing	Operating current	Power	Luminous flux	Article no.
3000 K	black	700 mA	3 W	160 lm	MGL 5068
3000 K	white	700 mA	3 W	160 lm	MGL 5070

ABS SPOT 30 | 12°

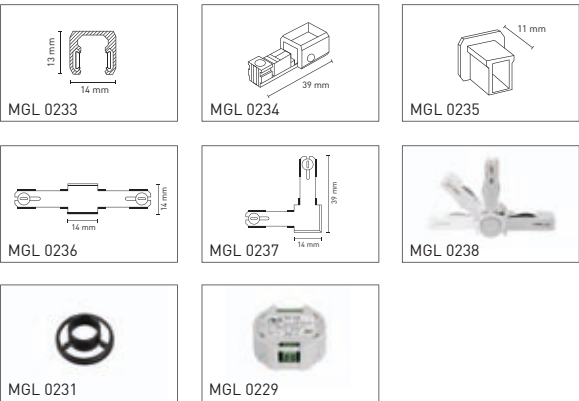
DC12V, beam angle 12°

Light colour	Housing	Operating current	Power	Luminous flux	Article no.
3000 K	black	700 mA	3 W	160 lm	MGL 5069
3000 K	white	700 mA	3 W	160 lm	MGL 5071

SPECIFICATION		LIGHT DISTRIBUTION					
CRI >90 △ 12° 24° 355° rotatable 90° swivable △ IP 20 ⊗ Ceiling mounting in Low-Voltage Track	Distance	Light cone		Lx	E _m		
	0.5 m	0.27 m Ø		1005 Lx			
	1 m	0.54 m Ø		247 Lx			
	1.5 m	0.82 m Ø		108 Lx			
	2 m	1.09 m Ø		61 Lx			
	2.5 m	1.36 m Ø		39 Lx			
		24°		3000 K			
				700 mA, 3 W, 160 lm			
	Distance	Light cone		Lx	E _m		
	0.5 m	0.15 m Ø		2688 Lx			
	1 m	0.29 m Ø		691 Lx			
	1.5 m	0.44 m Ø		302 Lx			
	2 m	0.58 m Ø		170 Lx			
	2.5 m	0.73 m Ø		108 Lx			
		12°		3000 K			
				700 mA, 3 W, 160 lm			

RECOMMENDED DRIVERS				Article no.
⏻ switchable	Voltage	Power		
	DC12V	20W	Article no.	
	DC12V	50W	MGL 0227	
⦿ dimmable via Dimming module				MGL 0229

SYSTEM COMPONENTS		Article no.
Track, aluminium white, length 1000 mm		MGL 0233
Track, aluminium white, length 2000 mm		MGL 0239
End feed, polycarbonate white		MGL 0234
End cap, polycarbonate white		MGL 0235
Straight connector, polycarbonate white		MGL 0236
Connector 90°, polycarbonate white		MGL 0237
Connector 90 – 180° flexible, polycarbonate white		MGL 0238
Track, aluminium black, length 1000 mm		MGL 0240
Track, aluminium black, length 2000 mm		MGL 0242
End feed, polycarbonate black		MGL 0223
End cap, polycarbonate black		MGL 0224
Straight connector, polycarbonate black		MGL 0225
Connector 90°, polycarbonate black		MGL 0226
Connector 90 – 180° flexible, polycarbonate black		MGL 0230
Anti-glare ring for ABS SPOT30		MGL 0231
Dimming module DC12-24V max. 55W, 1-10V, PUSH DIM		MGL 0229





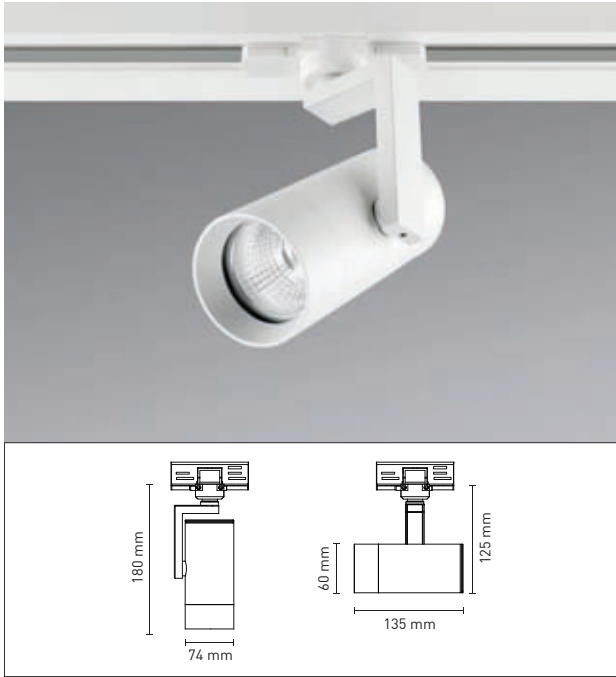
SPOT Z1100+ | Z2000+ | Z3000+

Three sizes, three output levels, one design: that's the Z1100+, Z2000+, Z3000+ spotlight range. The Z2000+ DIM is an addition for the medium size, a spotlight with EUTRAC three-phase universal adapter that is dimmable on the housing. The right spotlight is selected based on the application and the distance to the object in focus. Available as accessories with additional beam angles, the reflectors can be exchanged without tools if accentuated lighting is desired instead of wide-area light distribution.

Light distribution	narrow beam/semi wide beam, 40°/56° (12°/20° as accessory)
Lighting technology	COB-LED
Light guidance	aluminium reflector
Colour rendition	CRI >90
Materials	aluminium
Surface	white, grey, black
Mounting	3-phase universal adaptor



SPOT Z1100+




SPOT Z1100+


☑ Switchable

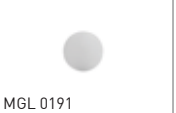
Light colour	Housing	Power	Luminous flux	Article no.
3000 K	white	15 W	1120 lm	MGL 5024
4000 K	white	15 W	1200 lm	MGL 5026
3000 K	grey	15 W	1120 lm	MGL 5025
4000 K	grey	15 W	1200 lm	MGL 5027

SPECIFICATION		LIGHT DISTRIBUTION		
CRI >90		Distance	Light cone	Lx E _m
▲ 56°		1 m	1.14 m ø	799 Lx
rotatable 355°		1.5 m	1.70 m ø	353 Lx
swivable +90°		2 m	2.27 m ø	196 Lx
▲ IP 20		2.5 m	2.84 m ø	125 Lx
☒ Ceiling mounting in 3-phase track		3 m	3.41 m ø	87 Lx
		4000 K 350 mA, 15 W, 1200 lm		

* ACCESSORIES	Article no.
Exchangeable reflector 20°	MGL 0052
Honeycomb mesh for SPOT Z1100+	MGL 0190
Oval outline lens for SPOT Z1100+	MGL 0191


MGL 0052


MGL 0190

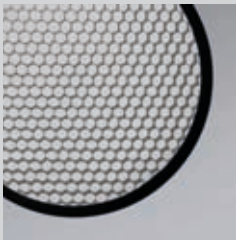

MGL 0191

HIGH-QUALITY ACCESSORIES



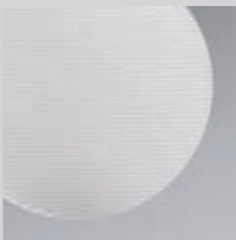
Exchangeable reflectors

- different beam angles can be selected
- replace the standard reflector
- toolless exchange



Honeycomb mesh

- avoids direct glare
- absorbs stray light
- is positioned in front of the reflector
- toolless mounting



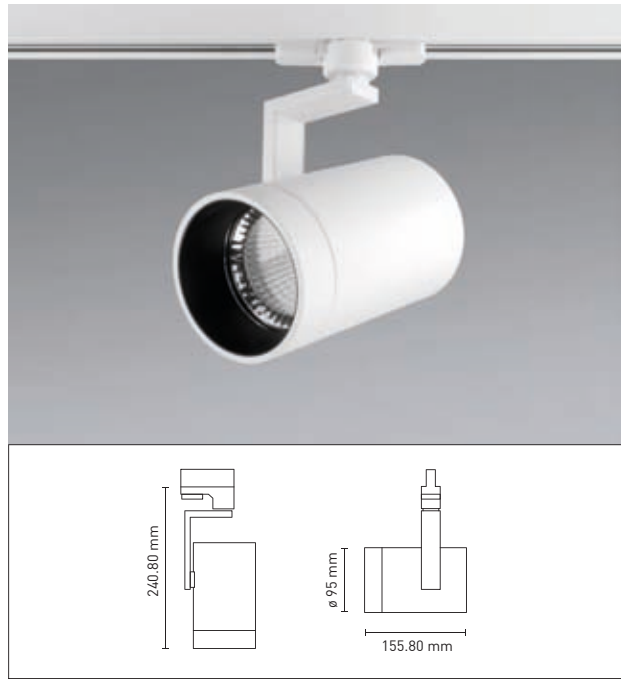
Oval outline lens

- creates an oval light cone
- for sculptural lighting effects
- replaces the integrated protection glass
- toolless exchange

PROJECT SOLUTIONS ON DEMAND

SPOT Z1100+ also available in black upon request

SPOT Z2000+



SPOT Z2000+

Switchable

Light colour	Housing	Power	Luminous flux	Article no.
3000 K	white	29 W	2150 lm	MGL 5028
4000 K	white	29 W	2300 lm	MGL 5029
3000 K	black	29 W	2150 lm	MGL 5030
4000 K	black	29 W	2300 lm	MGL 5031
3000 K	grey	29 W	2150 lm	MGL 5032
4000 K	grey	29 W	2300 lm	MGL 5033

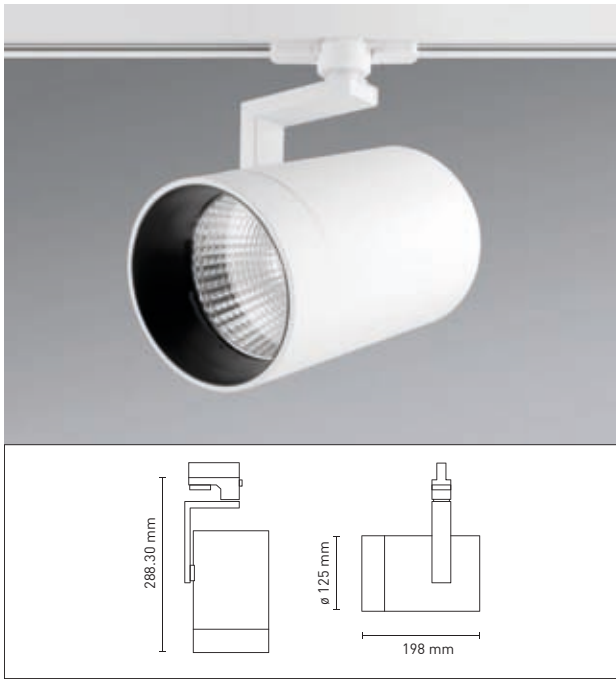


SPOT Z2000+ DIMMABLE

Switchable (dimnable 25 – 100 % via integrated potentiometre)

Light colour	Housing	Power	Luminous flux	Article no.
3000 K	white	29 W	2150 lm	MGL 5034
4000 K	white	29 W	2300 lm	MGL 5035
3000 K	black	29 W	2150 lm	MGL 5036
4000 K	black	29 W	2300 lm	MGL 5037
3000 K	grey	29 W	2150 lm	MGL 5038
4000 K	grey	29 W	2300 lm	MGL 5039

SPOT Z3000+



SPOT Z3000+

Switchable

Light colour	Housing	Power	Luminous flux	Article no.
3000 K	white	40 W	3060 lm	MGL 5052
4000 K	white	40 W	3280 lm	MGL 5053
3000 K	black	40 W	3060 lm	MGL 5054
4000 K	black	40 W	3280 lm	MGL 5055
3000 K	grey	40 W	3060 lm	MGL 5056
4000 K	grey	40 W	3280 lm	MGL 5057



SPECIFICATION	LIGHT DISTRIBUTION		
CRI >90			
▲ 40°			
rotatable 355°			
swivable +/-90°			
△ IP20			
⊗ Ceiling mounting in 3-phase track			
	<i>Distance</i>	<i>Light cone</i>	<i>Lx E_m</i>
	1 m	0.78 m ø	2550 Lx
	1.5 m	1.18 m ø	1087 Lx
	2 m	1.57 m ø	601 Lx
	2.5 m	1.96 m ø	381 Lx
	3 m	2.35 m ø	263 Lx
		4000 K	
		29 W, 2300 lm	

* ACCESSORIES	Article no.
Exchangeable reflector 10°	MGL 0053
Exchangeable reflector 20°	MGL 0054
Honeycomb mesh for SPOT Z2000+	MGL 0180
Oval outline lens for SPOT Z2000+	MGL 0182

MGL 0053

MGL 0180

MGL 0182

SPECIFICATION	LIGHT DISTRIBUTION		
CRI >90	Distance	Light cone	Lx E _m
△ 40°	1 m	0.74 m ø	4458 Lx
rotatable 355°	1.5 m	1.11 m ø	1992 Lx
swivable +/-90°	2 m	1.48 m ø	1118 Lx
△ IP20	2.5 m	1.85 m ø	714 Lx
⊗ Ceiling mounting in	3 m	2.22 m ø	497 Lx
3-phase track		4000 K	
		40 W, 3280 lm	

* ACCESSORIES	Article no.
Exchangeable reflector 12°	MGL 0055
Exchangeable reflector 20°	MGL 0056
Honeycomb mesh for SPOT Z3000+	MGL 0181
Oval outline lens for SPOT Z3000+	MGL 0183

MGL 0055

MGL 0181

MGL 0183



INDUSTRIAL LUMINAIRES

Optimising productivity, improving energy efficiency and increasing workplace safety are all objectives of every company. The lighting concept is increasingly coming into focus as a solution to this – in new builds as well as renovation projects. High bay luminaires are ideal for rooms and spaces with high ceilings. Thanks to LED technology, investing in new lighting systems quickly pays for itself due to the significantly lower operating costs. Energy consumption is reduced, and maintenance costs for changing bulbs practically disappear altogether thanks to the long service life of the LEDs. In rooms with lower ceilings, efficient LED moisture-proof luminaires have comparable results when they are used to replace conventional fluorescent lamps.



HTS 100 | 150 | 200 114
High-bay Luminaires



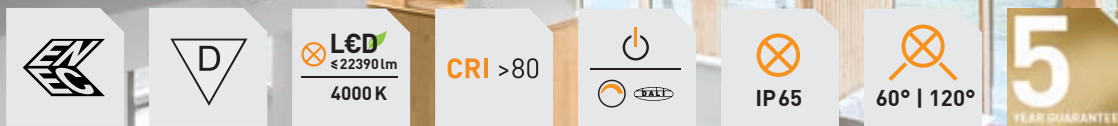
HTS 300 118
High-bay Luminaires



FRT 1200 | 1500 122
Moisture Proof Luminaires



LOM 900 | 1200 | 1500 124
Moisture Proof Luminaires

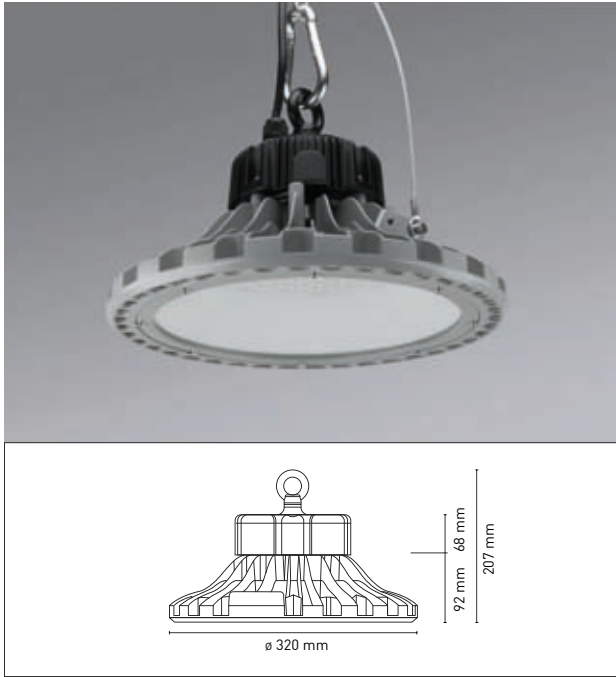


HTS 100 | 150 | 200

Buildings with tall ceilings and lots of open space often require a great amount of light depending on how they are used . Thanks to LED technology, there's no longer a need to worry about high electricity costs where lots of light is needed. Operators of industrial halls, warehouses, sales halls and terminals can now consider upgrading their lighting systems a very attractive proposition. The HTS MGL range includes the entire spectrum of light output and technology, even for lighting control, if desired. All HTS models are developed and manufactured for indoor use at operating temperatures of up to 45°C.

Light distribution	wide beam, 120° narrow beam, 60°
Lighting technology	SMD-LED
Light guidance	aluminium reflector
Colour rendition	CRI >80
Materials	aluminium
Surface	grey-black
Mounting	pendant mounting, surface-mounted, incl. 3 m connecting cable
Installation	inrush current, see page 183

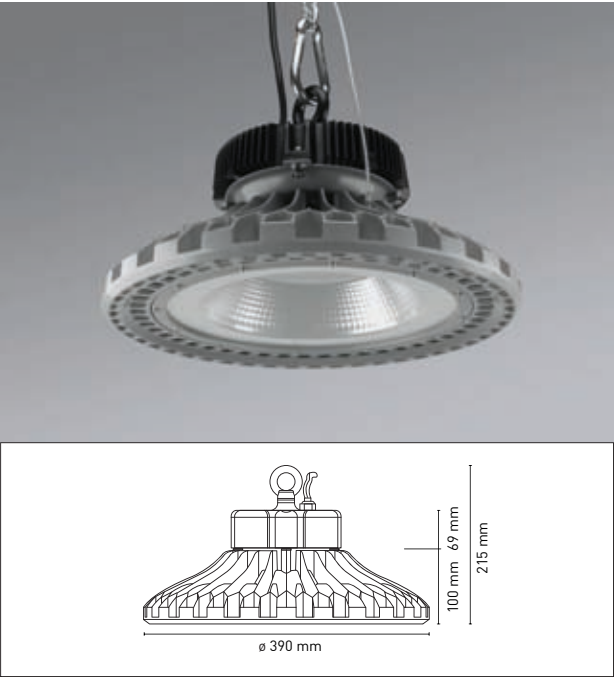
HTS 100 | 150



HTS 100

Switchable

Light colour	Diffuser	Beam angle	Power	Luminous flux	Article no.
4000 K	Clear glass	120°	100 W	11260 lm	MGL 3508
4000 K	Opal PMMA	120°	100 W	9420 lm	MGL 3509



HTS 150

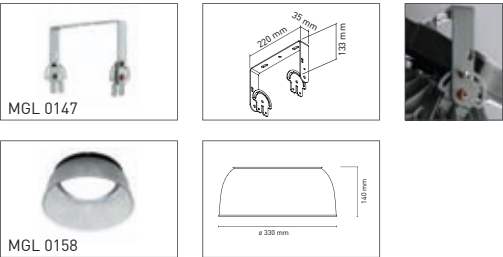
Switchable

Light colour	Diffuser	Beam angle	Power	Luminous flux	Article no.
4000 K	Clear glass	120°	150 W	16760 lm	MGL 3510
4000 K	Opal PMMA	120°	150 W	14680 lm	MGL 3511
4000 K	Clear glass	60°	150 W	17260 lm	MGL 3512

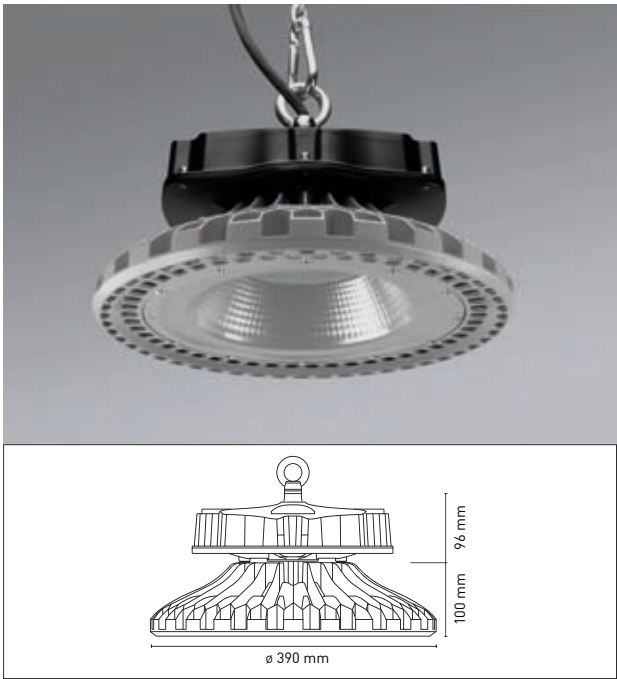
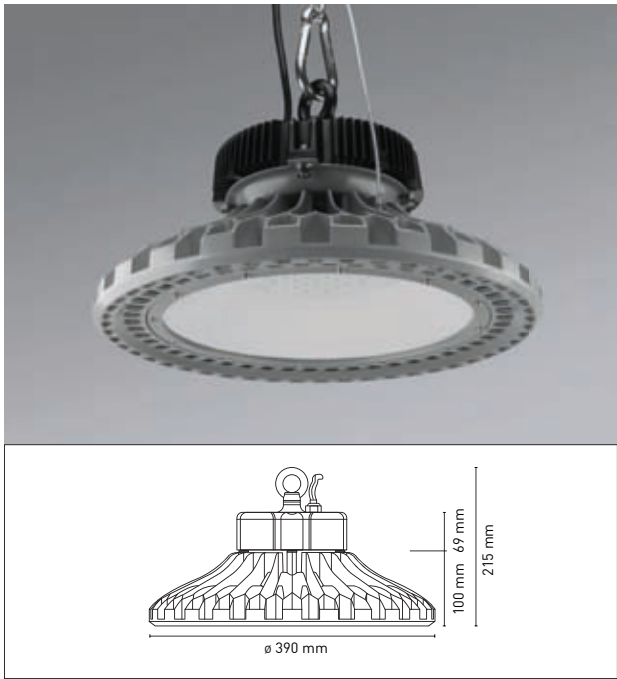
YouTube Find installation videos on YouTube under the search term 'MGL-LICHT'.

SPECIFICATION		LIGHT DISTRIBUTION			
CRI >80 ▲ 120° 60° ▲ IP 65 ☒ Ceiling mounting ☒ Wall mounting ▽ Suitable for use in fire hazardous locations		Distance	Light cone	Lx E _m	
		1 m	3 m ø	1160 Lx	
		2 m	6 m ø	280 Lx	
		3 m	9 m ø	125 Lx	
		4 m	12 m ø	70 Lx	
		5 m	15 m ø	45 Lx	
		HTS 100	120°		
		Clear glass	4000 K, 100 W, 11260 lm		
		Distance	Light cone	Lx E _m	
		1 m	3 m ø	1770 Lx	1.5 m ø 5270 Lx
		2 m	6 m ø	430 Lx	2.8 m ø 1280 Lx
		3 m	9 m ø	190 Lx	4.2 m ø 550 Lx
		4 m	12 m ø	110 Lx	5.5 m ø 310 Lx
		5 m	15 m ø	70 Lx	7 m ø 200 Lx
		HTS 150	120°		
		Clear glass	4000 K, 150 W, 16760 lm	60°	4000 K, 150 W, 17260 lm

* ACCESSORIES	Article no.
Mounting bracket complete for wall and ceiling mounting for both sizes, alternatively to the standard pendant suspension	MGL 0147
Reflector for HTS 100 from transparent polycarbonate, Ø = 330 mm, H = 140 mm	MGL 0158



HTS 200



HTS 200

Switchable

Light colour	Diffusor	Beam angle	Power	Luminous flux	Article no.
4000 K	Clear glass	120°	200 W	21680 lm	MGL 3513
4000 K	Opal PMMA	120°	200 W	19160 lm	MGL 3514
4000 K	Clear glass	60°	200 W	22390 lm	MGL 3515

HTS 200 DALI DIM

DALI DIM

Light colour	Diffusor	Beam angle	Power	Luminous flux	Article no.
4000 K	Clear glass	120°	200 W	21680 lm	MGL 3516
4000 K	Opal PMMA	120°	200 W	19160 lm	MGL 3517
4000 K	Clear glass	60°	200 W	22390 lm	MGL 3518

SPECIFICATION

- CRI >80
- △ 120° | 60°
- △ IP65
- ⊗ Ceiling mounting
- ⊗ Wall mounting

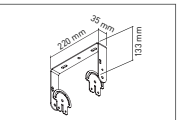
LIGHT DISTRIBUTION

Distance	Light cone	Lx E _m	Light cone	Lx E _m
1 m	3 m ø	2280 Lx	1.5 m ø	6860 Lx
2 m	6 m ø	550 Lx	2.8 m ø	1680 Lx
3 m	9 m ø	250 Lx	4.2 m ø	725 Lx
4 m	12 m ø	140 Lx	5.5 m ø	410 Lx
5 m	15 m ø	90 Lx	7 m ø	260 Lx
HTS 200 Clear glass	120° 4000 K, 200 W, 21680 lm		60° 4000 K, 200 W, 22390 lm	

★ ACCESSORIES

Mounting bracket complete
for wall and ceiling mounting for both sizes,
alternatively to the standard pendant suspension

Article no.
MGL 0147



HIGH-QUALITY TECHNOLOGY



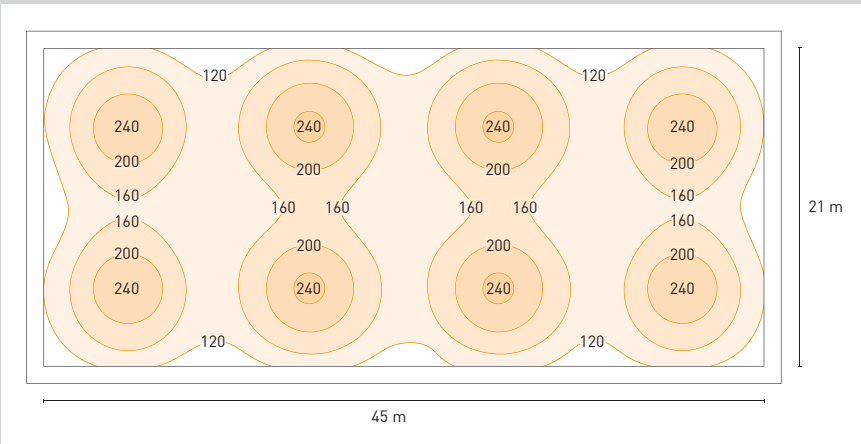
BEFORE

- HQL pendant luminaires
(high-pressure mercury vapour lamp)
- System consumption:
445 watts/luminaire
- Average service life: 24,000 h
- Average illuminance on the working
plane: 79 lx (measured)
- Illuminance stipulated by the
standards: 150 lx (target)

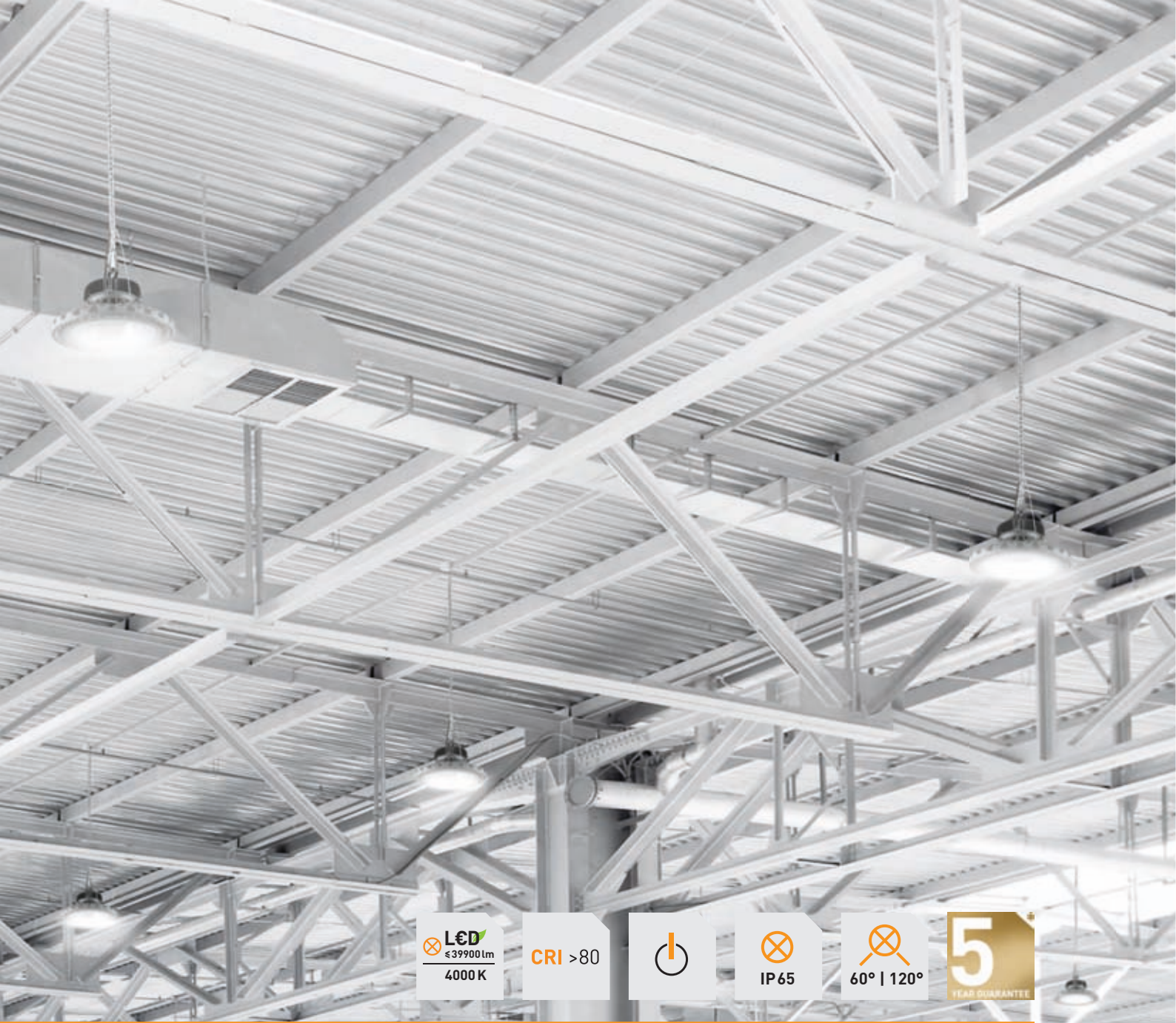


AFTER

- LED high bay luminaire HTS 200
- System consumption:
200 watts/luminaire
- Average service life: 50,000 h
(L70/B20)
- Average illuminance on the
working plane: 164 lx
(conforms to standards)
- Energy saving: approx. 60 %



By replacing outdated existing
luminaires with the HTS 200 high-
bay luminaires from MGL Licht
at the same positions, the user
has achieved an illuminance that
conforms to standards. While illu-
minance has been doubled, energy
costs have actually been halved.



LED
≤39900 lm
4000 K

CRI >80

IP 65

60° | 120°

5
YEAR GUARANTEE

HTS 300

This high bay luminaire with wide-beam light distribution is extremely high-performance. The HTS 300 was developed for high industrial halls, production halls and warehouses, where lower output levels simply cannot achieve the required level of illumination any more. As an addition to the HTS series 100 | 150 | 200, the HTS 300 meets comparable requirements for the quality of the product – be those requirements for service life, ambient temperatures, ENEC approval or guarantee.

Light distribution	wide beam, 120° narrow beam, 60°
Lighting technology	SMD-LED
Light guidance	optical lens
Colour rendition	CRI >80
Materials	aluminium
Surface	grey-black
Mounting	pendant mounting, surface-mounted, incl. 3 m connecting cable
Installation	inrush current, see page 183

HTS 300



HTS 300

Switchable					
Light colour	Diffusor	Beam angle	Power	Luminous flux	Article no.
4000 K	Clear glass	120°	300 W	39200 lm	MGL 3541
4000 K	Lens optic	60°	300 W	39900 lm	MGL 3542

SPECIFICATION
CRI >80
△ 120° | 60°
△ IP 65
☒ Ceiling mounting

LIGHT DISTRIBUTION

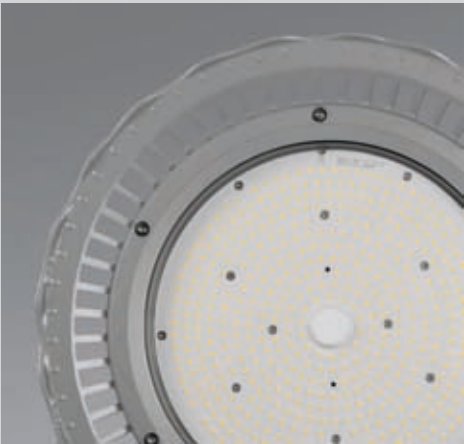
HTS 300
120°
300 W
4000 K
cd/klm
— C0 – C180
— C90 – C270

HTS 300
60°
300 W
4000 K
cd/klm
— C0 – C180
— C90 – C270

★ ACCESSORIES

Article no.
Mounting bracket for HTS 300. +/-45° swivable
MGL 0249

HIGH-QUALITY TECHNOLOGY



CLEAR GLASS
The LEDs of the HTS 300 with 120° beam angle are covered with a clear silicate glass and therefore protected from contact and contamination.



PLASTIC LENS TECHNOLOGY
The plastic lens technology ensures the defined beam angle for the 60° version and also protects the LEDs of the HTS 300.



MOISTURE-PROOF LUMINAIRES

MGL has developed two LED moisture-proof luminaire product families based on the technological options of LED technology combined with state-of-the-art plastic injection moulding technology. These products are amazingly efficient, feature a slim design and offer especially simple, safe and fast installation. The entire package of reliable product quality and installation flexibility creates appealing project solutions, not just for day-to-day business but

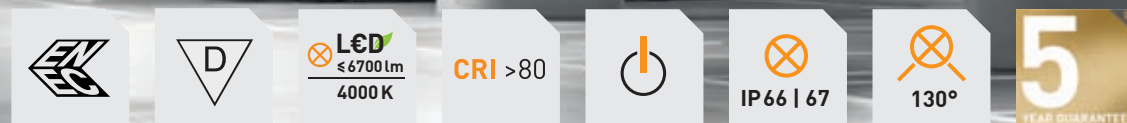
also for a wide range of new installations. ENEC approval confirms the special feature of these two product groups, namely that they meet the requirements for the IP66 and IP67 protection grade, and they do this with the option of having integrated a 3-pole through-wiring. The installation lengths of the MGL moisture-proof luminaires correspond to conventional, market-standard T8 or T5 luminaires, making renovation projects a breeze.

FRT MOISTURE-PROOF LUMINAIRES

The FRT LED moisture-proof luminaires feature a slim T-shaped design. This design means that the indirect lighting component illuminates the room ceiling or walls, counteracting the visual 'cave effect'.

LOMBRI LED MOISTURE-PROOF LUMINAIRES

Much more than a LED moisture-proof luminaire! As slim, tube-shaped LED luminaires with IP66/IP67 protection grade and a diameter of just 41 mm, the tubular LOMBRI luminaires make new lighting solutions possible that never were before. The luminaire can be rotated and precisely aligned in snap-in installation brackets, so the light can be swivelled in the desired direction. The luminaire itself blends in with the room ambiance thanks to its discreet design.

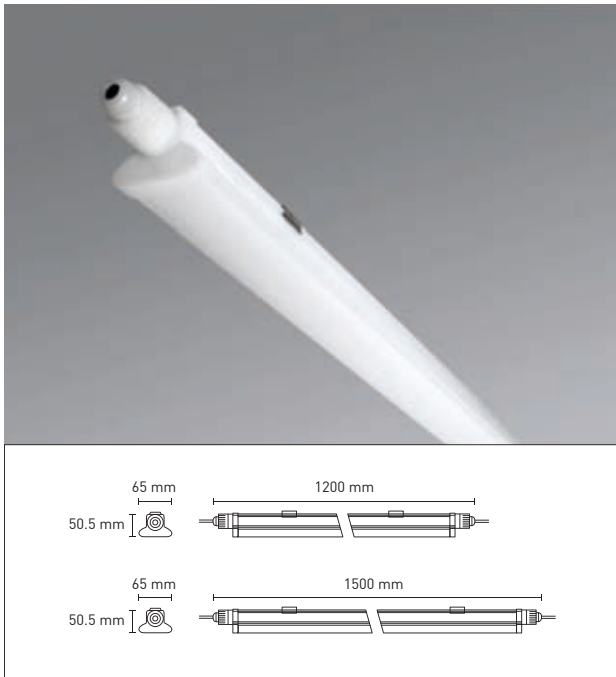


FRT 1200 | 1500

The T-shaped moisture-proof luminaire creates a proportion of indirect light that can be used to illuminate the building ceiling or wall, thanks to the special shape of the diffuser. Often used in less attractive building areas, the FRT counteracts the 'cave effect' that these spaces commonly have. Actual safety due to better lighting and the subjective feeling of safety are objectively improved as a result. In addition to this user benefit, the FRT is also appealing to electricians thanks to its easy installation. State-of-the-art SMD LEDs for a long service life, integrated through-wiring, practical connection space and a selection of mounting elements, from fixed to suspended, make this moisture-proof luminaire an easy choice.

Light distribution	wide beam, 130°
Lighting technology	SMD-LED
Light guidance	diffuser
Colour rendition	CRI >80
Materials	polycarbonate
Surface	white
Mounting	pendant mounting, surface-mounted
Installation	inrush current, see page 183

FRT 1200 | 1500



FRT 1200 | 1500

Switchable, including through-wiring

Light colour	Length	Power	Luminous flux	Article no.
4000 K	1200 mm	30 W	4150 lm	MGL 3004
4000 K	1500 mm	30 W	4150 lm	MGL 3005
4000 K	1500 mm	54 W	6700 lm	MGL 3006

SPECIFICATION	LIGHT DISTRIBUTION
<p>CRI >80</p> <p>130°</p> <p>IP 66 67</p> <p>IK 08</p> <p>Ceiling mounting</p> <p>Wall mounting</p>	<p>FRT 1500 30 W 4000 K</p>

★ ACCESSORIES	Article no.
Swing hook set for chain suspension FRT	MGL 0206
Wire suspension set for FRT, length 2000 mm	MGL 0216

HIGH-QUALITY TECHNOLOGY



IP66/67 cable gland to connection space, no tools needed

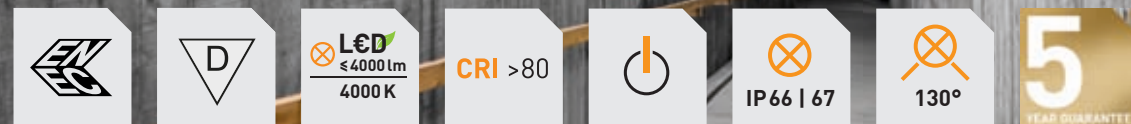


Connection space opened with loop for terminal



Exposed 3-pole terminal, retractable

YouTube Find installation videos on YouTube under the search term 'MGL-LICHT'.

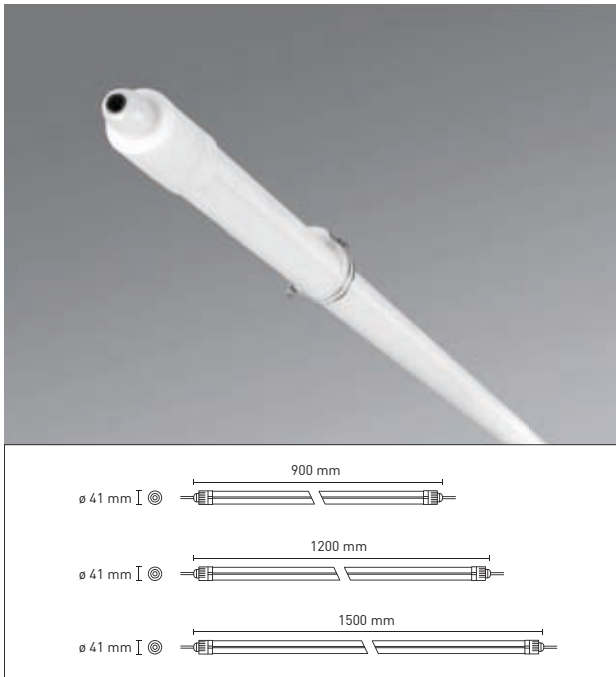


LOM 900 | 1200 | 1500

The LOMbri is more than just a moisture-proof luminaire. While it meets the same product requirements in terms of tightness and durability, LOM can also be used as a lighting element to design a space. Thanks to through-wiring and practical connection space that allows for fast and flexible connection on site, fixed to the ceiling or wall, or even suspended in the building, LOM is a true design feature. The light emitting surface can be rotated and fixed even after installation in the mounting elements. LOM therefore transforms from just a moisture-proof luminaire to a design element with a lighting function.

Light distribution	wide beam, 130°
Lighting technology	SMD-LED
Light guidance	diffuser
Colour rendition	CRI >80
Materials	polycarbonate
Surface	white
Mounting	pendant mounting, surface-mounted
Installation	inrush current, see page 183

LOM 900 | 1200 | 1500



LOM 900 | 1200 | 1500

Switchable, including through-wiring

Light colour	Length	Power	Luminous flux	Article no.
4000 K	900 mm	18 W	2100 lm	MGL 3009
4000 K	1200 mm	18 W	2100 lm	MGL 3010
4000 K	1500 mm	30 W	4000 lm	MGL 3012

SPECIFICATION

- CRI >80
- 130°
- IP 66 | 67
- IK 08
- Ceiling mounting
- Wall mounting

LIGHT DISTRIBUTION

LOM 1200
18 W
4000 K

★ ACCESSORIES

Swing hook set for chain suspension LOM	MGL 0211
Wire suspension set for LOM, length 2000 mm	MGL 0252

MGL 0211

MGL 0252

HIGH-QUALITY TECHNOLOGY



IP66/67 cable gland to connection space, no tools needed. Exposed 3-pole terminal, retractable



Luminaire can be rotated in freely adjustable stainless steel clamp to configure the lighting direction



Steel wire suspension can be used to freely position LOM and create a designer lighting element in the room

YouTube Find installation videos on YouTube under the search term 'MGL-LICHT'.



LIGHTING AROUND THE GROUNDS

MGL LICHT sends its outdoor luminaires for testing in the Schüco Technology Centre in Bielefeld. The products run through different tests here in accordance with standardised test procedures. MGL LICHT tests and documents this way the quality of the outdoor luminaires and how it is affected by moisture, UV radiation and other environmental influences. Years of use are simulated with the luminaires during testing. All MGL outdoor luminaires are designed for durability, underpinned by the 3-year functional guarantee. Luminaires have die-cast aluminium housings and are powder-coated with special AKZO NOBEL paint; the break-proof diffusers are made of UV-stable polycarbonate.

SCHÜCO



WDL 235 128
Wall/Ceiling Luminaire



WL 140 130
Wall Luminaire



WPL 132
Wall/Bollard Luminaire



PLQ 800 | 1500 138
Bollard Luminaire



ORL 140
Orientation Luminaire



SPOT G100 142
Garden Spotlight



SPOT G500 | G1000 144
Garden Spotlight



LED
≤ 660 lm
3000 K

CRI > 90

5 A++

IP 65

3
YEAR GUARANTEE

WDL 235

The WDL 235 wall and ceiling luminaire is extremely versatile. Thanks to the flat design, this luminaire is suitable for indoor as well as outdoor use in entryways, passages, on balconies and patios, and in stairwells and corridors. The light is distributed evenly and glare-free due to the special polycarbonate diffuser, ensuring a pleasant ambiance in the corresponding application areas. The diffuser and powder-coated die-cast aluminium housing are very robust, making the WDL 235 a good choice for public areas as well. In addition to the switchable version, this luminaire can also be controlled via DALI. Thanks to the low energy consumption and guaranteed service life, the WDL 235 is designed for long-term continuous use.

- Light distribution
- Lighting technology
- Light guidance
- Colour rendition
- Materials
- Surface
- Mounting
- diffuse
- SMD-LED
- aluminium reflector
- CRI >80
- aluminium, polycarbonate
- anthracite, white
- surface-mounted

WDL 235



WDL 235

Switchable, 230 V

Light colour	Housing	Power	Luminous flux	Article no.
3000 K	anthracite	8 W	660 lm	MGL 9012
3000 K	white	8 W	660 lm	MGL 9013

WDL 235 DALI

DALI DIM

Light colour	Housing	Power	Luminous flux	Article no.
3000 K	anthracite	8 W	660 lm	MGL 9014
3000 K	white	8 W	660 lm	MGL 9015

PROJECT SOLUTIONS ON DEMAND
Dimming via 1 – 10V, PHASE DIM, PUSH DIM

YouTube Find installation videos on YouTube under the search term 'MGL-LICHT'.

SPECIFICATION

CRI >90

IP 65

IK 06

Wall mounting

Ceiling mounting

LIGHT DISTRIBUTION

WDL235
8 W
3000 K

cd/klm

C0 – C180

C90 – C270

LIGHTING EFFECT

WL 235

★ ACCESSORIES

Article no.

Spare part opal diffuser WDL 235

MGL 0199

MGL 0199



WL 140

This wall luminaire has a unique geometry, where cylinder and cube come together. The cube takes on the installation functions, holds the integrated driver and serves as the connection space for the wiring. The light of the LED hidden in the cylinder is cast down and up by the diffuser. This results in a lighting effect that gives the wall a special look.

- Light distribution** wide beam, 120°
- Lighting technology** SMD-LED
- Light guidance** direct/indirect
- Colour rendition** CRI >80
- Materials** aluminium, polycarbonate
- Surface** anthracite, white
- Mounting** surface-mounted



WL 140



WL 140

Switchable, 230 V

Light colour	Housing	Power	Luminous flux	Article no.
3000 K	white	8 W	620 lm	MGL 9018
3000 K	anthracite	8 W	620 lm	MGL 9019

YouTube Find installation videos on YouTube under the search term 'MGL-LICHT'.

SPECIFICATION <ul style="list-style-type: none">CRI >80△ 120°△ IP 65⊗ Wall mounting	LIGHT DISTRIBUTION <p>WL 140 8 W 3000 K</p> <p>cd/klm — C0-C180 — C90-C270</p>	LIGHTING EFFECT <p>WL 140</p>
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WPL WALL / BOLLARD LUMINAIRE

'WPL' represents the dual functionality of these luminaires, which are available as both wall luminaires and bollard luminaires when used with a bollard tube. When mounted on the building, the light from the WPL gives the exterior an attractive appearance, whilst also providing security for the home. When mounted on the bollard tube, which is available in two heights, the WPL illuminates paths and other areas. Its design can be matched to the wall luminaires (rectangular or round). The efficiency of LEDs ensures sufficient lighting while keeping energy costs low.

Light distribution	wide beam
Lighting technology	COB-LED
Light guidance	direct/indirect
Colour rendition	CRI >90
Materials	aluminium
Surface	anthracite, white
Mounting	surface-mounted, bollard

WPL WALL / BOLLARD LUMINAIRE



WPL ROUND

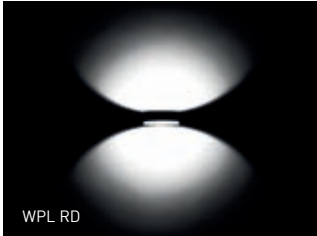
Switchable

Light colour	Housing	Power	Luminous flux	Article no.
3000 K	anthracite	11 W	570 lm	MGL 9008
3000 K	white	11 W	570 lm	MGL 9009

SPECIFICATION

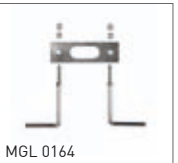
- CRI >90
- △ indirekt, wide beam
- △ IP 65
- ⊗ Wall mounting
- ⊗ Floor mounting with bollard (see accessories)

LIGHTING EFFECT

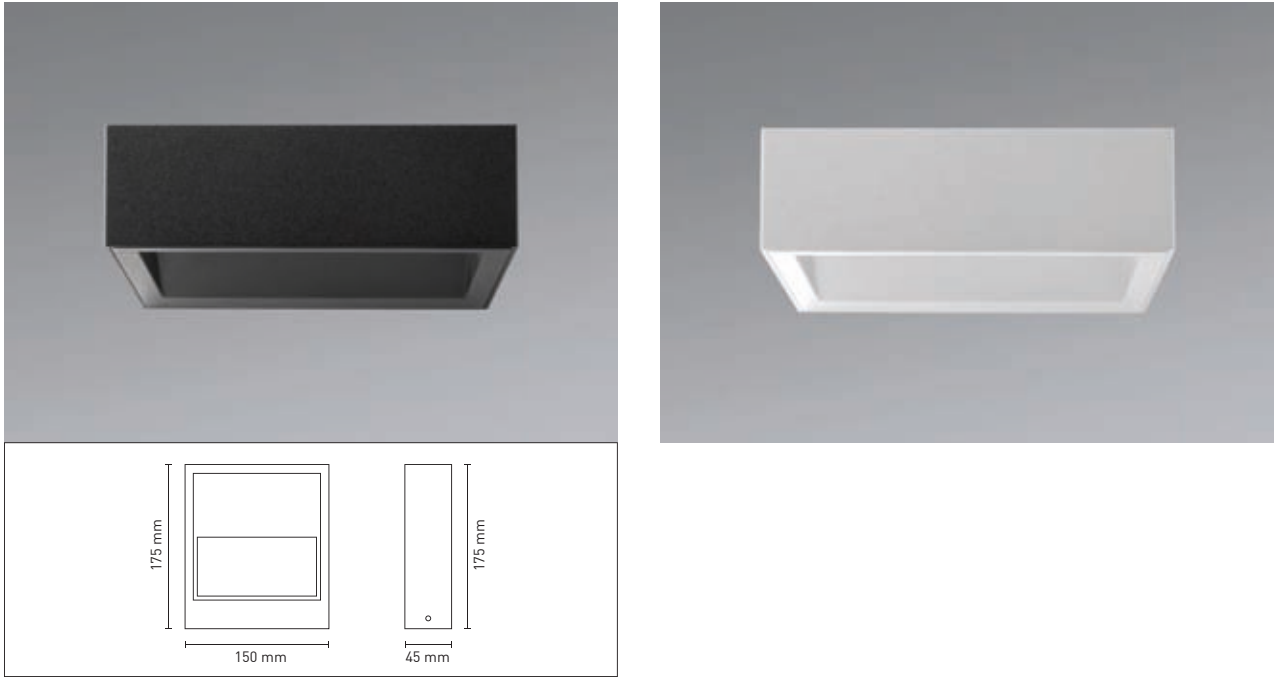


★ ACCESSORIES

	Article no.
Tube for wall/bollard luminaire anthracite L = 175 mm	MGL 0160
Tube for wall/bollard luminaire white L = 175 mm	MGL 0161
Tube for wall/bollard luminaire anthracite L = 475 mm	MGL 0162
Tube for wall/bollard luminaire white L = 475 mm	MGL 0163
Concrete/ground anchor for bollard tube	MGL 0164



WPL WALL / BOLLARD LUMINAIRE



WPL SQUARE

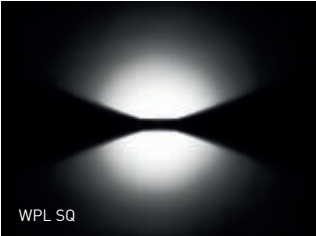
⚡ Switchable, 230 V

Light colour	Housing	Power	Luminous flux	Article no.
3000 K	anthracite	11 W	590 lm	MGL 9010
3000 K	white	11 W	590 lm	MGL 9011

SPECIFICATION

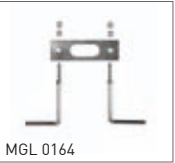
- CRI >90
- △ indirekt, wide beam
- △ IP 65
- ⊗ Wall mounting
- ⊗ Floor mounting with bollard (see accessories)

LIGHTING EFFECT



★ ACCESSORIES

	Article no.
Tube for wall/bollard luminaire anthracite L = 175 mm	MGL 0160
Tube for wall/bollard luminaire white L = 175 mm	MGL 0161
Tube for wall/bollard luminaire anthracite L = 475 mm	MGL 0162
Tube for wall/bollard luminaire white L = 475 mm	MGL 0163
Concrete/ground anchor for bollard tube	MGL 0164

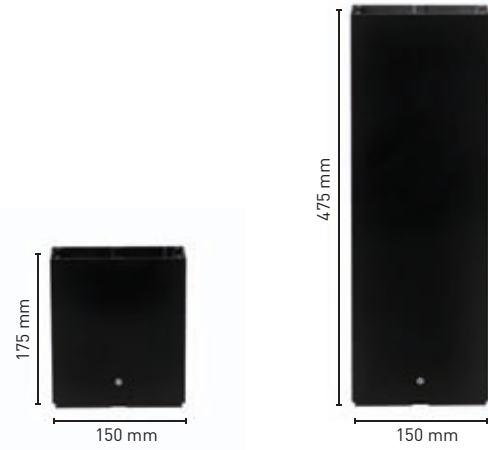


WPL MODULAR SYSTEM

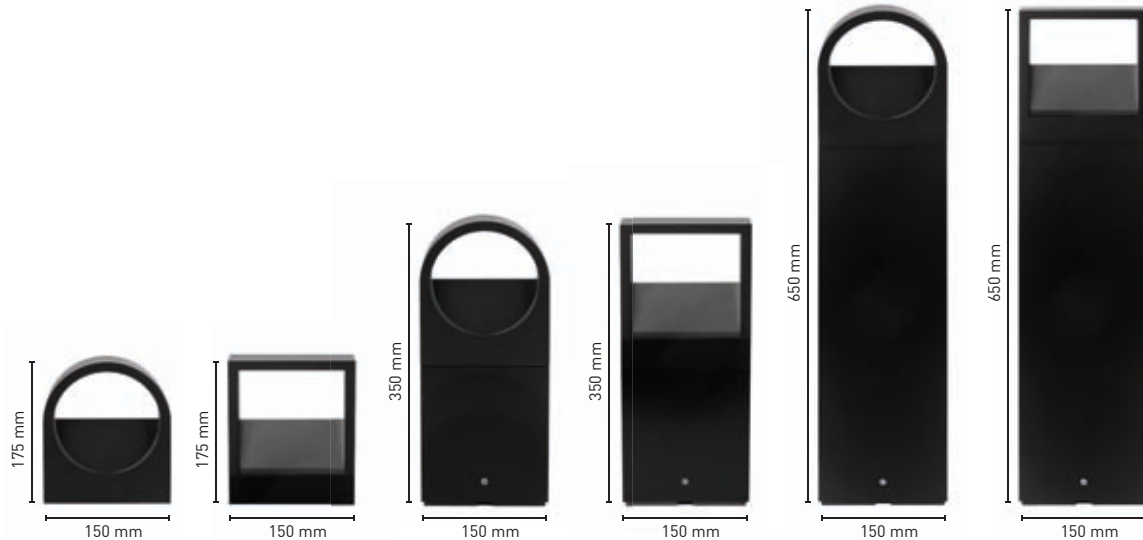
WALL LUMINAIRE

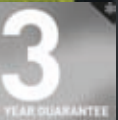


BOLLARD TUBE



BOLLARD LUMINAIRE



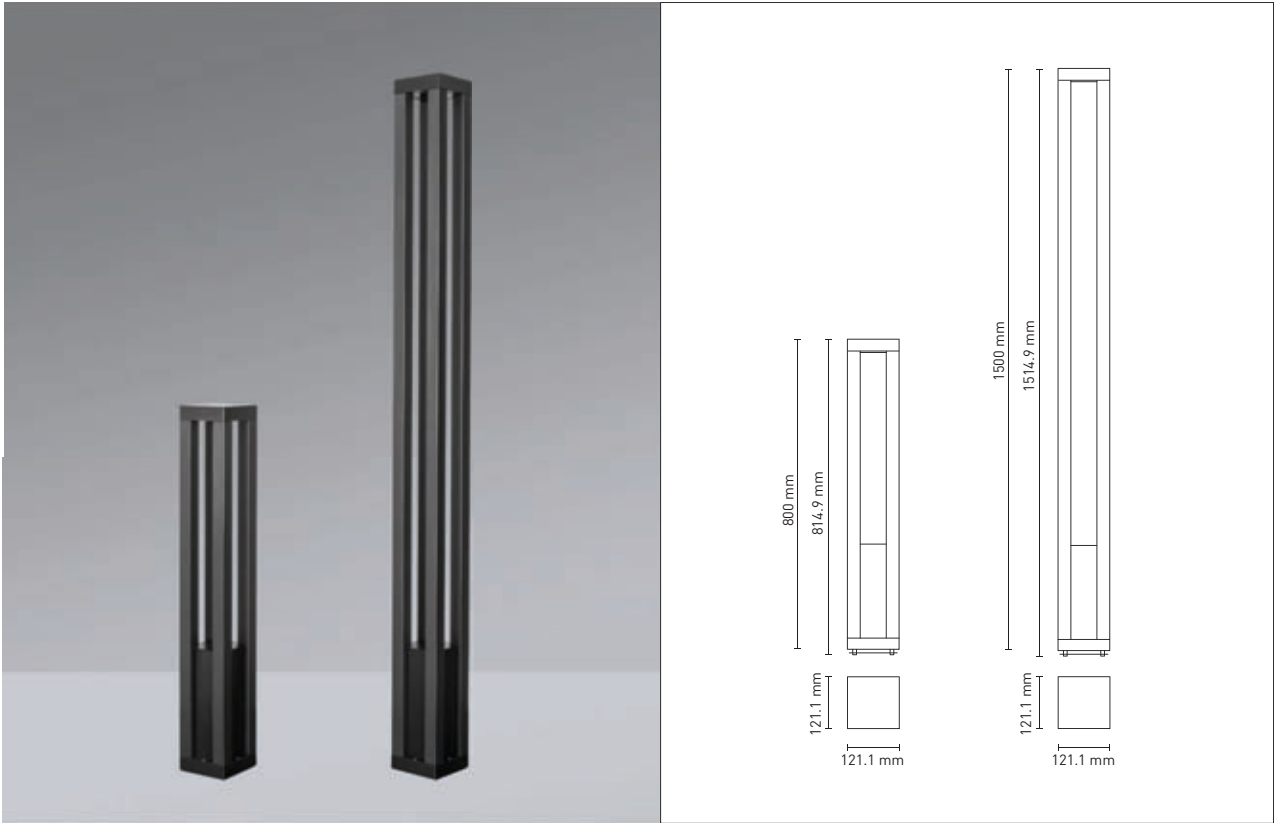


PLQ 800 | 1500

The square bollard luminaire is a free-standing sculpture during the day that transforms into an illuminating beacon in the darkness. The unique interplay of light and shadow around it reinforces its effect. The two available installation heights of the PLQ allow for more design freedom, tailored to function and the surrounding environment. Operating costs are kept to a minimum thanks to LED technology and the low luminous flux required at night. Like a lighthouse on the coast, the PLQ is a point of orientation on the property.

Light distribution	diffuse
Lighting technology	COB-LED
Light guidance	aluminium reflector
Colour rendition	CRI >90
Materials	aluminium
Surface	anthracite
Mounting	floor mounted, bollard

PLQ 800 | 1500



PLQ 800

Switchable, 230 V

Light colour	Housing	Power	Luminous flux	Article no.
3000 K	anthracite	20 W	490 lm	MGL 9016

PLQ 1500

Switchable, 230 V

Light colour	Housing	Power	Luminous flux	Article no.
3000 K	anthracite	20 W	490 lm	MGL 9017

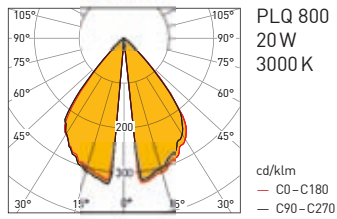


Find installation videos on YouTube under the search term 'MGL-LICHT'.

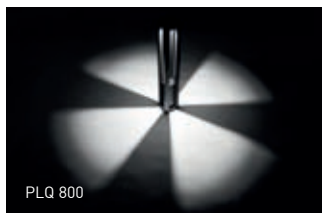
SPECIFICATION

- CRI >90
- △ 50 – 60° rotationally symmetric
- △ IP 65
- ⊗ Floor mounting

LIGHT DISTRIBUTION



LIGHTING EFFECT



ACCESSORIES

Concrete/ground anchor for PLQ 800/PLQ 1500	Article no.
	MGL 0247



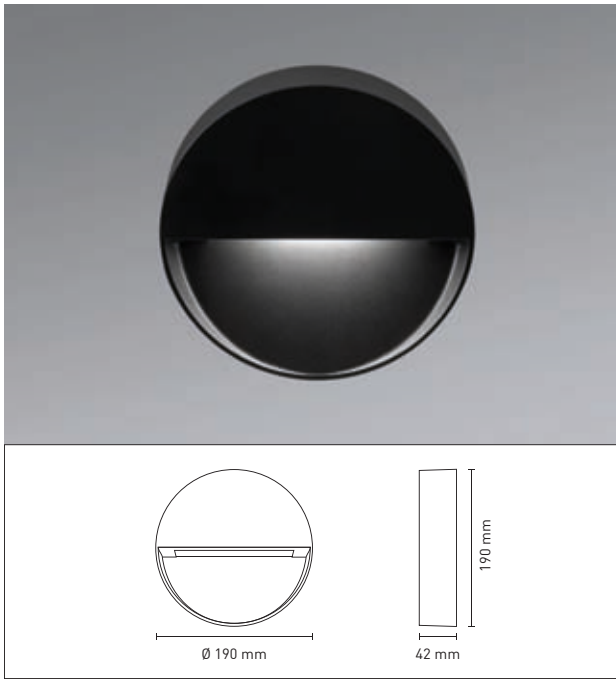


ORL ORIENTATION LUMINAIRE

These luminaires offer more than just a guiding light to find your way around. Mounted at the usual installation height for a wall luminaire, the LED used creates a striking atmosphere in the night-time environment. Originally mounted at ground level on walls and masonry, ORL ensures that pathways are well lit and safe to travel in the dark. The durability of the LED and its energy efficiency ensure continuous operation.

Light distribution	wide beam
Lighting technology	COB-LED
Light guidance	aluminium reflector
Colour rendition	CRI >90
Materials	aluminium
Surface	anthracite, white
Mounting	surface-mounted

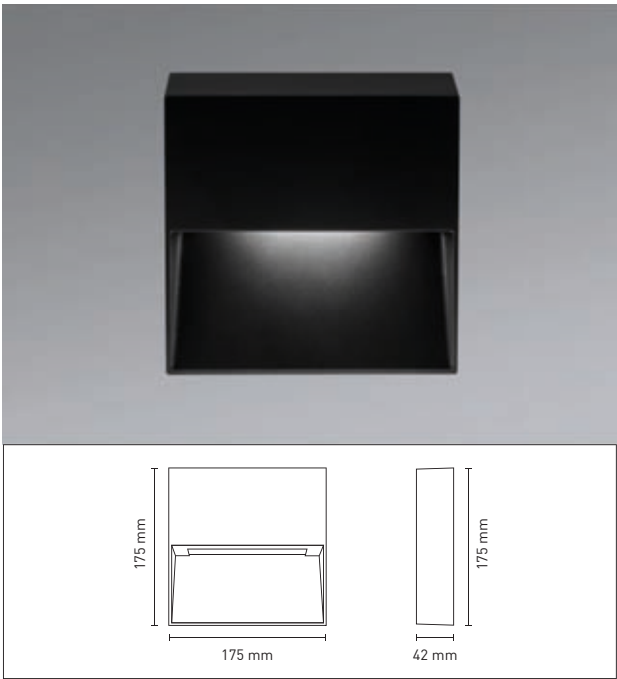
ORL ORIENTATION LUMINAIRE



ORL ROUND

Switchable, 230 V

Light colour	Housing	Power	Luminous flux	Article no.
3000 K	anthracite	10 W	160 lm	MGL 9004
3000 K	white	10 W	160 lm	MGL 9005



ORL SQUARE

Switchable, 230 V

Light colour	Housing	Power	Luminous flux	Article no.
3000 K	anthracite	10 W	170 lm	MGL 9006
3000 K	white	10 W	170 lm	MGL 9007



SPECIFICATION	LIGHTING EFFECT	
CRI >90		
△ wide beam		
△ IP 65		
⊗ Wall mounting		



SPOT G100 | G500 | G1000

Three sizes, three output levels, one design: that's the Spot G100, G500 and G1000. The right spotlight is selected based on the desired scene and the distance to the object in focus. In addition to the ready-to-connect 'soloists' with 5 m rubber supply cable and Schuko plug, MGL also offers the SPOT G100 as a 24 V version. Up to five of these spotlights, also with a 5 m supply cable, can be powered through the offered driver.

Light distribution	semi wide beam, 24°/30° beam angle
Lighting technology	COB-LED
Light guidance	aluminium reflector
Colour rendition	CRI >90
Materials	aluminium
Surface	anthracite
Mounting	surface-mounted, earth spike

LED
≤1140 lm
3000 K

CRI >90

IP65

30°

3
YEAR GUARANTEE

SPOT G100



G100 DC 24 V

Light colour	Power	Luminous flux	Article no.
3000 K	3.5 W	120 lm	MGL 9003

Including 2-wire supply cable 5 m

G100 230 V

Switchable, 230 V			
Light colour	Power	Luminous flux	Article no.
3000 K	4 W	120 lm	MGL 9002

Including supply cable 5 m plus Schuko plug and earth spike

SPECIFICATION	LIGHT DISTRIBUTION		
CRI >90 △ 30° rotatable 355°, swivable +90° -45° △ IP 66 ⊗ Floor mounting ⊗ Wall mounting	Distance	Light cone	Lx E _m
	0.5 m	0.26 m ø	1008 Lx
	1 m	0.52 m ø	236 Lx
	1.5 m	0.78 m ø	103 Lx
	2 m	1.04 m ø	57 Lx
	2.5 m	1.30 m ø	37 Lx
		3000 K 3.5 W 4 W, 130 lm	

RECOMMENDED DRIVERS				
	Voltage	Power	Article no.	Article no.
switchable	DC 24 V	20 W	MGL 0153	dimmable via Dimming module MGL 0229

ACCESSORIES		Article no.
Spare part earth spike		MGL 0173
Dimming module DC12 – 24 V max. 55 W, 1 – 10 V/PUSH DIM		MGL 0229

MGL 0173

MGL 0229

SPOT G500 | G1000



G500

Switchable, 230 V

Light colour	Power	Luminous flux	Article no.
3000 K	11 W	670 lm	MGL 9000

Including supply cable 5 m plus Schuko plug and earth spike



G1000

Switchable, 230 V

Light colour	Power	Luminous flux	Article no.
3000 K	15 W	1140 lm	MGL 9001

Including supply cable 5 m plus Schuko plug and earth spike

SPECIFICATION

CRI >90

24° G 500

20° G 1000

rotatable 355°

swivable +90° | -45°

IP66

Floor mounting

LIGHT DISTRIBUTION

Distance	Light cone	Lx E _m
1 m	0.37 m ø	1423 Lx
1.5 m	0.56 m ø	616 Lx
2 m	0.74 m ø	346 Lx
2.5 m	0.93 m ø	220 Lx
3 m	1.11 m ø	153 Lx

G500

3000K

11W, 670lm

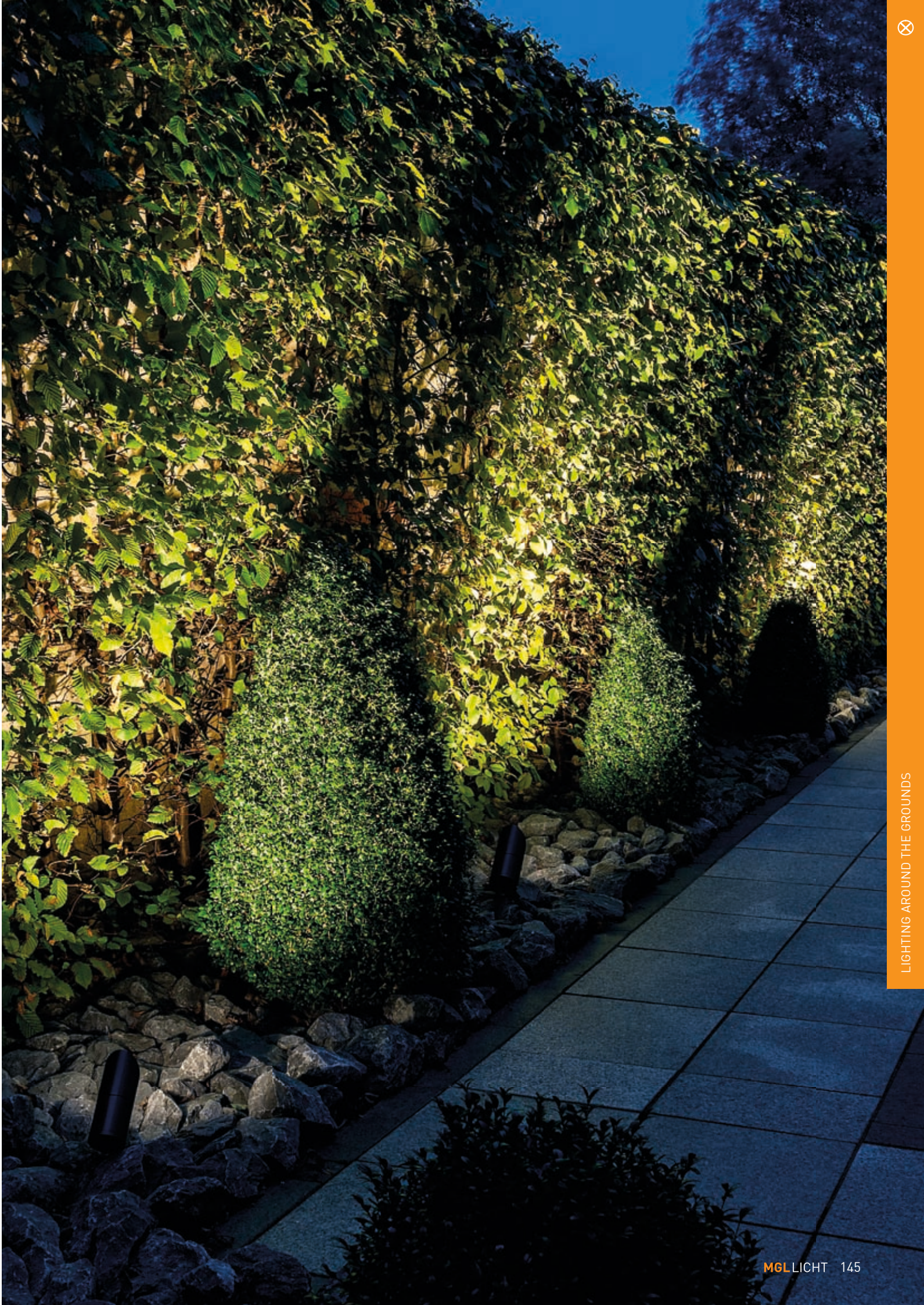
Distance	Light cone	Lx E _m
1 m	0.43 m ø	2494 Lx
1.5 m	0.64 m ø	1089 Lx
2 m	0.86 m ø	603 Lx
2.5 m	1.07 m ø	386 Lx
3 m	1.29 m ø	267 Lx

G1000

3000K

15W, 1140lm

* ACCESSORIES	Article no.
Mounting plate	MGL 0114
Spare part earth spike	MGL 0173





DRIVERS

The drivers of the modular MGL system offer maximum flexibility in combination with MGL light heads. Two different strain relieved plug-in systems for downlights or panels offer absolute safety during installation. Thanks to the DIP switch technology offered for certain drivers, the operating current and thus the light output can be adjusted for the corresponding application even during installation. Convenient dimming is possible with all established standards on the market (leading and trailing-edge phase dimming / DALI / 1–10 V / PUSH DIM).

All drivers of the modular MGL system are developed and manufactured in Europe.

MGL is CASAMBI-ready. Find out more on the MGL homepage: www.mgl-lighting.com



Matrix 148



Data Sheets 158



Special Solutions 176



Dimming 177





























Circuit Breakers 182





Wiring Diagrams 184

DRIVER MATRIX

MDL IP		MGL 0152	MGL 0033	MGL 0039	MGL 0041	MGL 0063	MGL 0166	MGL 0027	MGL 0064	MGL 0107	MGL 0108	MGL 0109			MGL 0023	MGL 0035	MGL 0036	MGL 0025	MGL 0046	MGL 0037	
		250mA 9W	350mA 19W	350mA 8W	350mA 15W	700mA 11W	100 – 380 mA 20W	350mA 17W	700mA 32W	350mA 10W	500mA 10W	350mA 18W			350mA 15W	350mA 15W	700mA 32W	350mA 15W	350mA 15W	700mA 32W	
	Switchable														Switchable						
	DALI														DALI						
	1 – 10V														1 – 10V						
	PHASE DIM														PHASE DIM						
	PUSH DIM														PUSH DIM						
	MGL 1026			1 – 6			1 – 3			3 – 10*			2 – 5		MGL 1026			3 – 10*			3 – 10*
	MGL 1068			1 – 6			1 – 3			3 – 10*			2 – 5		MGL 1068			3 – 10*			3 – 10*
	MGL 1087			1 – 6			1 – 3			3 – 10*			2 – 5		MGL 1087			3 – 10*			3 – 10*
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	MGL 1138	2	1 – 3	1	1 – 2			1 – 3	1 – 2			1	2 – 3		MGL 1138	1 – 2	1 – 2			1 – 2	1 – 2
	MGL 1139	2	1 – 3	1	1 – 2			1 – 3	1 – 2			1	2 – 3		MGL 1139	1 – 2	1 – 2			1 – 2	1 – 2
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	MGL 1098	2	1 – 3	1	1 – 2			1 – 3	1 – 2			1	2 – 3		MGL 1098	1 – 2	1 – 2			1 – 2	1 – 2
	MGL 1099	2	1 – 3	1	1 – 2			1 – 3	1 – 2			1	2 – 3		MGL 1099	1 – 2	1 – 2			1 – 2	1 – 2
	MGL 1100	2	1 – 3	1	1 – 2			1 – 3	1 – 2			1	2 – 3		MGL 1100	1 – 2	1 – 2			1 – 2	1 – 2
	MGL 1101	2	1 – 3	1	1 – 2			1 – 3	1 – 2			1	2 – 3		MGL 1101	1 – 2	1 – 2			1 – 2	1 – 2
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	MGL 1128							1 – 2			1				MGL 1128	1 – 2	1 – 2			1 – 2	1 – 2
	MGL 1149			1 – 6			1 – 3			3 – 10*			2 – 5		MGL 1149			3 – 10*			3 – 10*
	MGL 1150			1 – 6			1 – 3			3 – 10*			2 – 5		MGL 1150			3 – 10*			3 – 10*

LEGEND

 Recommended drivers, number of luminaires

 Optional possibility, e.g. to reduce the luminous flux

* See Technical Information on page 176 (Drivers Special Solutions)

DL125 | 150















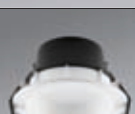
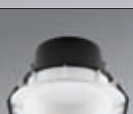








MDS

LEGEND

150 MGL LICHT

DRIVER MATRIX















DLR













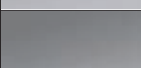
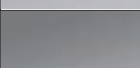
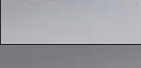
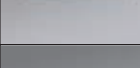


DLR		MGL 0152	MGL 0039	MGL 0033	MGL 0045	MGL 0041	MGL 0111	MGL 0166	MGL 0028	MGL 0064	MGL 0108	MGL 0110		MGL 0023	MGL 0024	MGL 0035	MGL 0042	MGL 0036	MGL 0025	MGL 0026	MGL 0046	MGL 0047	MGL 0037		
		250mA 9W	350mA 8W	350mA 19W	500mA 22W	350mA 15W	250 – 700 mA 32 W	100 – 380 mA 20W	500mA 20W	700mA 32W	500mA 10W	500mA 20W		350mA 15W	500mA 20W	350mA 15W	500mA 24W	700mA 32W	350mA 15W	500mA 20W	350mA 15W	500mA 24W	700mA 32W		
	Switchable													Switchable											
	DALI													DALI											
	1 – 10V													1 – 10V											
	PHASE DIM													PHASE DIM											
	PUSH DIM													PUSH DIM											
	MGL 1027			1	1	1	1		1	1		1		MGL 1027		1		1	1		1		1	1	
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	MGL 1146			1	1	1			1			1		MGL 1146	1	1	1	1		1	1	1	1		
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	MGL 1148			1	1	1			1			1		MGL 1148	1	1	1	1		1	1	1	1		

LEGEND

- Recommended drivers, number of luminaires
- Optional possibility, e.g. to reduce the luminous flux

DRIVER MATRIX

DLQ		MGL 0152	MGL 0039	MGL 0033	MGL 0045	MGL 0041	MGL 0111	MGL 0166	MGL 0027	MGL 0028	MGL 0064	MGL 0107	MGL 0108		MGL 0109	MGL 0110	MGL 0023	MGL 0024	MGL 0035	MGL 0042	MGL 0036	MGL 0025	MGL 0026	MGL 0046	MGL 0047	MGL 0037		
		250mA 9W	350mA 8W	350mA 19W	500mA 22W	350mA 15W	250 – 700 mA 32W	100 – 380 mA 20W	350mA 17W	500mA 20W	700mA 32W	350mA 10W	500mA 10W		350mA 18W	500mA 20W	350mA 15W	500mA 20W	350mA 15W	500mA 24W	700mA 32W	350mA 15W	500mA 20W	350mA 15W	500mA 24W	700mA 32W		
	Switchable														Switchable													
	DALI														DALI													
	1 – 10V														1 – 10V													
	PHASE DIM														PHASE DIM													
	PUSH DIM														PUSH DIM													
	MGL 1069	1	1	1 – 2	1 – 2	1 – 2		1 – 2	1 – 2	1 – 2		1	1		MGL 1069	1 – 2	1 – 2	1 – 2	1 – 2	1 – 2	1 – 2		1 – 2	1 – 2	1 – 2	1 – 2		
	MGL 1070	1	1	1 – 2	1 – 2	1 – 2		1 – 2	1 – 2	1 – 2		1	1		MGL 1070	1 – 2	1 – 2	1 – 2	1 – 2	1 – 2	1 – 2		1 – 2	1 – 2	1 – 2	1 – 2		
	MGL 1071	1	1	1 – 2	1 – 2	1 – 2		1 – 2	1 – 2	1 – 2		1	1		MGL 1071	1 – 2	1 – 2	1 – 2	1 – 2	1 – 2	1 – 2		1 – 2	1 – 2	1 – 2	1 – 2		
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	MGL 1073				1	1	1	1			1	1				MGL 1073		1		1		1	1		1		1	1
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	MGL 1076				1	1	1	1			1	1				MGL 1076		1		1		1	1		1		1	1












DLF DLFA		MGL 0131	MGL 0033	MGL 0045	MGL 0111	MGL 0028	MGL 0064	MGL 0110	MGL 0024	MGL 0042	MGL 0036			MGL 0026	MGL 0047	MGL 0037
		250 – 700mA 13–30W	350mA 19W	500mA 22W	250 – 700mA 32W	500mA 20W	700mA 32W	500mA 20W	500mA 20W	500mA 24W	700mA 32W			500mA 20W	500mA 24W	700mA 32W
	Switchable												Switchable			
	DALI												DALI			
	1 – 10V												1 – 10V			
	PHASE DIM												PHASE DIM			
	PUSH DIM												PUSH DIM			
	MGL 1058	1	1	1	1	1	1	1	1	1	1		MGL 1058	1	1	1
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	MGL 1060	1	1	1	1	1	1	1	1	1	1		MGL 1060	1	1	1
	MGL 1061	1	1	1	1	1	1	1	1	1	1		MGL 1061	1	1	1
	MGL 1081	1	1	1				1	1	1	1		MGL 1081	1	1	1
	MGL 1082	1	1	1				1	1	1	1		MGL 1082	1	1	1
	MGL 1083	1	1	1				1	1	1	1		MGL 1083	1	1	1
	MGL 1084	1	1	1				1	1	1	1		MGL 1084	1	1	1

LEGEND

Recommended drivers, number of luminaires

Optional possibility, e.g. to reduce the luminous flux

DRIVER MATRIX

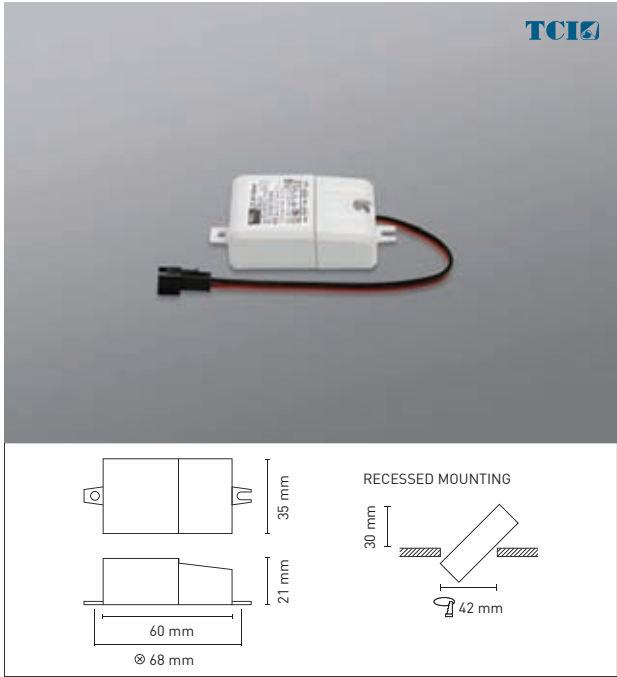
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		750mA 32W	700mA 34W	1050mA 50W	1600mA 64W	1050mA 40W	750mA 40W	750mA 38W	700mA 32W	1050mA 50W	1050mA 40W	1050mA 38W
	Switchable											
	DALI											
	1-10V											
	PHASE DIM											
	PUSH DIM											
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	MGL2215		1	1		1			1	1	1	1

LEGEND

Recommended drivers, number of luminaires

Optional possibility, e.g. to reduce the luminous flux

DRIVERS DOWNLIGHTS



MGL 0039 | 0152 SWITCHABLE

Operating current	Power	Article no.
250 mA	9 W	MGL 0152
350 mA	8 W	MGL 0039

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz	
Input voltage (DC)	176 – 264 V	
Forward voltage	24 V	
Ambient temperature	tc 75 °C	ta -25 – +45 °C
Service life	50000 h	
Terminal primary side	max. 1.5 mm ²	
Terminal secondary side	Cable with plug-connector	
Weight	75 g	
Max. Ripple	3 %	

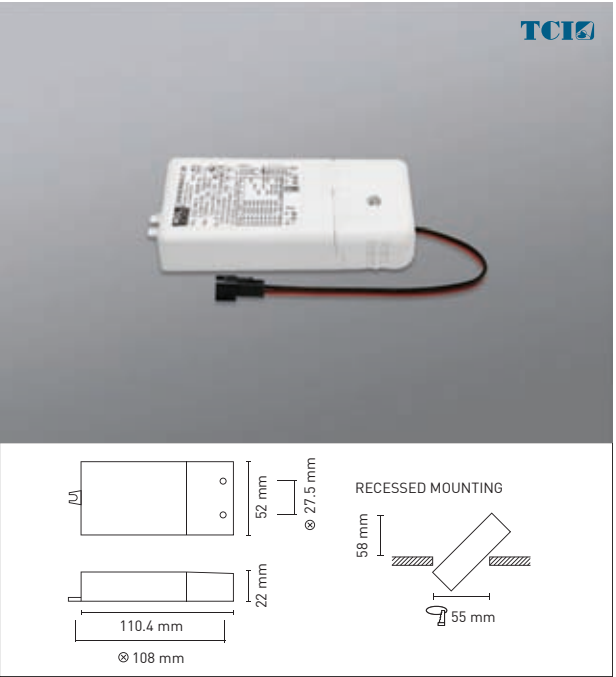
SPECIFICATION

- Internal protection against
- Voltage peaks
 - Short circuit
 - Overheating



COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, VDE 0710-T14



MGL 0033 | 0045 SWITCHABLE

Multi power driver with fixed DIP switches

Operating current	Power	Article no.
350 mA	19 W	MGL 0033
500 mA	20 W	MGL 0045

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz	
Input voltage (DC)	170 – 280 V	
Forward voltage	40 V	
Ambient temperature	tc 80 °C	ta -25 – +50 °C
Service life	50000 h	
Terminal primary side	max. 1.5 mm ²	
Terminal secondary side	Cable with plug-connector	
Weight	108 g	
Max. Ripple	3 %	

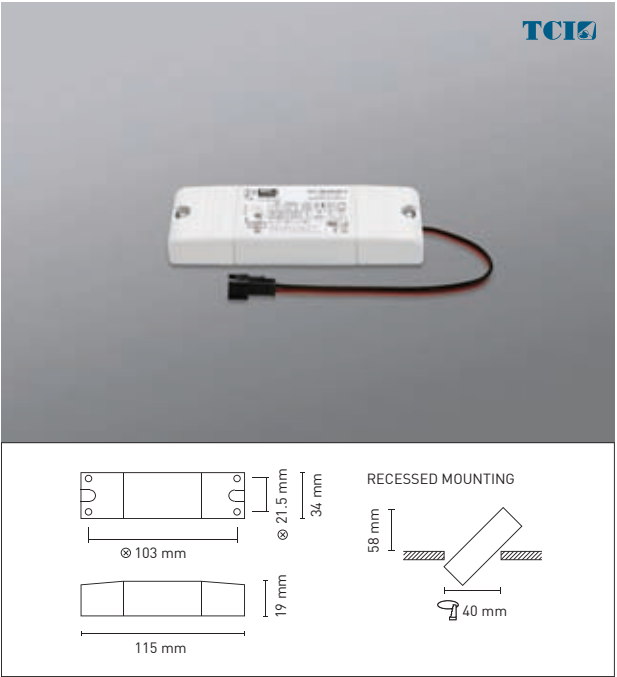
SPECIFICATION

- Internal protection against
- Voltage peaks
 - Short circuit
 - Overheating



COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, VDE 0710-T14



MGL 0041 | 0040 SWITCHABLE

Operating current	Power	Article no.
350 mA	15 W	MGL 0041
500 mA	12 W	MGL 0040

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz	
Input voltage (DC)	176 – 264 V	
Forward voltage	24 V	
Ambient temperature	tc 75/80 °C	ta -25 – +45/50 °C
Service life	50000 h	
Terminal primary side	max. 1.5 mm ²	
Terminal secondary side	Cable with plug-connector	
Weight	60 g	
Max. Ripple	3 %	

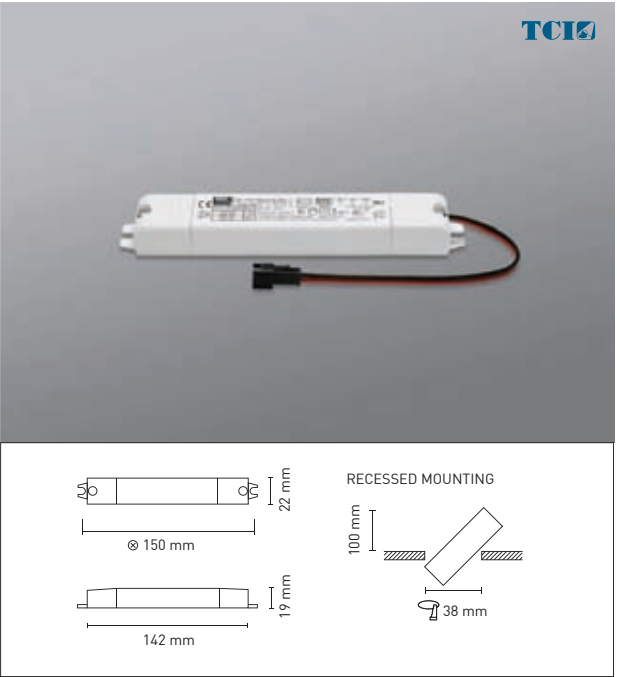
SPECIFICATION

- Internal protection against
- Voltage peaks
 - Short circuit
 - Overheating



COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, VDE 0710-T14



MGL 0063 SWITCHABLE

Operating current	Power	Article no.
700 mA	11 W	MGL 0063

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz	
Input voltage (DC)	176 – 264 V	
Forward voltage	max. 16 V	
Ambient temperature	tc 80 °C	ta -25 – +50 °C
Service life	50000 h	
Terminal primary side	max. 2.5 mm ²	
Terminal secondary side	Cable with plug-connector	
Weight	55 g	
Max. Ripple	3 %	

SPECIFICATION

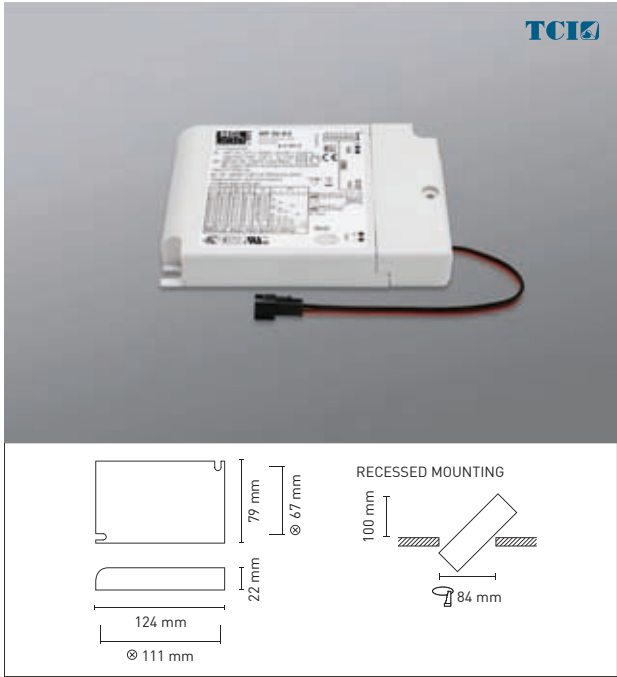
- Internal protection against
- Voltage peaks
 - Short circuit
 - Overheating



COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, VDE 0710-T14

DRIVERS DOWNLIGHTS



MGL 0098 SWITCHABLE

Multi power driver with fixed DIP switches

Operating current	Power	Article no.
900 mA	50 W	MGL 0098

TECHNICAL DATA

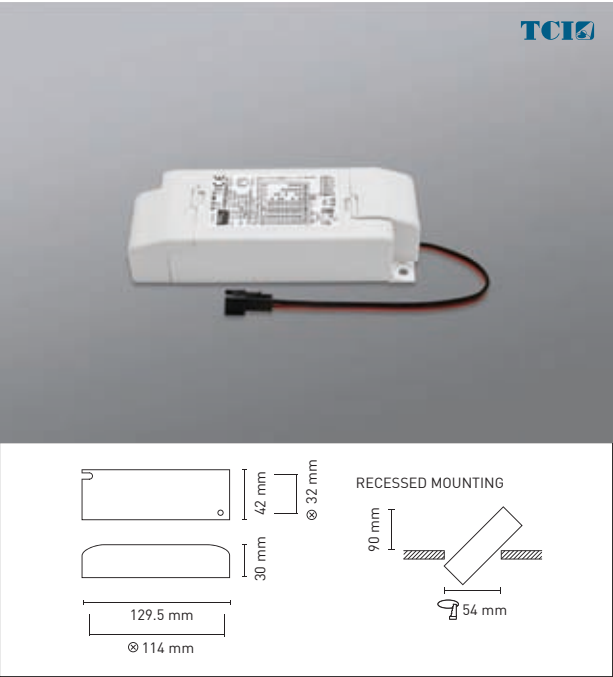
Input voltage (AC)	220 – 240 V · 50/60 Hz
Input voltage (DC)	176 – 264 V
Forward voltage	48 V
Ambient temperature	tc 85 °C ta -25 – +45 °C
Service life	50000 h
Terminal primary side	max. 1.5 mm ²
Terminal secondary side	Cable with plug-connector
Weight	150 g
Max. Ripple	3 %

SPECIFICATION

Internal protection against	05	IP20	SELV	APPLE PROTECT
· Voltage peaks				
· Short circuit				
· Overheating				

COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547



MGL 0111 SWITCHABLE

Multi power driver with open DIP switches for the pre-settable operation between 250 and 700mA

Operating current	Power	Article no.
250 – 700 mA	12 – 34 W	MGL 0111

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz
Input voltage (DC)	176 – 264 V
Forward voltage	50 V
Ambient temperature	tc 75 °C ta -25 – +45 °C
Service life	50000 h
Terminal primary side	max. 1.5 mm ²
Terminal secondary side	Cable with plug-connector
Weight	105 g
Max. Ripple	3 %

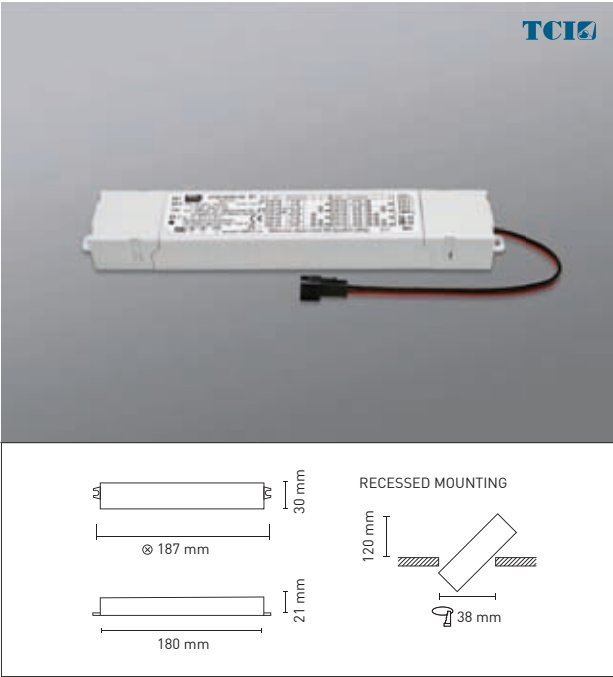
SPECIFICATION

Internal protection against	05	IP20	SELV	APPLE PROTECT
· Voltage peaks				
· Short circuit				
· Overheating				

DIP switch freely adjustable.

COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547



MGL 0131 SWITCHABLE

Multi power driver with open DIP switches for the pre-settable operation between 250 and 700mA

Operating current	Power	Article no.
250 – 700 mA	13 – 30 W	MGL 0131

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz
Input voltage (DC)	176 – 264 V
Forward voltage	54 V
Ambient temperature	tc 85 °C ta -25 – +50 °C
Service life	50000 h
Terminal primary side	max. 1.5 mm ²
Terminal secondary side	Cable with plug-connector
Weight	120 g
Max. Ripple	3 %

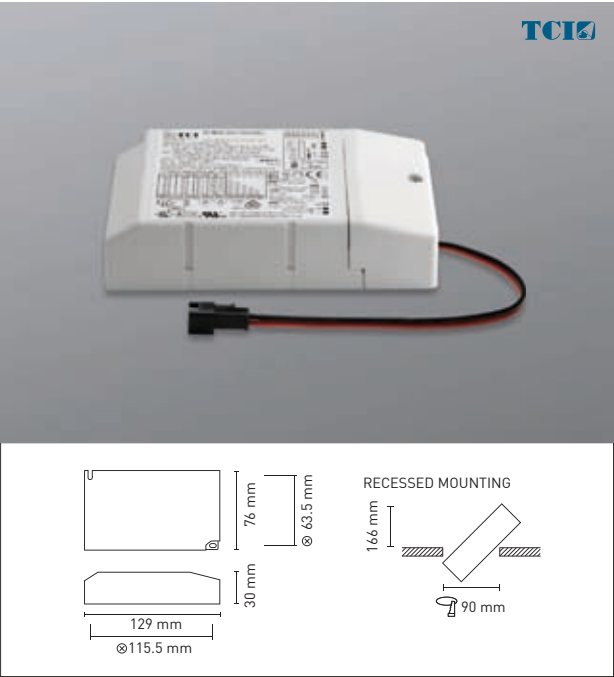
SPECIFICATION

Internal protection against	05	IP20	SELV	APPLE PROTECT
· Voltage peaks				
· Short circuit				
· Overheating				

DIP switch freely adjustable.

COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, EN 62384, VDE 0710-T14



MGL 0156 SWITCHABLE

Multi power driver with open DIP switches for the pre-settable operation between 1050 and 1400 mA

Operating current	Power	Article no.
1400 mA	55 W	MGL 0156

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz
Input voltage (DC)	170 – 280 V
Forward voltage	39 V
Ambient temperature	tc 85 °C ta -25 – +50 °C
Service life	50000 h
Terminal primary side	max. 2.5 mm ²
Terminal secondary side	Cable with plug-connector
Weight	250 g
Max. Ripple	3 %

SPECIFICATION

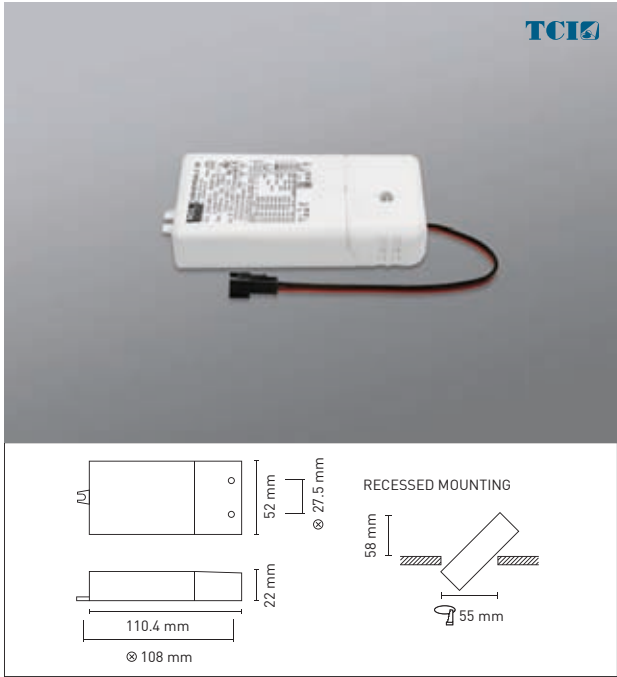
Internal protection against	05	IP20	SELV	APPLE PROTECT
· Voltage peaks				
· Short circuit				
· Overheating				

DIP switch freely adjustable.

COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, EN 62384, VDE 0710-T14

DRIVERS DOWNLIGHTS



MGL 0166 SWITCHABLE

Multi power driver with open DIP switches for the pre-settable operation between 100 and 380 mA

Operating current	Power	Article no.
100 – 380 mA	5.4 – 20 W	MGL 0166

TECHNICAL DATA

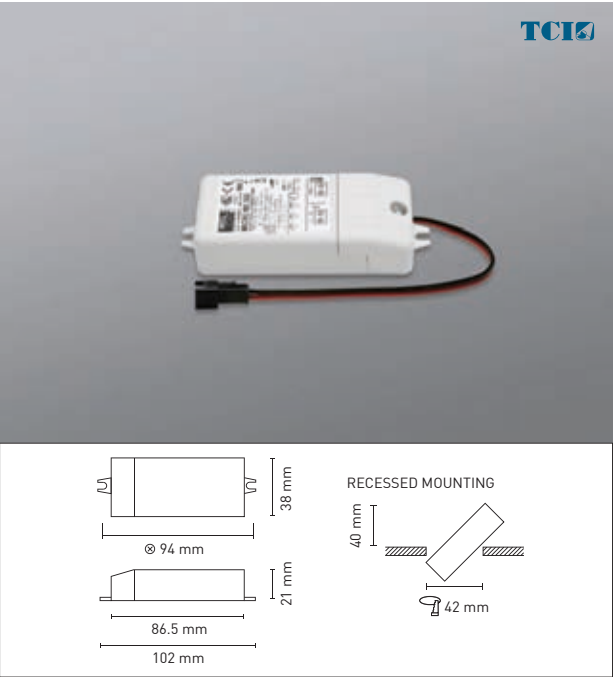
Input voltage (AC)	220 – 240 V · 50/60 Hz
Input voltage (DC)	170 – 280 V
Forward voltage	max. 59 V
Ambient temperature	tc 75 °C ta -25 – +50 °C
Service life	50000 h
Terminal primary side	max. 1.5 mm ²
Terminal secondary side	Cable with plug-connector
Weight	108 g
Max. Ripple	3 %

SPECIFICATION

Internal protection against	UL05	IP20	SELV	RoHS FREE
· Voltage peaks				
· Short circuit				
· Overheating	constant CURRENT	KEMA	110	M/M

COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 60335-1, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, EN 62384, VDE 0710-T14



MGL 0107 | 0108 DIMMABLE

Dimmable: Leading edge trailing edge dimmer

MGL recommends

Operating current	Power	Article no.
350 mA	3 – 10 W	MGL 0107
500 mA	3 – 10 W	MGL 0108

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz
Input voltage (DC)	176 – 264 V
Forward voltage	28 V
Ambient temperature	tc 70 °C ta -25 – +45 °C
Service life	50000 h
Terminal primary side	max. 2.5 mm ²
Terminal secondary side	Cable with plug-connector
Weight	50 g
Max. Ripple	< 20 %

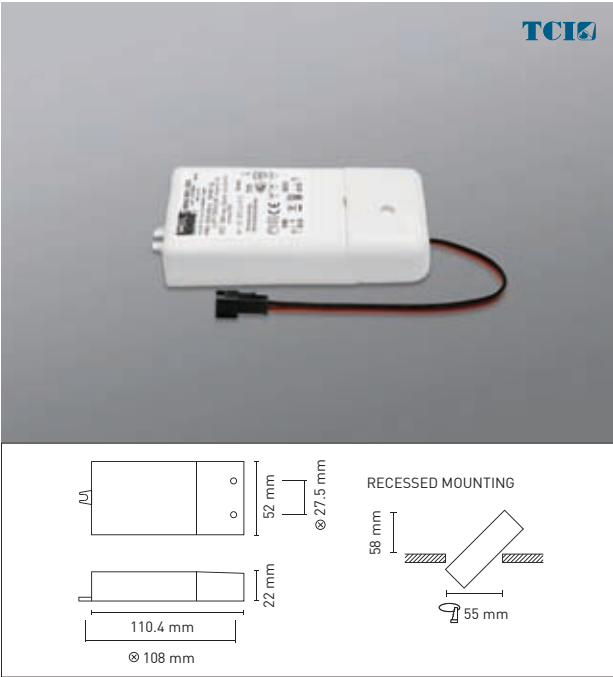
SPECIFICATION

Internal protection against	UL05	IP20	SELV	RoHS FREE
· Voltage peaks				
· Short circuit				
· Overheating	constant CURRENT	KEMA	110	M/M

Detailed wiring diagram on page 188

COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, EN 62384, VDE 0710-T14



MGL 0109 | 0110 DIMMABLE

Dimmable: Leading edge trailing edge dimmer

MGL recommends

Operating current	Power	Article no.
350 mA	8 – 18 W	MGL 0109
500 mA	8 – 20 W	MGL 0110

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz
Input voltage (DC)	176 – 264 V
Forward voltage	40 V
Ambient temperature	tc 70/75 °C ta -25 – +45 °C
Service life	50000 h
Terminal primary side	max. 1.5 mm ²
Terminal secondary side	Cable with plug-connector
Weight	108 g
Max. Ripple	< 20 %

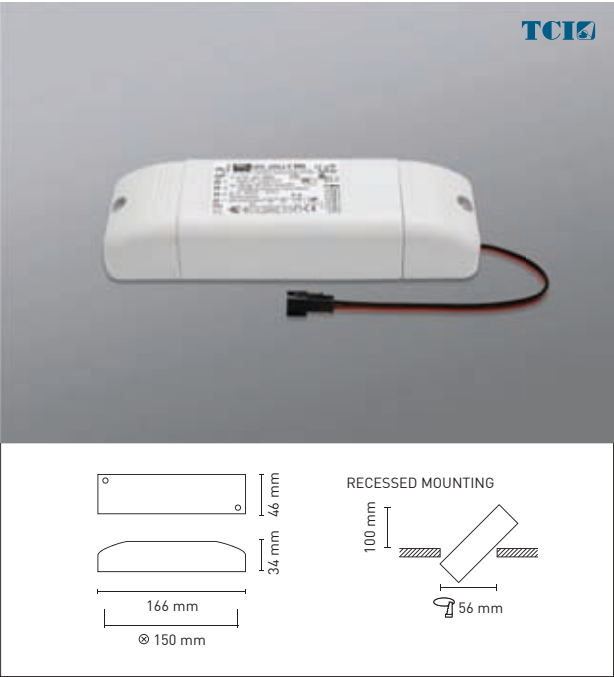
SPECIFICATION

Internal protection against	UL05	IP20	SELV	RoHS FREE
· Voltage peaks				
· Short circuit				
· Overheating	constant CURRENT	KEMA	110	M/M

Detailed wiring diagram on page 188

COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, EN 62384, VDE 0710-T14



MGL 0027 | 0028 | 0064 DIMMABLE

Multi power driver with fixed DIP switches;
Dimmable: Leading edge trailing edge dimmer or PUSH DIM
Synchronisation lines for PUSH DIM, see page 177.

MGL recommends

Operating current	Power	Article no.
350 mA	17 W	MGL 0027
500 mA	24 W	MGL 0028
700 mA	32 W	MGL 0064

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz
Input voltage (DC)	176 – 264 V (no PUSH DIM)
Forward voltage	max. 47 V
Ambient temperature	tc 75 °C ta -25 – +45/50 °C
Service life	50000 h
Terminal primary side	max. 1.5 mm ²
Terminal secondary side	Cable with plug-connector
Weight	185 g
Max. Ripple	3 %

SPECIFICATION

Internal protection against	UL05	IP20	SELV	RoHS FREE
· Voltage peaks				
· Short circuit				
· Overheating	constant CURRENT	KEMA	110	M/M

Detailed wiring diagram on page 188

COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, EN 62384, VDE 0710-T14

DRIVERS DOWNLIGHTS

RECESSED MOUNTING

103 mm
Ø 93.5 mm

67 mm
Ø 57.5 mm

21 mm

100 mm

72 mm

MGL 0037 | 0046 | 0047 DIMMABLE

Multi power driver with fixed DIP switches
Dimmable: 1 – 10V or PUSH DIM
Synchronisation lines for PUSH DIM, see page 182.

Operating current	Power	Article no.
350 mA	15 W	MGL 0046
500 mA	24 W	MGL 0047
700 mA	32 W	MGL 0037

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz	
Input voltage (DC)	176 – 264 V (no PUSH DIM)	
Forward voltage	36 V	
Ambient temperature	tc 75 °C	ta -25 – +50 °C
Service life	50000 h	
Terminal primary side	max. 1.5 mm ²	
Terminal secondary side	Cable with plug-connector	
Weight	120 g	
Max. Ripple	3 %	

SPECIFICATION

Internal protection against

- Voltage peaks
- Short circuit
- Overheating

Detailed wiring diagram on page 187

COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, EN 62384, VDE 0710-T14

RECESSED MOUNTING

110.4 mm
Ø 108 mm

52 mm
Ø 27.5 mm

22 mm

58 mm

55 mm

MGL 0025 | 0026 DIMMABLE

Multi power driver with fixed DIP switches
Dimmable: 1 – 10V

Operating current	Power	Article no.
350 mA	15 W	MGL 0025
500 mA	20 W	MGL 0026

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz	
Input voltage (DC)	176 – 264 V (no PUSH DIM)	
Forward voltage	40 V	
Ambient temperature	tc 80 °C	ta -25 – +50 °C
Service life	50000 h	
Terminal primary side	max. 1.5 mm ²	
Terminal secondary side	Cable with plug-connector	
Weight	108 g	
Max. Ripple	3 %	

SPECIFICATION

Internal protection against

- Voltage peaks
- Short circuit
- Overheating

Detailed wiring diagram on page 186

COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, EN 62384, VDE 0710-T14

RECESSED MOUNTING

103 mm
Ø 93.5 mm

67 mm
Ø 57.5 mm

21 mm

100 mm

72 mm

MGL 0035 | 0036 | 0042 DIMMABLE

Multi power driver with fixed DIP switches
Dimmable: DALI

Operating current	Power	Article no.
350 mA	15 W	MGL 0035
500 mA	24 W	MGL 0042
700 mA	32 W	MGL 0036

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz	
Input voltage (DC)	176 – 264 V	
Forward voltage	46 V	
Ambient temperature	tc 75 °C	ta -25 – +50 °C
Service life	50000 h	
Terminal primary side	max. 1.5 mm ²	
Terminal secondary side	Cable with plug-connector	
Weight	120 g	
Max. Ripple	3 %	

SPECIFICATION

Internal protection against

- Voltage peaks
- Short circuit
- Overheating

Detailed wiring diagram on page 186

COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, EN 62384, VDE 0710-T14

SYNCHRONISATION LINES FOR PUSH DIM

FOR DRIVERS
MGL 0027 | 0028 | 0064
MGL 0037 | 0046 | 0047

The drivers listed above should be connected using synchronisation lines. The driver connected to the PUSH DIM contact becomes the master in this setup and controls all the other drivers connected via the synchronisation lines.

Length	Article no.	
500 mm	MGL 0065	 MGL 0134
1500 mm	MGL 0134	
4000 mm	MGL 0066	

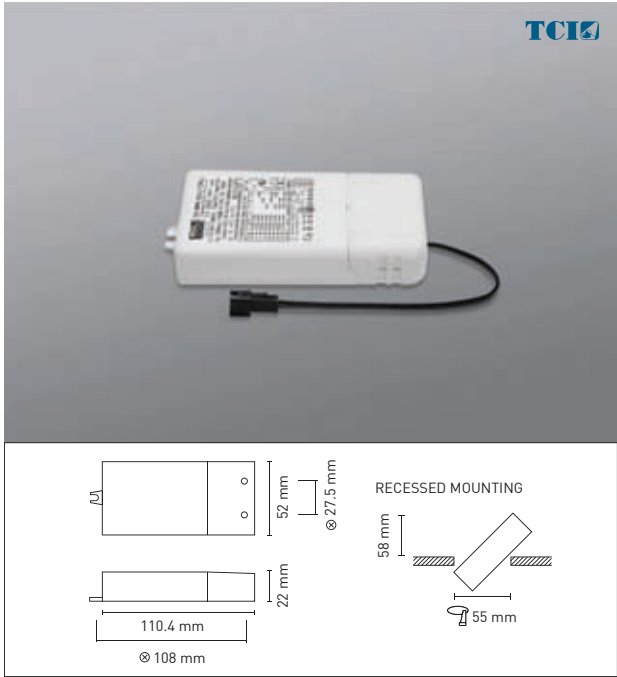
HIGH-QUALITY TECHNOLOGY

The driver is the component of an LED luminaire that determines how long its service life will be. MGL Licht relies primarily on its partnership with premium Italian manufacturer

TCI here. For over 30 years, TCI has stood for continuous development and pioneering electronic systems. The high quality standard and production processes have been certified under ISO 9001 since 1995, and are certified today under ISO 14001. European approvals such as ENEC or VDE verify the safety and reliability of TCI drivers. As an OEM supplier, TCI is an internationally recognised partner of the lighting industry. TCI executes all of its processes, from development in test labs to production and storage, at its home base in northern Italy. In addition to ensuring technical quality, this means that MGL drivers are available at all times.

www.tcisaronno.com

DRIVERS DOWNLIGHTS



MGL 0023 | 0024 DIMMABLE

Multi power driver with fixed DIP switches
Dimmable: DALI

Operating current	Power	Article no.
350 mA	15 W	MGL 0023
500 mA	20 W	MGL 0024

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz	
Input voltage (DC)	176 – 264 V	
Forward voltage	40 V	
Ambient temperature	tc 75 °C	ta -25 – +45 °C
Service life	50000 h	
Terminal primary side	max. 2.5 mm ²	
Terminal secondary side	Cable with plug-connector	
Weight	108 g	
Max. Ripple	3 %	

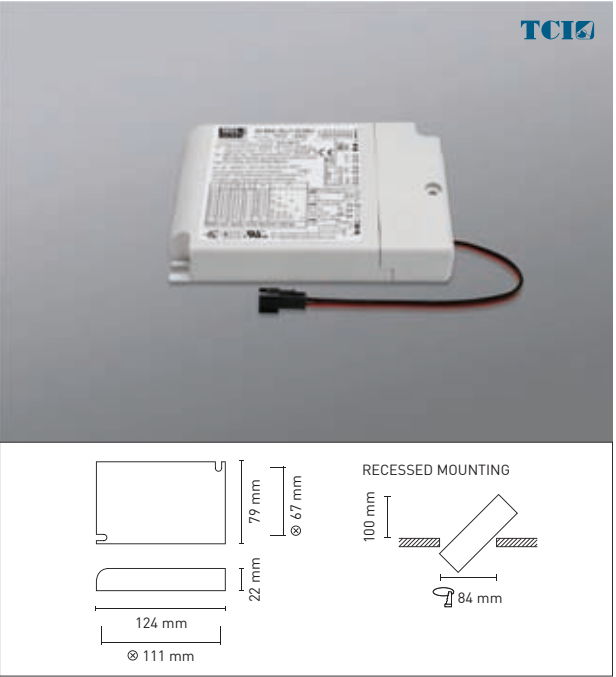
SPECIFICATION

Internal protection against	05	IP20	SELV	APPLE PROTECT
· Voltage peaks				
· Short circuit				
· Overheating	constant CURRENT	KEMA KEUR	KEMA EMC	110 M M

Detailed wiring diagram on page 166

COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, EN 62384, VDE 0710-T14



MGL 0099 DIMMABLE

Multi power driver with fixed DIP switches
Dimmable: DALI, 1 – 10V or PUSH DIM

Operating current	Power	Article no.
900 mA	50 W	MGL 0099

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz	
Input voltage (DC)	176 – 264 V (no PUSH DIM)	
Forward voltage	55 V	
Ambient temperature	tc 85 °C	ta -25 – +45 °C
Service life	50000 h	
Terminal primary side	max. 1.5 mm ²	
Terminal secondary side	Cable with plug-connector	
Weight	150 g	
Max. Ripple	3 %	

SPECIFICATION

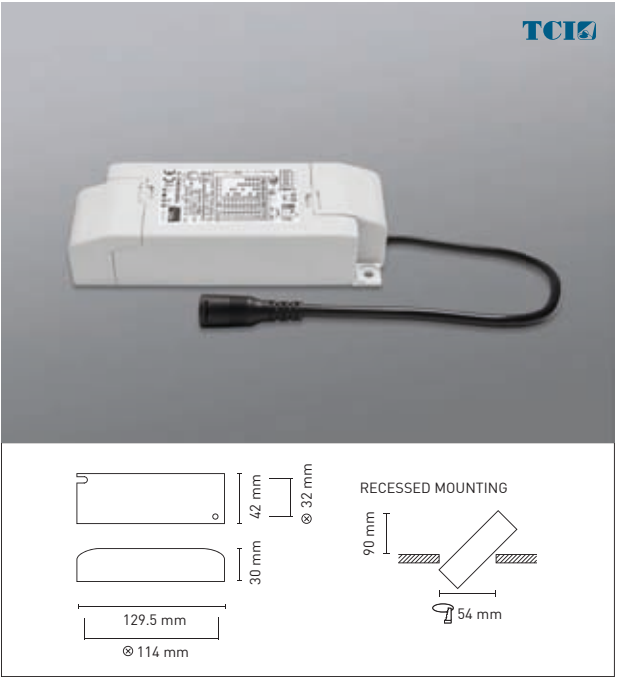
Internal protection against	05	IP20	SELV	APPLE PROTECT
· Voltage peaks				
· Short circuit				
· Overheating	constant CURRENT	KEMA KEUR	KEMA EMC	110 M M

Detailed wiring diagram on page 184

COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, EN 62384

DRIVERS LED PANELS



MGL 0115 SWITCHABLE

Multi power driver with open DIP switches for the pre-settable operation between 250 and 700mA

Operating current	Power	Article no.
700 mA	34 W	MGL 0115

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz	
Input voltage (DC)	176 – 264 V	
Forward voltage	48 V	
Ambient temperature	tc 75 °C	ta -25 – +45 °C
Service life	50000 h	
Terminal primary side	max. 1.5 mm ²	
Terminal secondary side	Cable with plug-connector	
Weight	105 g	
Max. Ripple	3 %	

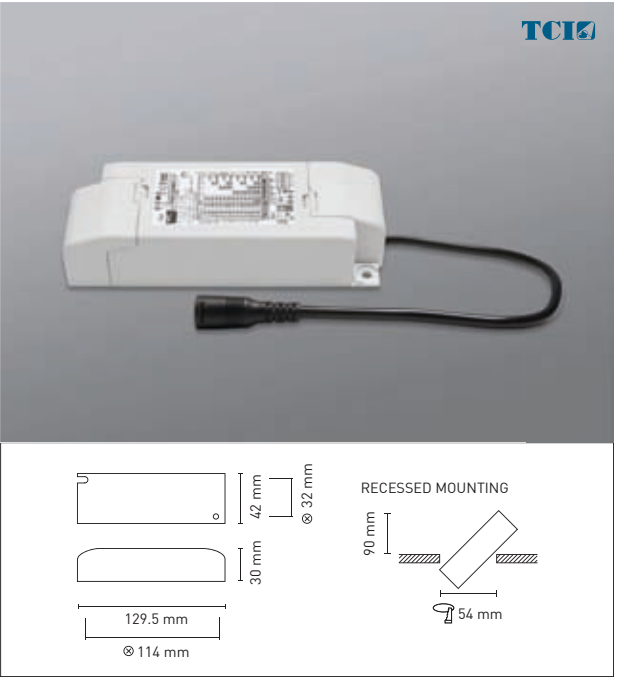
SPECIFICATION

Internal protection against	05	IP20	SELV	APPLE PROTECT
· Voltage peaks				
· Short circuit				
· Overheating	constant CURRENT	KEMA KEUR	100 M M	

DIP switch freely adjustable.

COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, VDE 0710-T14



MGL 0112 SWITCHABLE

Multi power driver with open DIP switches for the pre-settable operation between 300 and 1050 mA.

Operating current	Power	Article no.
300 – 1050 mA	42 W	MGL 0112

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz	
Input voltage (DC)	176 – 264 V	
Forward voltage	40 V	
Ambient temperature	tc 75 °C	ta -25 – +45 °C
Service life	50000 h	
Terminal primary side	max. 1.5 mm ²	
Terminal secondary side	Cable with plug-connector	
Weight	105 g	
Max. Ripple	3 %	

SPECIFICATION

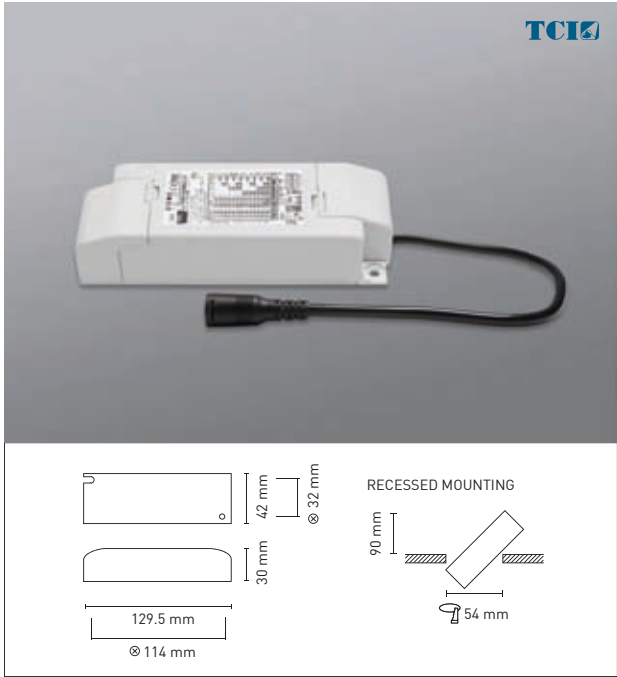
Internal protection against	05	IP20	SELV	APPLE PROTECT
· Voltage peaks				
· Short circuit				
· Overheating	constant CURRENT	KEMA KEUR	110 M M	

DIP switch freely adjustable.

COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, VDE 0710-T14

DRIVERS LED PANELS



MGL 0113 SWITCHABLE

Operating current	Power	Article no.
750 mA	33 W	MGL 0113

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz
Input voltage (DC)	176 – 264 V
Forward voltage	44 V
Ambient temperature	tc 75°C ta -25 – +45°C
Service life	50000 h
Terminal primary side	max. 1.5 mm ²
Terminal secondary side	Cable with plug-connector
Weight	105 g
Max. Ripple	3 %

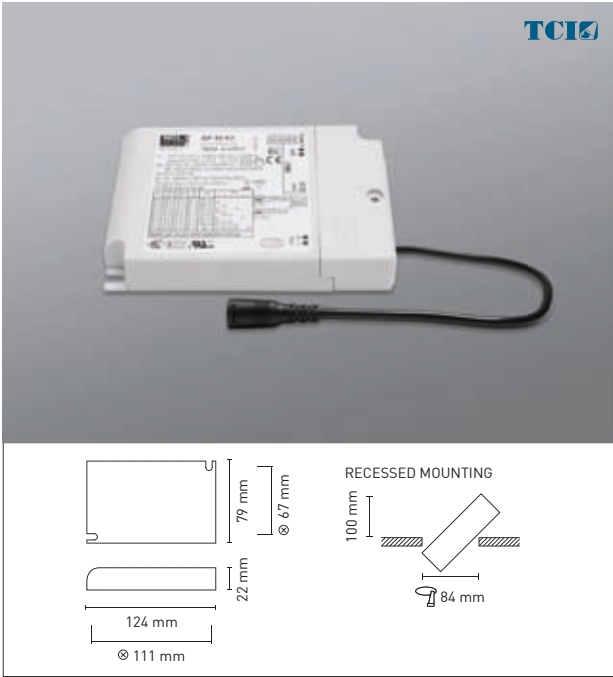
SPECIFICATION

- Internal protection against
- Voltage peaks
 - Short circuit
 - Overheating



COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, VDE 0710-T14



MGL 0010 SWITCHABLE

Multi power driver with open DIP switches for the pre-settable operation between 350 and 1050 mA.

Operating current	Power	Article no.
300 – 1050 mA	50 W	MGL 0010

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz
Input voltage (DC)	176 – 264 V
Forward voltage	max. 66 V
Ambient temperature	tc 85°C ta -25 – +45°C
Service life	50000 h
Terminal primary side	max. 1.5 mm ²
Terminal secondary side	Cable with plug-connector
Weight	150 g
Max. Ripple	3 %

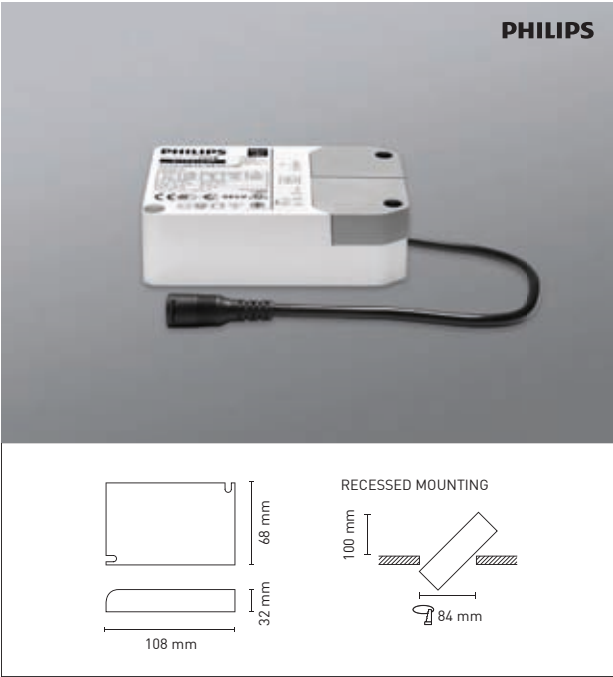
SPECIFICATION

- Internal protection against
- Voltage peaks
 - Short circuit
 - Overheating



COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 60598-2-22, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61347-2-13, EN 61547, EN 62384, UL 1310, VDE 0710-T14



MGL 0165 SWITCHABLE

Driver can be switched from 1500 to 1600 mA by changing the „-“ terminal on the secondary side

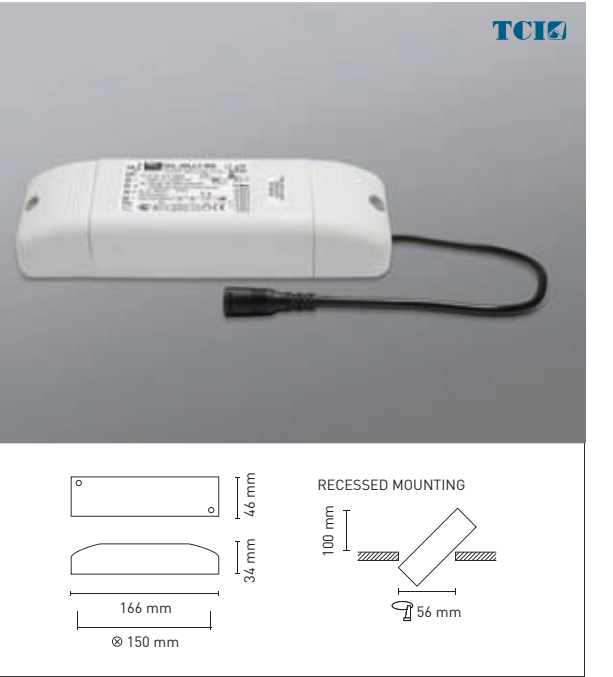
Operating current	Power	Article no.
1600/1500 mA	64 W	MGL 0165

TECHNICAL DATA

Input voltage (AC)	202 – 254 V · 50/60 Hz
Input voltage (DC)	nein
Forward voltage	max. 60 V
Ambient temperature	tc 80°C ta 0 – +50°C
Service life	50000 h
Terminal primary side	max. 1.5 mm ²
Terminal secondary side	Cable with plug-connector
Weight	276 g
Max. Ripple	3 %

SPECIFICATION

- Internal protection against
- Voltage peaks
 - Short circuit
 - Overheating



MGL 0117 DIMMABLE

Multi power driver with fixed DIP switches
Dimmable: Leading edge trailing edge dimmer or PUSH DIM

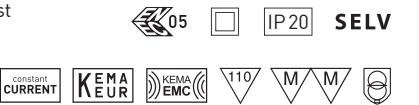
Operating current	Power	Article no.
700 mA	32 W	MGL 0117

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz
Input voltage (DC)	176 – 264 V (no PUSH DIM)
Forward voltage	46 V
Ambient temperature	tc 75 °C ta -25 – +45/50 °C
Service life	50000 h
Terminal primary side	max. 2.5 mm ²
Terminal secondary side	Cable with plug-connector
Weight	185 g
Max. Ripple	3 %

SPECIFICATION

- Internal protection against
- Voltage peaks
 - Short circuit
 - Overheating

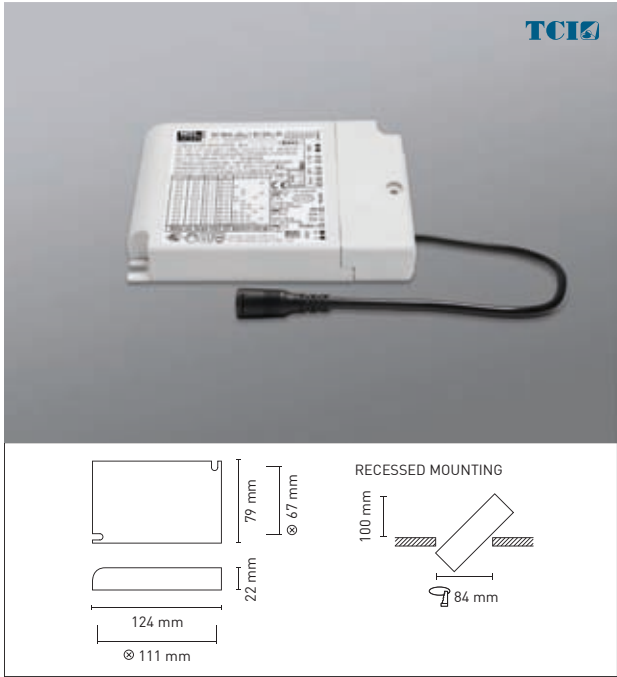


Detailed wiring diagram on page 188

COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, EN 62384, VDE 0710-T14

DRIVERS LED PANELS



MGL 0105 DIMMABLE

Multi power driver with open DIP switches for the pre-settable operation between 350 and 1050 mA.
Dimmable: DALI, 1 – 10V or PUSH DIM

Operating current	Power	Article no.
350 – 1050 mA	40 W	MGL 0105

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz	
Input voltage (DC)	176 – 264 V (no PUSH DIM)	
Forward voltage	38 V	
Ambient temperature	tc 85 °C	ta -25 – +50 °C
Service life	50000 h	
Terminal primary side	max. 1.5 mm ²	
Terminal secondary side	Cable with plug-connector	
Weight	150 g	
Max. Ripple	3 %	

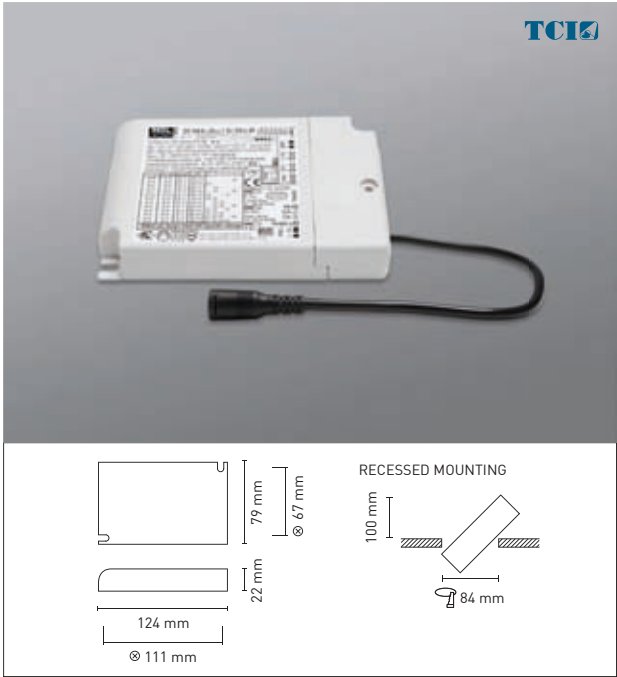
SPECIFICATION

Internal protection against	05	IP20	SELV
· Voltage peaks			
· Short circuit			
· Overheating			

Detailed wiring diagram on page 184

COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, EN 62384



MGL 0106 DIMMABLE

Multi power driver with fixed DIP switches
Dimmable: DALI, 1 – 10V or PUSH DIM

Operating current	Power	Article no.
750 mA	40 W	MGL 0106

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz	
Input voltage (DC)	176 – 264 V (no PUSH DIM)	
Forward voltage	53 V	
Ambient temperature	tc 85 °C	ta -25 – +50 °C
Service life	50000 h	
Terminal primary side	max. 1.5 mm ²	
Terminal secondary side	Cable with plug-connector	
Weight	150 g	
Max. Ripple	3 %	

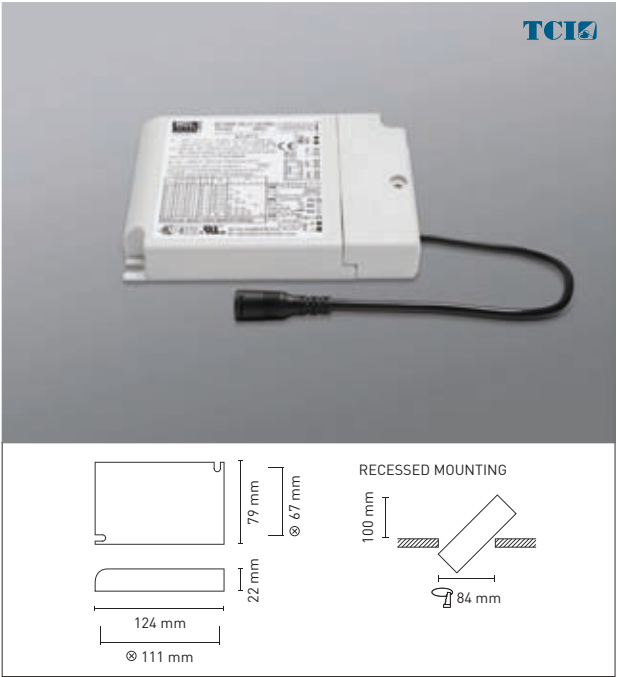
SPECIFICATION

Internal protection against	05	IP20	SELV
· Voltage peaks			
· Short circuit			
· Overheating			

Detailed wiring diagram on page 184

COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, EN 62384



MGL 0092 DIMMABLE

Multi power driver with fixed DIP switches
Dimmable: DALI, 1 – 10V or PUSH DIM

Operating current	Power	Article no.
750 mA	50 W	MGL 0092

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz	
Input voltage (DC)	176 – 264 V (no PUSH DIM)	
Forward voltage	66 V	
Ambient temperature	tc 85 °C	ta -25 – +45 °C
Service life	50000 h	
Terminal primary side	max. 1.5 mm ²	
Terminal secondary side	Cable with plug-connector	
Weight	150 g	
Max. Ripple	3 %	

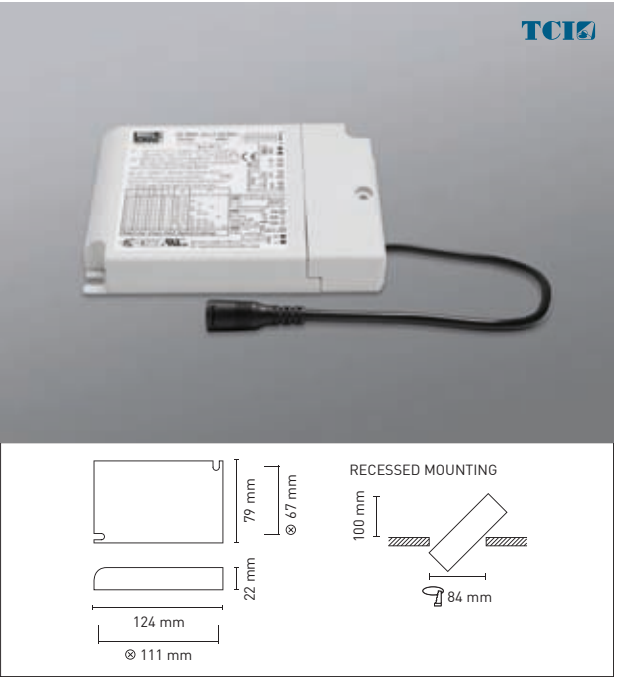
SPECIFICATION

Internal protection against	05	IP20	SELV
· Voltage peaks			
· Short circuit			
· Overheating			

Detailed wiring diagram on page 184

COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, EN 62384



MGL 0011 DIMMABLE

Multi power driver with open DIP switches for the pre-settable operation between 350 and 1050 mA.
Dimmable: DALI, 1 – 10V or PUSH DIM

Operating current	Power	Article no.
300 – 1050 mA	50 W	MGL 0011

TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz	
Input voltage (DC)	176 – 264 V (not dimmable)	
Forward voltage	max. 66 V	
Ambient temperature	tc 85 °C	ta -25 – +45 °C
Service life	50000 h	
Terminal primary side	max. 1.5 mm ²	
Terminal secondary side	Cable with plug-connector	
Weight	150 g	
Max. Ripple	3 %	

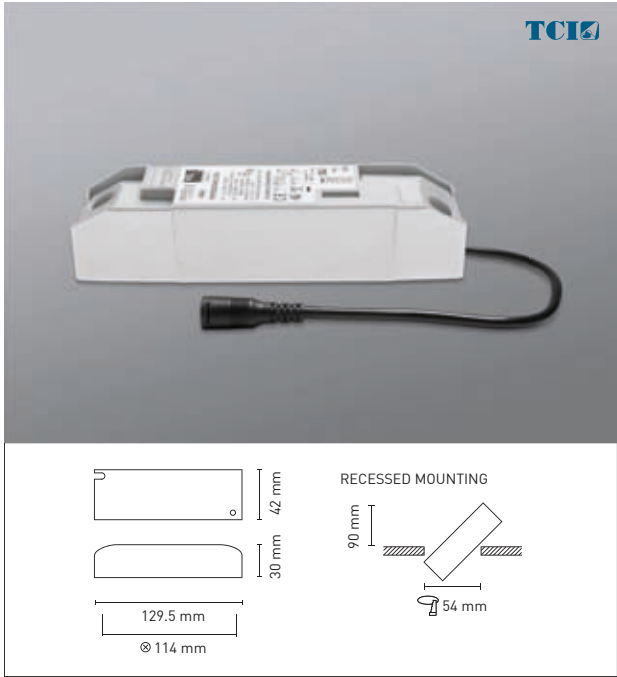
SPECIFICATION

Internal protection against	05	IP20	SELV
· Voltage peaks			
· Short circuit			
· Overheating			

COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 60598-2-22, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61347-2-13, EN 61547, EN 62384, UL 1310, VDE 0710-T14

DRIVERS LED PANELS



MGL 0175 DIMMABLE

Multi power driver with open DIP switches for the pre-settable operation between 300 and 1050 mA. Dimmable: DALI

Operating current	Power	Article no.
300 – 1050 mA	16 – 38 W	MGL 0175

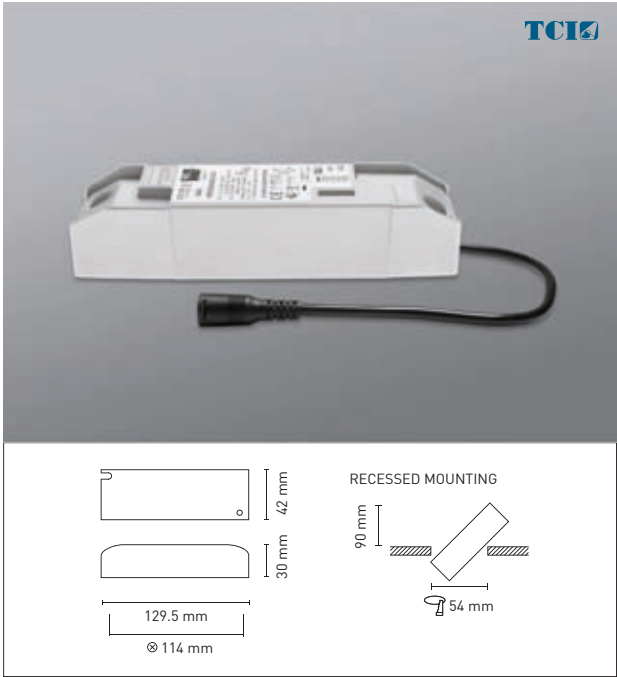
TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz
Input voltage (DC)	198 – 276 V
Forward voltage	max. 59 V
Ambient temperature	tc 80 °C ta -25 – +45 °C
Service life	50000 h
Terminal primary side	max. 1.5 mm ²
Terminal secondary side	Cable with plug-connector
Weight	105 g
Max. Ripple	3 %

SPECIFICATION

Internal protection against	05 IP20 SELV
· Voltage peaks	
· Short circuit	
· Overheating	

COMPLIANT WITH FOLLOWING STANDARDS
EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, EN 62386-101, EN 62386-102, EN 62386-207, VDE 0710-T14



MGL 0176 DIMMABLE

Multi power driver with fixed DIP switches Dimmable: DALI

Operating current	Power	Article no.
750 mA	36 W	MGL 0176

TECHNICAL DATA

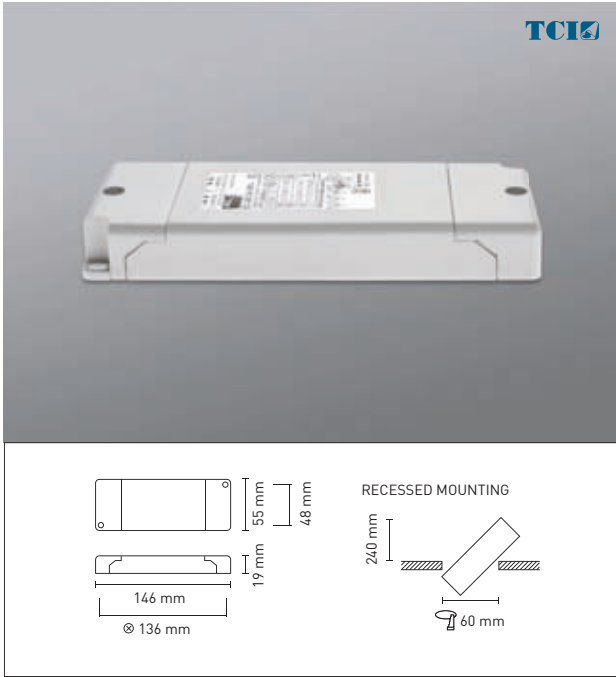
Input voltage (AC)	220 – 240 V · 50/60 Hz
Input voltage (DC)	198 – 276 V
Forward voltage	max. 59 V
Ambient temperature	tc 80 °C ta -25 – +45 °C
Service life	50000 h
Terminal primary side	max. 1.5 mm ²
Terminal secondary side	Cable with plug-connector
Weight	105 g
Max. Ripple	3 %

SPECIFICATION

Internal protection against	05 IP20 SELV
· Voltage peaks	
· Short circuit	
· Overheating	

COMPLIANT WITH FOLLOWING STANDARDS
EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, EN 62386-101, EN 62386-102, EN 62386-207, VDE 0710-T14

CONSTANT VOLTAGE DRIVERS



MGL 0153 SWITCHABLE

Constant voltage driver 24 V DC

Voltage	Power	Article no.
24 V DC	24 W	MGL 0153

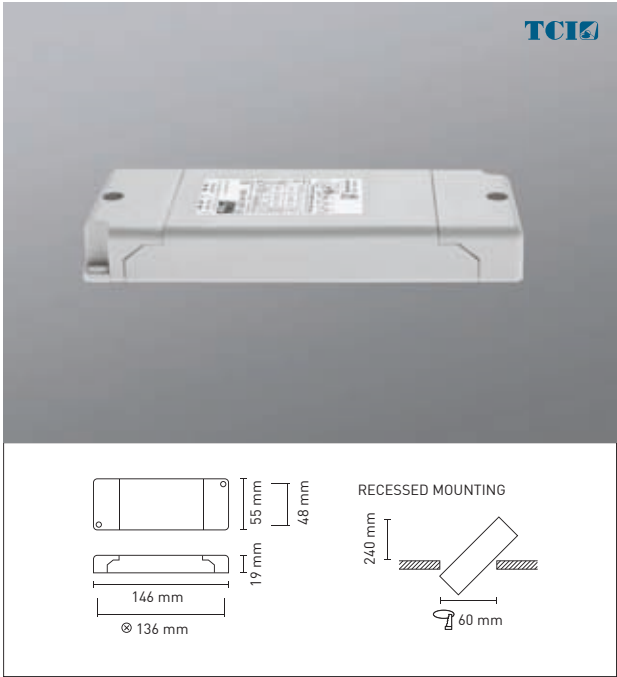
TECHNICAL DATA

Input voltage (AC)	220 – 240 V · 50/60 Hz
Input voltage (DC)	176 – 264 V (not dimmable)
Output voltage (DC)	24 V
Output current	1.04 A max.
Ambient temperature	tc 80 °C ta -25 – +50 °C
Service life	50000 h
Terminal primary side	max. 1.5 mm ²
Terminal secondary side	max. 1.5 mm ²
Weight	130 g
Max. Ripple	3 %

SPECIFICATION

Internal protection against	05 IP20 SELV
· Voltage peaks	
· Short circuit	
· Overheating	

COMPLIANT WITH FOLLOWING STANDARDS
EN 50172 (VDE0108), EN 55015, EN 60598-1 EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, EN 62384, VDE 0710-T14



MGL 0227 SWITCHABLE

Constant voltage driver 12 V DC

Voltage	Power	Article no.
12 V DC	20 W	MGL 0227

TECHNICAL DATA

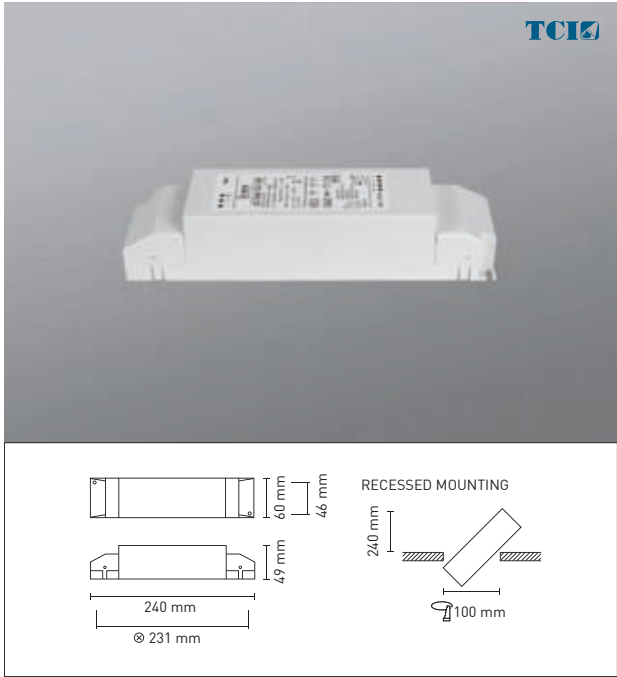
Input voltage (AC)	220 – 240 V · 50/60 Hz
Input voltage (DC)	176 – 264 V (not dimmable)
Output voltage (DC)	24 V
Output current	1.04 A max.
Ambient temperature	tc 80 °C ta -25 – +50 °C
Service life	50000 h
Terminal primary side	max. 1.5 mm ²
Terminal secondary side	max. 1.5 mm ²
Weight	130 g
Max. Ripple	3 %

SPECIFICATION

Internal protection against	05 IP20 SELV
· Voltage peaks	
· Short circuit	
· Overheating	

COMPLIANT WITH FOLLOWING STANDARDS
EN 50172 (VDE0108), EN 55015, EN 60598-1-, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 61547, EN 62384, VDE 0710-T14

CONSTANT VOLTAGE DRIVERS



MGL 0228 SWITCHABLE

Constant voltage driver 12V DC

Voltage	Power	Article no.
12V DC	50W	MGL 0228

TECHNICAL DATA

Input voltage (AC)	220 – 240V · 50/60 Hz	
Input voltage (DC)	176 – 264V (not dimmable)	
Output voltage (DC)	24V	
Output current	1.04 A max.	
Ambient temperature	tc 70 °C	ta -40 – +45 °C
Service life	50000 h	
Terminal primary side	max. 1.5 mm²	
Terminal secondary side	max. 1.5 mm²	
Weight	290 g	
Max. Ripple	3%	

SPECIFICATION

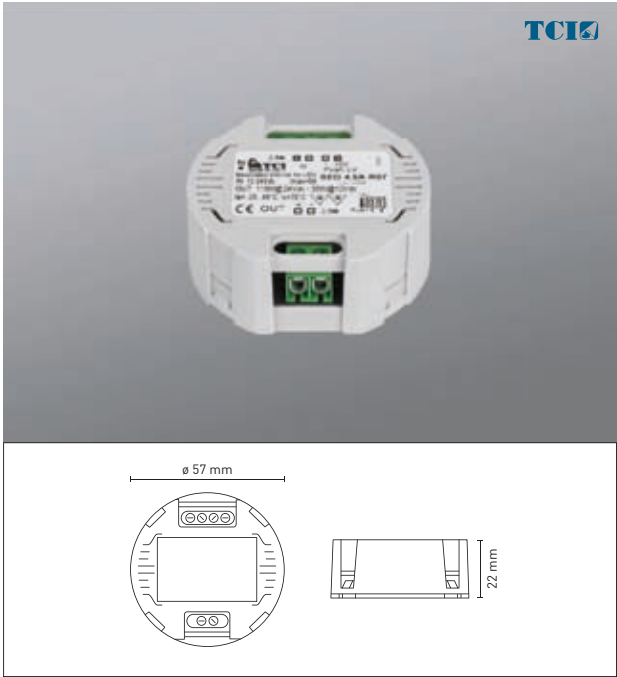
Internal protection against

- Voltage peaks
- Short circuit
- Overheating



COMPLIANT WITH FOLLOWING STANDARDS

EN 50172 (VDE0108), EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1,EN 61347-2-13, EN 61547, VDE 0710-T14



MGL 0229 DIMMING MODULE

PWM Low voltage dimmer 12/24V DC

Voltage	Power	Article no.
12V DC	55W	MGL 0229
24V DC	110W	

TECHNICAL DATA

Input voltage (DC)	12 – 24V	
Output voltage (DC)	12 – 24V	
Output current	4.5 A max.	
Ambient temperature	tc 70 °C	ta -25 – +45 °C
Service life	50000 h	
Terminal primary side	max. 1.5 mm²	
Terminal secondary side	max. 1.5 mm²	
Weight	30 g	
Max. Ripple	3%	

SPECIFICATION

Internal protection against

- Voltage peaks
- Short circuit
- Overheating



COMPLIANT WITH FOLLOWING STANDARDS

EN 61347-1,EN 61347-2-11

DRIVERS SPECIAL SOLUTIONS

MINI DOWNLIGHT MDL IP44 | IP65 & DLS 45

MGL 0039 | MGL 0063 | MGL 0108 | MGL 0064
MGL 0037 | MGL 0036

Installation must take place using an inspection opening in a suitable position.
With a 160 mm recessed depth, only the MGL0063 driver can fit through the ceiling cut-out along with a 3-plug connector.

Note the installation dimensions for the following drivers:

MGL 0039 driver switchable 350 mA for operation of 1 to 6 luminaires
MGL 0063 driver switchable 700 mA for operation of 1 to 3 luminaires
MGL 0108 driver dimmable leading and trailing-edge phase for operation of 2 to 5 luminaires
MGL 0064 driver dimmable leading and trailing-edge phase for operation of 3 to 10 luminaires
MGL 0037 driver dimmable 1 – 10V/PUSH DIM 700 mA for operation of 3 to 10 luminaires
MGL 0036 driver dimmable DALI 700 mA for operation of 3 to 10 luminaires

Caution:

Operating fewer luminaires on a driver than specified above may cause the luminaires to be destroyed (e.g. 2 luminaires on MGL 0064). This would void the guarantee.

Exceeding the number (e.g. 12 luminaires on MGL 0064) may lead to operating problems such as flickering.



Multi connector triple low voltage IP20,
Length 1000 mm (MGL 0014)



Multi connector sextuple low voltage IP20,
Length 1000 mm (MGL 0015)



Extension line low voltage IP20,
Length 2000 mm (MGL 0016)

Observe series connection:

Put the accompanying jumpers in unused sockets in order to close the circuit.

DIMMING LEADING AND TRAILING-EDGE PHASE DIMMERS

DRIVERS

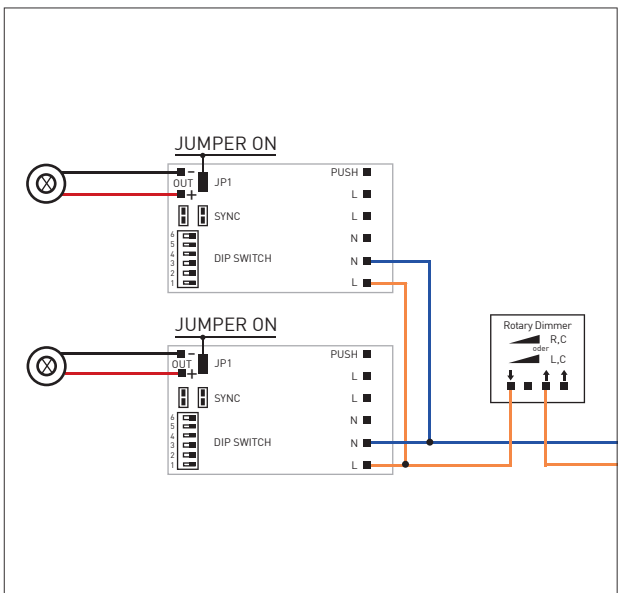
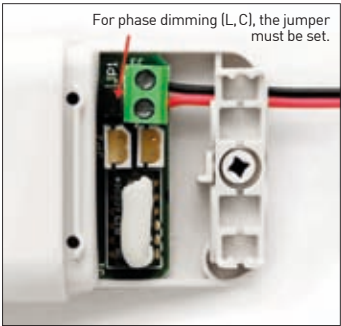
MGL 0027 | MGL 0028 | MGL 0064 | MGL 0117
MGL 0107 | MGL 0108 | MGL 0109 | MGL 0110

The drivers listed enable the smooth dimming of individual luminaires or luminaire groups, depending on their size, using leading and trailing-edge phase dimmers (L,C).

MGL recommends dimmers from Eltako Electronics.
This operating mode has a dimming range of approx. 15 – 99 %.

Visit the MGL homepage for details:
www.mgl-licht.com/technical-information

The minimum load must be observed or set, as luminaires may flicker or flash when the load is insufficient. The contact load of the dimmer must be observed due to the inrush currents of the drivers.



Wiring diagram – MGL 0027 | MGL 0028 | MGL 0064 | MGL 0117
J1 jumper in place (condition on delivery)

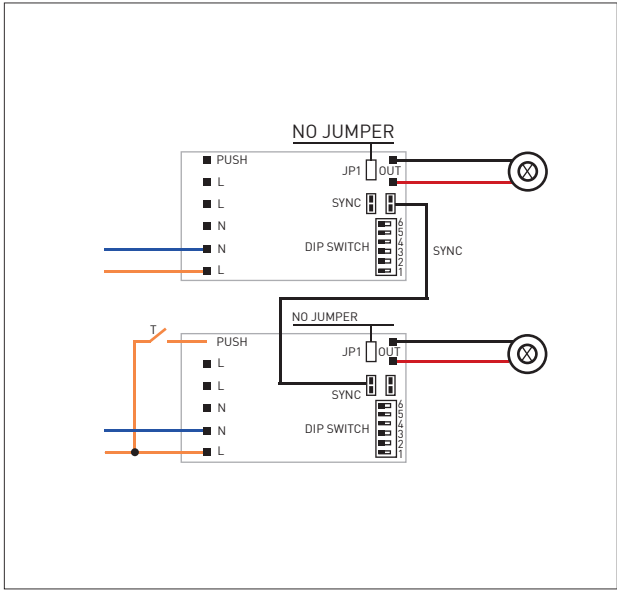
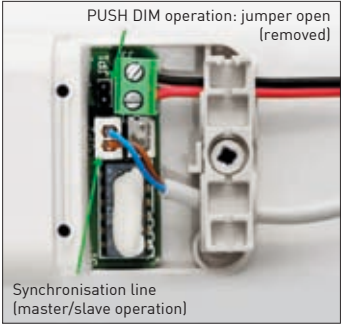
DRIVERS

MGL 0027 | MGL 0028 | MGL 0064 | MGL 0117
MGL 0037 | MGL 0046 | MGL 0047

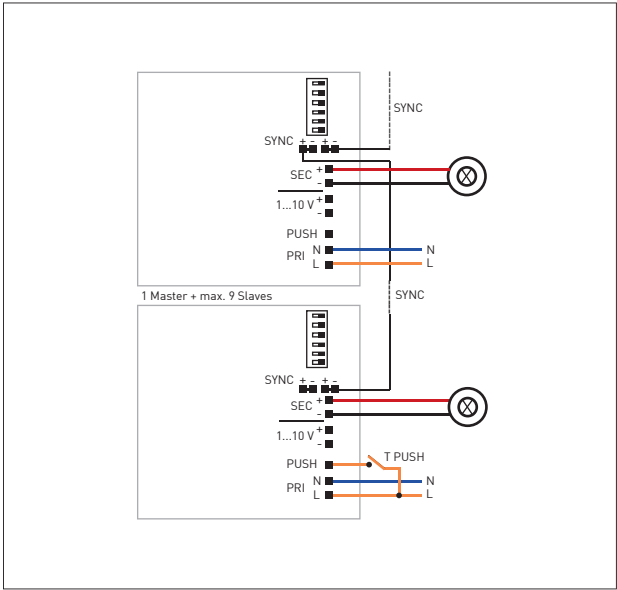
The drivers can switch and dim the luminaires using a conventional push-button (without glow lamp). The driver is operated on 230 V continuous voltage and the external conductor L is connected to the Push terminal via a push-button. Briefly pressing switches the luminaires on/off, while holding it down dims the light up or down.

Important: there is a master device that processes the push signal and there are up to nine slave devices that are connected to each other and the master driver via a synchronisation line.

The line length between the push-button and the master driver must not exceed 15 m.



Wiring diagram – MGL 0027 | MGL 0028 | MGL 0064 | MGL 0117
Remove jumper for PUSH DIM operation.



Wiring diagram – MGL 0037 | MGL 0046 | MGL 0047 | MGL 0130
Reset PUSH DIM to condition on delivery: driver connected to mains voltage, then bypass 1–10 V input for approx. 3 s.

★ ACCESSORIES			
	Length	Article no.	
SYNC line	500 mm	MGL 0065	
SYNC line	1500 mm	MGL 0134	
SYNC line	4000 mm	MGL 0066	

DRIVERS

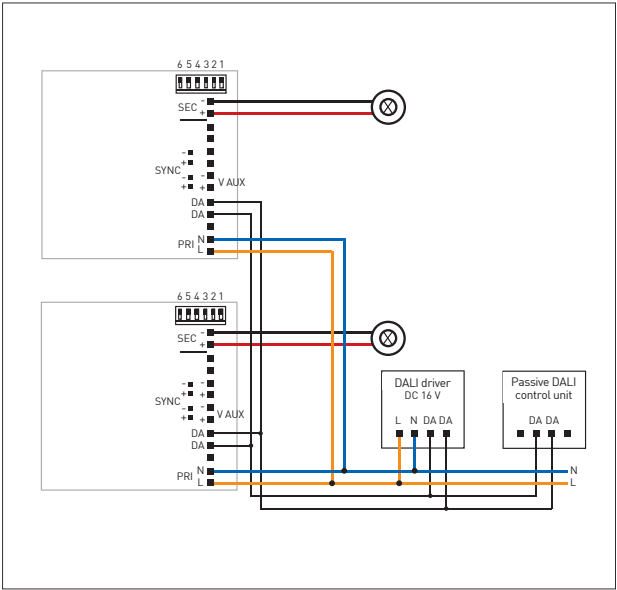
MGL 0023 | MGL 0024 | MGL 0035
MGL 0036 | MGL 0042

The drivers listed can be controlled via DALI. Here the drivers are operated on 230 V continuous voltage and are both switched and controlled via the DALI bus.

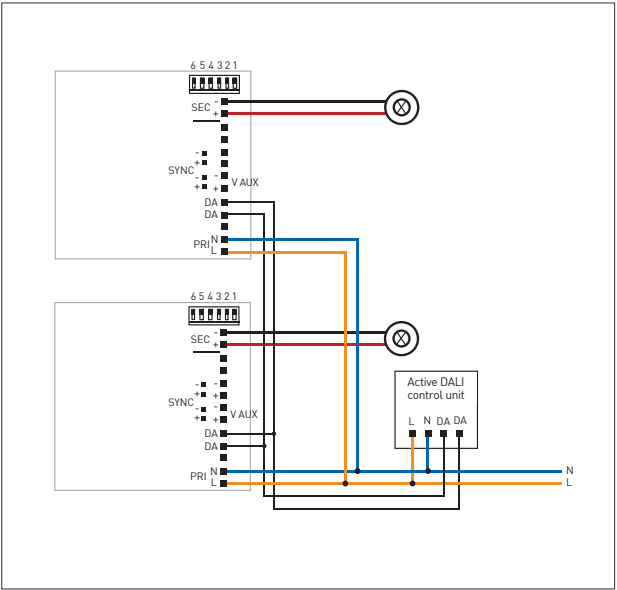
Important: a BUS voltage is required for DALI operation. There are active control units and also DALI drivers for this purpose, which supply approx. 16 V bus voltage.

There is a wide range of options available from various manufacturers. Devices with lighting scene memories and group assignments are possible.

With DALI the dimming range is approx. 1 – 99 %.



Wiring diagram 1



Wiring diagram 2

DRIVERS

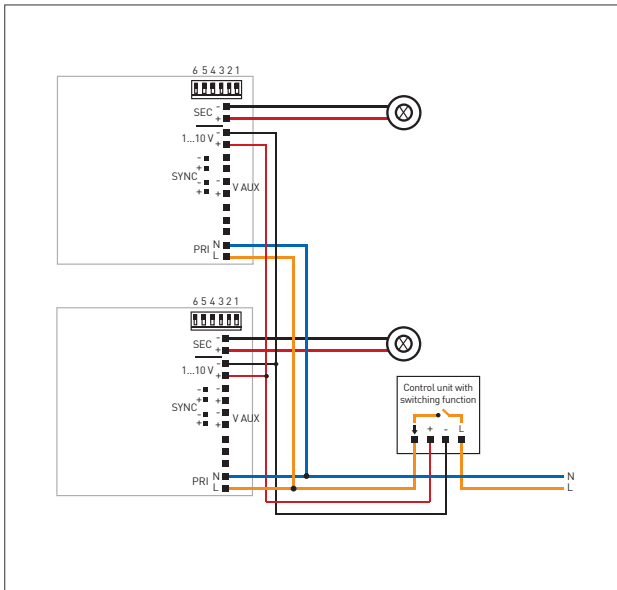
MGL 0025 | MGL 0026 | MGL 0037
MGL 0046 | MGL 0130

The drivers listed can be dimmed or controlled with an electronic potentiometer or a 1–10 V interface. Here the voltage supply of the driver is switched via the switching device and the brightness is controlled via two wires (observe polarity).

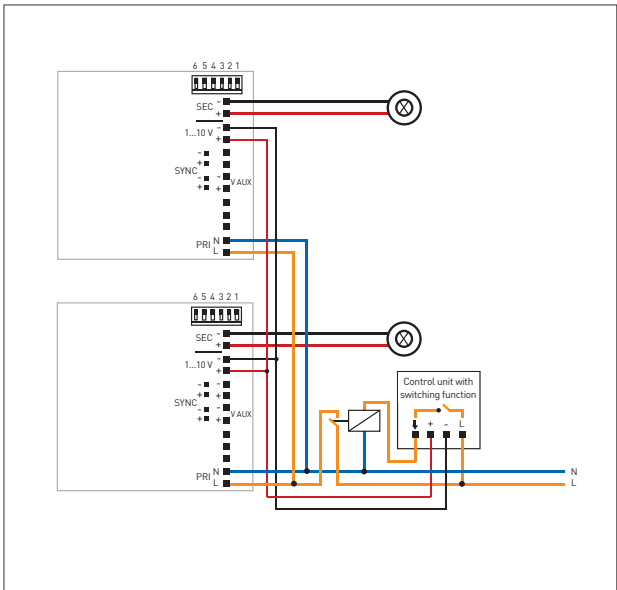
In larger systems, it may be necessary to use a relay, as some control units are only designed for a load of 230 V 2 A or 6 A.

The contact load of the control unit must be observed due to the inrush currents of the drivers.

With 1 – 10 V control the dimming range is approx. 1 – 99 %.



Wiring diagram 3



Wiring diagram 4

PWM LOW-VOLTAGE DIMMER 12/24V DC
MGL 0229

This low-voltage dimmer can be operated in two ways:
Operating mode 1–10 V lighting control via electronic potentiometer or 1–10 V interface in a range of 1–100% (factory setting).

OR

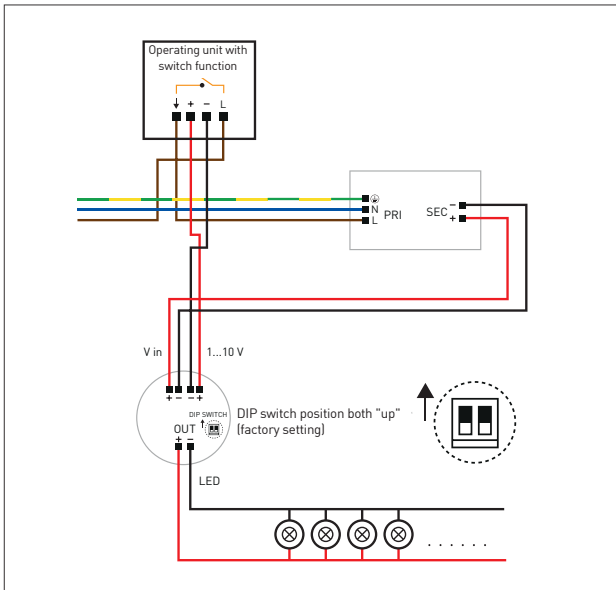
Operating mode PUSH DIM lighting control via conventional pushbutton* without glow lamp.
Lighting control 1–100%

- Briefly press to switch on and off;
- Hold down to increase or decrease the light intensity;
- The control stops automatically when the minimum and maximum points are reached;
- Release the switch and press it again to give another switch-on/switch-off command.

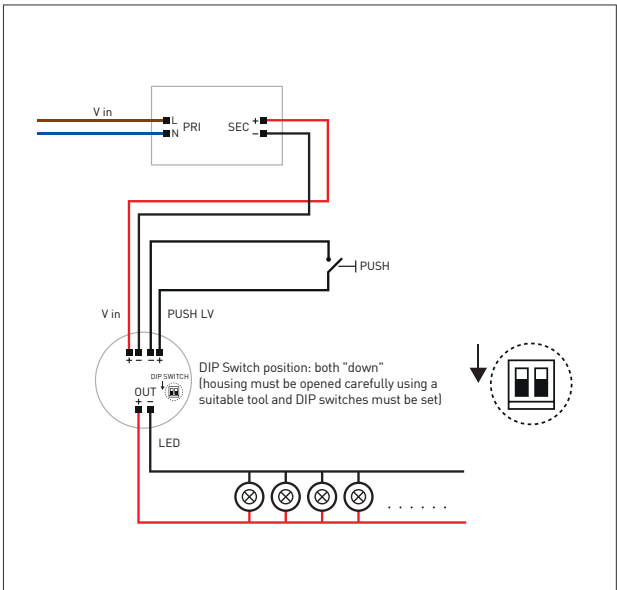
To switch between operating modes 1–10 V and PUSH DIM, the housing must be opened and the DIP switches must be changed over as specified in the circuit diagram.

The device works both with a supply voltage of 12 V DC and with 24 V DC.

* The maximum cable length from the driver to the dimmer must not exceed 15 m.
For applications the cables with 12/24 V DC and 240 V mains cables must be laid at a distance.








Wiring diagram 1 – MGL 0229
1-10V control, switching example for ABS Spot 30 (DC 12V), ORL 55 (DC 24V) and Spot G100 (DC 24V)



Wiring diagram 2 – MGL 0229
PUSH DIM, switching example for ABS Spot 30 (DC 12V), ORL 55 (DC 24V) and Spot G100 (DC 24V)

HOW MANY DRIVERS PER TYPE OF MINIATURE CIRCUIT BREAKER?

	Const./mA	Watt	switch-able 	DALI 	1-10V 	PHASE DIM 	PUSH DIM 	Max. quantity of drivers per type of miniature circuit breaker				Inrush current 1/2 value time at typical mains impedance	
								B16 pcs max.	C16 pcs max.	B10 pcs max.	C10 pcs max.		
MGL 0010	1050 mA	40 W						15	25	9	15	20 A	400 µS
MGL 0011	1050 mA	40 W						15	25	9	15	20 A	400 µS
MGL 0023	350 mA	15 W						50	85	30	52	5 A	50 µS
MGL 0024	500 mA	20 W						50	85	30	52	5 A	50 µS
MGL 0025	350 mA	15 W					*	50	85	30	52	5 A	50 µS
MGL 0026	500 mA	20 W					*	50	85	30	52	5 A	50 µS
MGL 0027	350 mA	17 W						50	85	30	52	5 A	50 µS
MGL 0028	500 mA	20 W						50	85	30	52	5 A	50 µS
MGL 0033	350 mA	19 W						50	85	30	52	5 A	50 µS
MGL 0035	350 mA	15 W						50	85	30	52	5 A	50 µS
MGL 0036	700 mA	32 W						50	85	30	52	5 A	50 µS
MGL 0037	700 mA	32 W						50	85	30	52	5 A	50 µS
MGL 0039	350 mA	8 W						50	85	30	52	20 A	170 µS
MGL 0040	500 mA	12 W						27	45	17	28	27 A	250 µS
MGL 0041	350 mA	15 W						27	45	17	28	27 A	250 µS
MGL 0042	500 mA	24 W						50	85	30	52	5 A	50 µS
MGL 0045	500 mA	22 W						50	85	30	52	5 A	50 µS
MGL 0046	350 mA	15 W						50	85	30	52	5 A	50 µS
MGL 0047	500 mA	24 W						50	85	30	52	5 A	50 µS
MGL 0063	700 mA	11 W						27	45	17	28	27 A	250 µS
MGL 0064	700 mA	32 W						50	85	30	52	5 A	50 µS
MGL 0091	750 mA	32 W						50	85	30	52	5 A	50 µS
MGL 0092	750 mA	50 W						15	25	9	15	20 A	400 µS
MGL 0098	900 mA	50 W						15	25	9	15	20 A	400 µS
MGL 0099	900 mA	50 W						15	25	9	15	20 A	400 µS
MGL 0105	1050 mA	40 W						15	25	9	15	20 A	400 µS
MGL 0106	750 mA	40 W						15	25	9	15	20 A	400 µS
MGL 0107	350 mA	10 W						50	85	30	52	2 A	50 µS
MGL 0108	500 mA	10 W						50	85	30	52	2 A	50 µS
MGL 0109	350 mA	18 W						50	85	30	52	2 A	50 µS
MGL 0110	500 mA	20 W						50	85	30	52	2 A	50 µS
MGL 0111	250 – 700 mA	12 – 34 W						50	85	30	52	5 A	50 µS
MGL 0112	1050 mA	42 W						50	85	30	52	5 A	50 µS
MGL 0113	750 mA	33 W						50	85	30	52	5 A	50 µS
MGL 0115	250 – 700 mA	12 – 34 W						50	85	30	52	5 A	50 µS
MGL 0116	700 mA	32 W						50	85	30	52	5 A	50 µS
MGL 0117	700 mA	32 W						50	85	30	52	5 A	50 µS
MGL 0130	700 mA	32 W						50	85	30	52	5 A	50 µS
MGL 0131	250 – 700 mA	13 – 30 W						50	85	30	52	5 A	50 µS
MGL 0152	250 mA	9 W						50	85	30	52	20 A	170 µS
MGL 0153	24 V	20 W						27	45	17	28	27 A	250 µS
MGL 0156	1050 – 1400 mA	55 W						30	50	18	30	10 A	200 µS
MGL 0165	1600 / 1500 mA	64 W						14	23	8	14	20 A	380 µS
MGL 0166	100 – 380 mA	20 W						50	85	30	52	5 A	50 µS
MGL 0227	12 V	20 W						27	45	17	28	27 A	250 µS
MGL 0228	12 V	50 W						15	25	10	16	15 A	600 µS
MGL 0175	300 – 1050 mA	38 W						50	85	30	52	5 A	50 µS
MGL 0176	750 mA	38 W						50	85	30	52	5 A	50 µS

* only Stand Alone operation, as no SYNC connector

HOW MANY HIGHBAY LUMINAIRES PER TYPE OF MINIATURE CIRCUIT BREAKER?

	Max. quantity of drivers per type of miniature circuit breaker		Inrush current 1/2 value time at typical mains impedance	
	B16 pcs max.	C16 pcs max.		
MGL 3508	4	8	60 A	415 µS
MGL 3509	4	8	60 A	415 µS
MGL 3510	4	7	65 A	425 µS
MGL 3511	4	7	65 A	425 µS
MGL 3512	4	7	65 A	425 µS
MGL 3513	2	3	75 A	680 µS
MGL 3514	2	3	75 A	680 µS
MGL 3515	2	3	75 A	680 µS
MGL 3516	2	3	75 A	680 µS
MGL 3517	2	3	75 A	680 µS
MGL 3518	2	3	75 A	680 µS
MGL 3541	2	3	70 A	1200 µS
MGL 3542	2	3	70 A	1200 µS



HOW MANY MOISTURE PROOF LUMINAIRES PER TYPE OF MINIATURE CIRCUIT BREAKER?

	Max. quantity of drivers per type of miniature circuit breaker		Inrush current 1/2 value time at typical mains impedance	
	B16 pcs max.	C16 pcs max.		
MGL 3004	22	36	4.16 A	100 µS
MGL 3005	22	36	4.16 A	100 µS
MGL 3006	11	23	9.2 A	200 µS
MGL 3009	24	38	2.8 A	100 µS
MGL 3010	24	38	2.8 A	100 µS
MGL 3012	22	36	4.16 A	100 µS



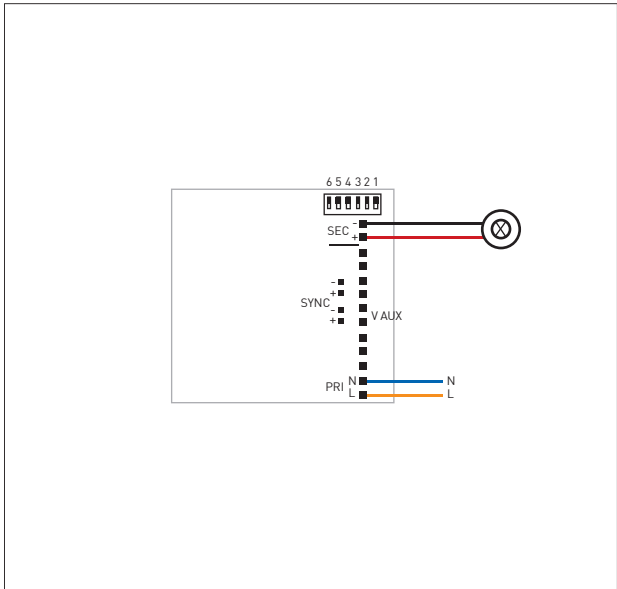
WIRING DIAGRAMS DRIVERS FOR LED PANELS

DRIVERS

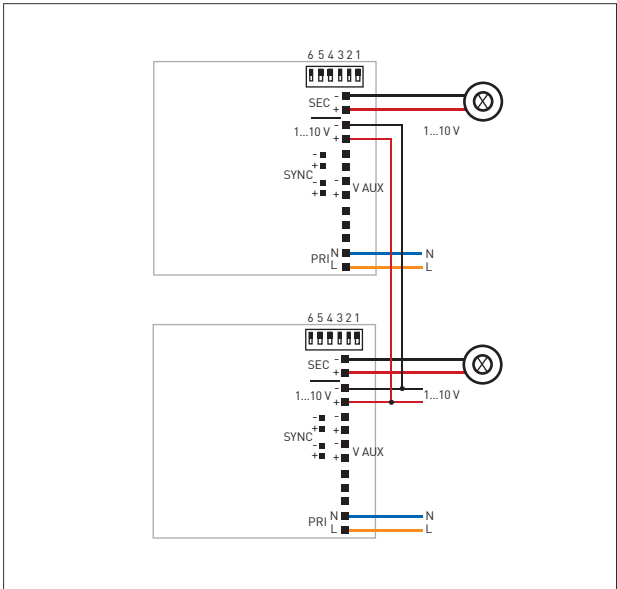


MGL 0011 | MGL 0092 | MGL 0105 | MGL 0106

DIP-SWITCH



1 – 10V Control

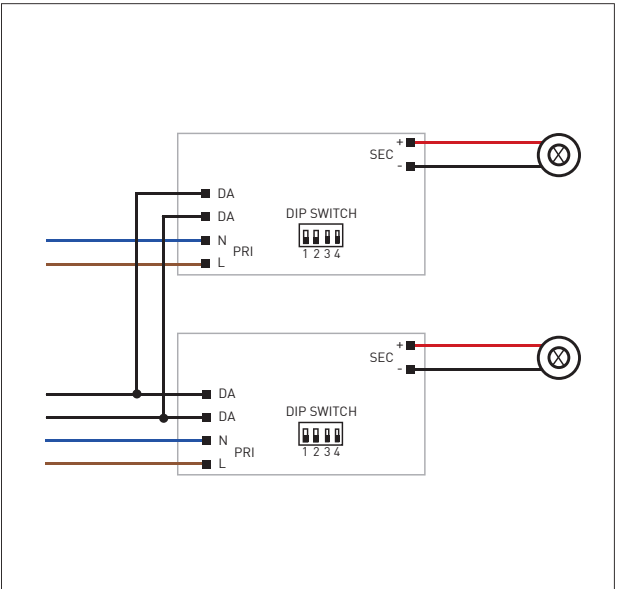


DRIVERS

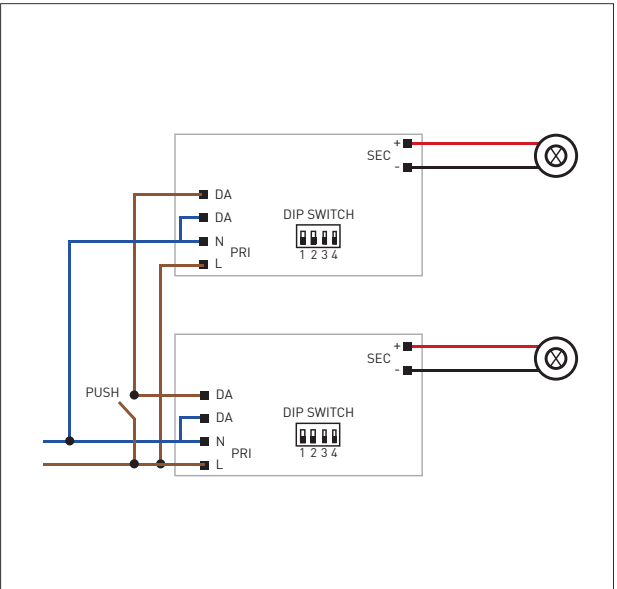


MGL 0175 | MGL 0176

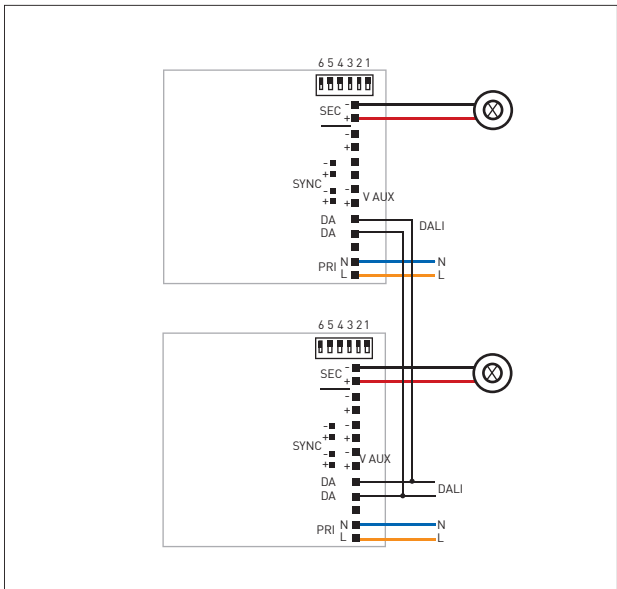
DALI



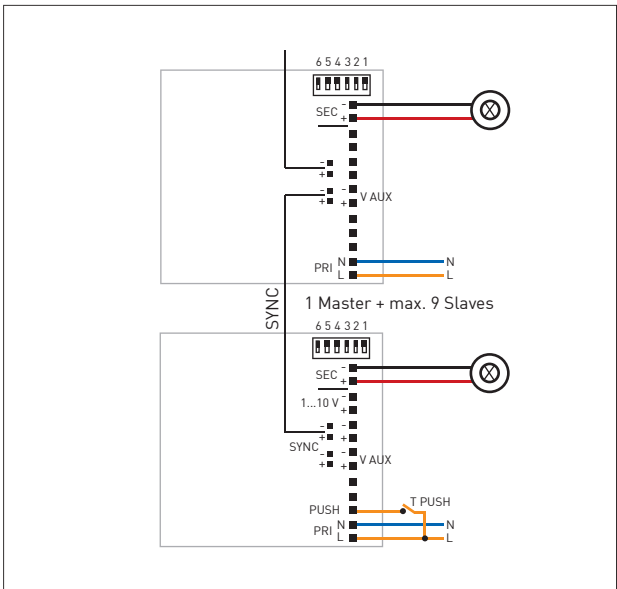
PUSH DIM



DALI



PUSH DIM

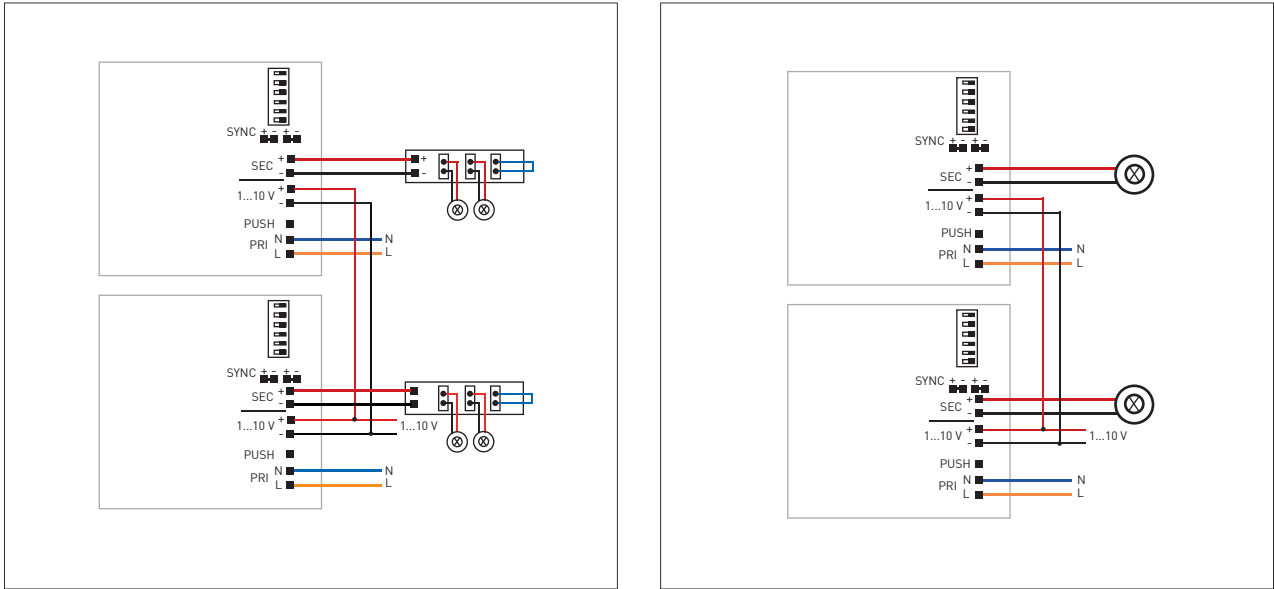


WIRING DIAGRAMS DRIVERS FOR DOWNLIGHTS

DRIVERS 1 – 10V CONTROL



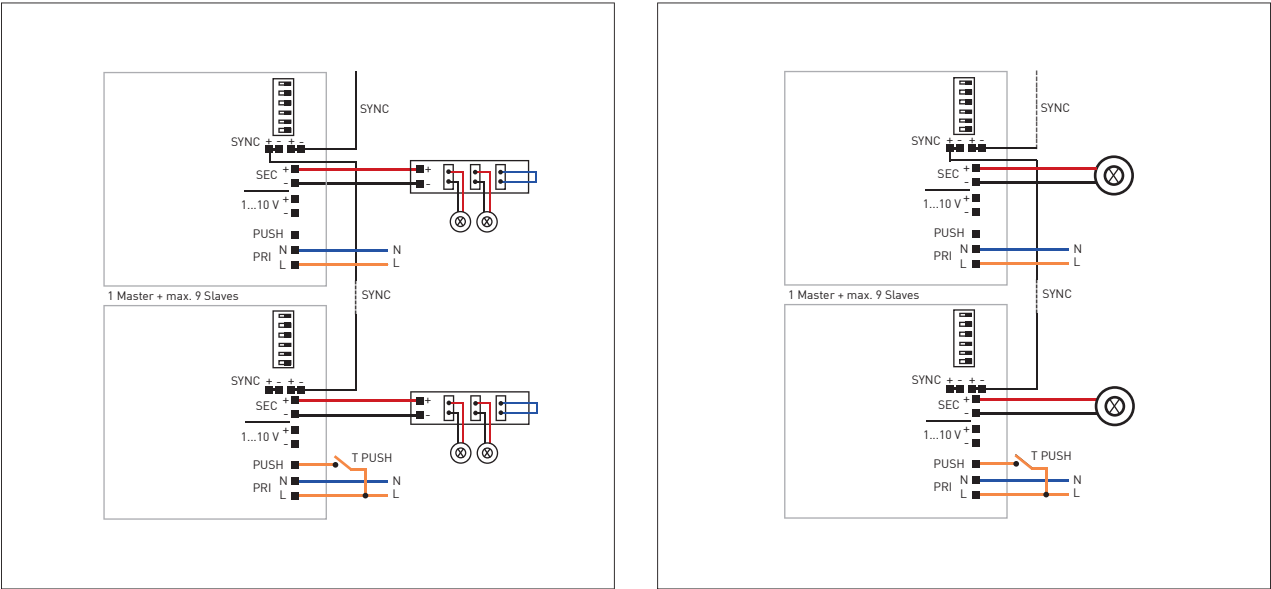
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DRIVERS PUSH DIM



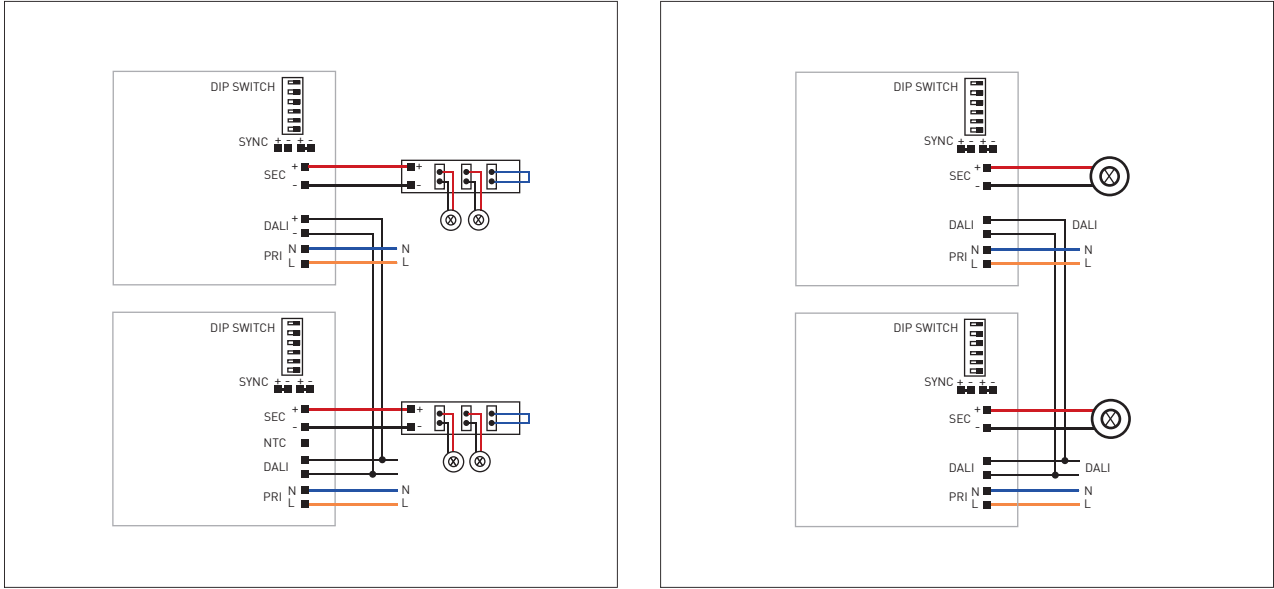
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DRIVERS DALI



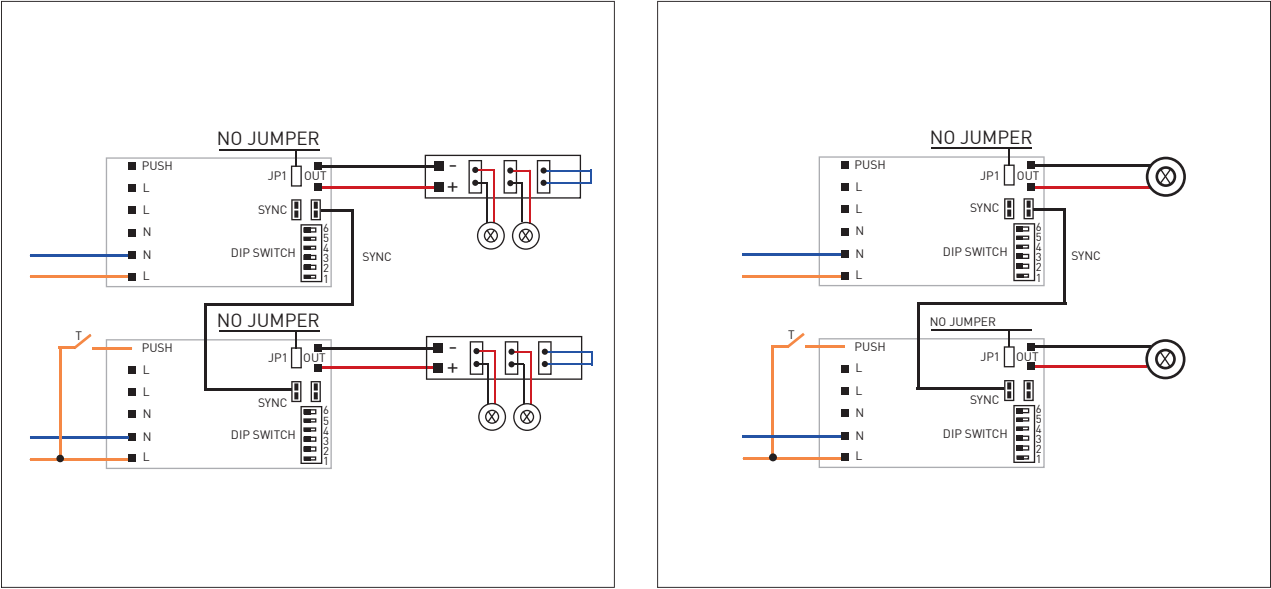
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DRIVERS PUSH DIM



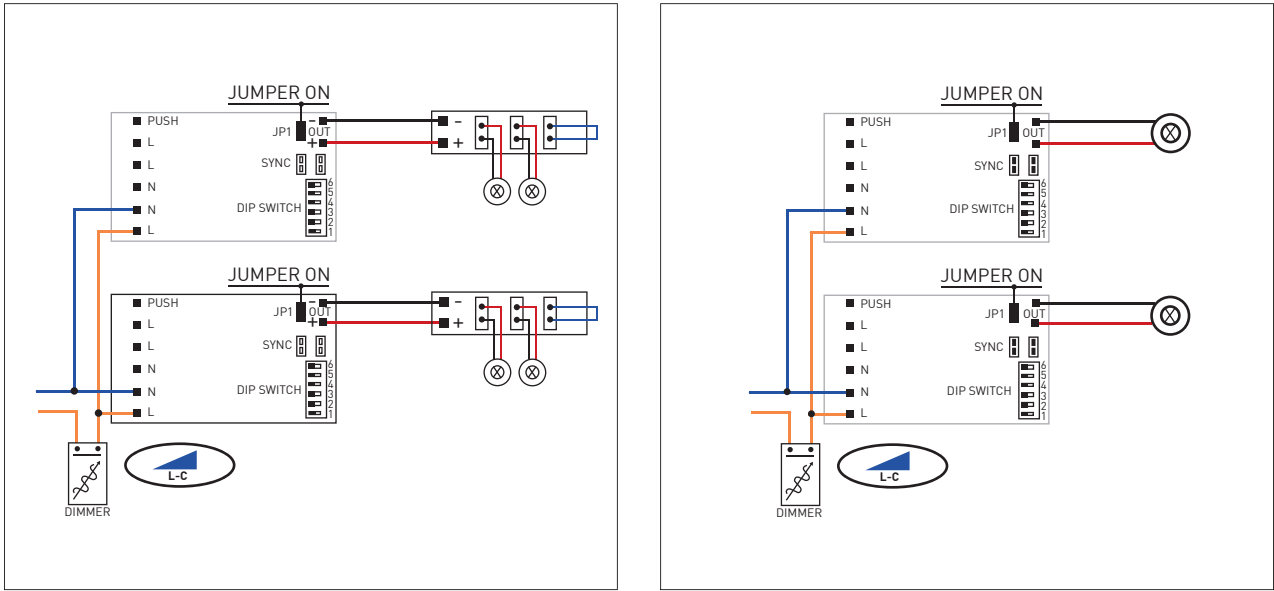
MGL 0027 | MGL 0028 | MGL 0064 | MGL 0117



WIRING DIAGRAMS DRIVERS FOR DOWNLIGHTS

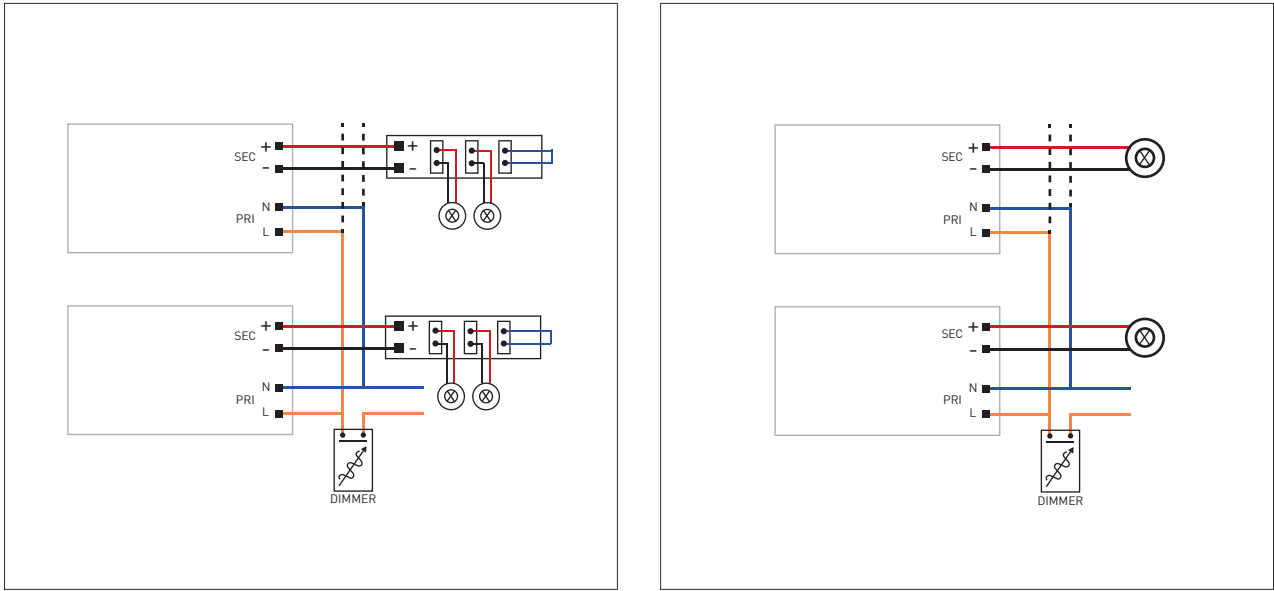
DRIVERS LEADING AND TRAILING-EDGE DIM

MGL 0027 | MGL 0028 | MGL 0064 | MGL 0117



DRIVERS LEADING AND TRAILING-EDGE DIM

MGL 0107 | MGL 0108 | MGL 0109 | MGL 0110



5-YEAR GUARANTEE FOR INDOOR LUMINAIRES



MGL GUARANTEE 5-YEAR INDEPENDENT GUARANTEE OF DURABILITY

MGL Licht GmbH (hereafter: the guarantee provider) hereby grants the commercial buyer (hereafter: the guarantee holder) an independent guarantee of durability for those products explicitly labelled with the symbol "5 year guarantee" under the following conditions:

1. This independent guarantee does not restrict, extend, supersede or otherwise affect statutory guarantee entitlements.
2. The guarantee period amounts to five years from transfer of the product to the guarantee holder or – if this time is earlier – from transfer to an initial carrier appointed by the guarantee provider or the guarantee holder. If a guarantee case arises during the guarantee period and services from the guarantee are performed then these services shall effect no recommencement of the guarantee period.
3. The independent guarantee does not apply for the entire product range of the guarantee provider but rather exclusively to the (LED) products explicitly labelled.
4. The guarantee provider will provide replacement free of charge and as quickly as possible for the defective product within the guarantee period. Any acquisition periods of the guarantee provider must be accepted by the guarantee holder; no delay by the guarantee provider will occur as a result of this unless a delay is not the fault of the guarantee provider. Services other than those mentioned explicitly in these guarantee conditions (e.g. such as purchase price refund, reduction, compensation for damages, compensation for labour or assembly costs and intangible claims) are not covered by this guarantee.
5. To assert guarantee claims the guarantee holder must return the product concerned to the guarantee provider carriage free with proof of purchase and a comprehensive description of the fault for technical examination. If a guarantee case exists then the guarantee provider will provide compensation for return costs actually incurred by the guarantee holder. If no guarantee case exists then the product must be taken back by the guarantee holder for a charge.
6. Defective products are replaced by the guarantee-provider with new lights of the same type in a guarantee case. Because of the rapid technical development in the area of LEDs however the guarantee provider must reserve the right to supply more advanced lights, a later model or a similar model (always at the latest

stage of development) especially in the event that a product has since been discontinued or is no longer available. Variances may occur here with respect to power or system efficiency (Lumen/W), this does not constitute a defect or fault. Neither does a (further) guarantee case, defect or fault exist if brightness differences occur with a replacement light relative to a nondefective remaining lighting group due to an aging process based on technical reasons already being advanced in the remaining lighting group and these lights therefore having lost luminosity.

7. Services from this guarantee are conditional upon the performance of installation properly and appropriately for the product in accordance with the manufacturer's instructions and the installation instructions for the product by people qualified to do so and in accordance with the latest technology in line with the respective current standards. The guarantee holder must provide suitable evidence of this upon request. Defects or faults due to defective installation, e.g. such as installation depths or installation volumes that have not been observed, or to incorrect and inappropriate storage of the product are excluded.
8. Guarantee claims are excluded if the product has been electrically or mechanically adapted or remodelled by the guarantee holder even if a defect or fault is not attributable to this.
9. Claims from this guarantee by the guarantee holder establish no rights of retention whatsoever against the guarantee provider and particularly against the possible rights of the same from other obligations.
10. The place of jurisdiction for all claims from this Independent guarantee is the head office of the guarantee provider.
11. The invalidity of individual provisions from this independent guarantee shall not result in overall invalidity of the guarantee provisions.

Status of the guarantee provisions: 23.06.2014

3-YEAR GUARANTEE FOR OUTDOOR LUMINAIRES



MGL GUARANTEE 3-YEAR INDEPENDENT FUNCTIONAL GUARANTEE

MGL Licht GmbH (hereafter: the guarantee provider) hereby grants the commercial buyer (hereafter: the guarantee holder) an independent functional guarantee for those products explicitly labelled with the symbol "3 year guarantee" under the following conditions:

1. This independent guarantee does not restrict, extend, supersede or otherwise affect statutory guarantee entitlements.
2. The guarantee period amounts to three years from transfer of the product to the guarantee holder or – if this time is earlier – from transfer to an initial carrier appointed by the guarantee provider or the guarantee holder. If a guarantee case arises during the guarantee period and services from the guarantee are performed then these services shall effect no recommencement of the guarantee period.
3. The independent guarantee does not apply for the entire product range of the guarantee provider but rather exclusively to the (LED) products explicitly labelled.
4. The guarantee provider will provide replacement free of charge and as quickly as possible for the defective product within the guarantee period. Any acquisition periods of the guarantee provider must be accepted by the guarantee holder; no delay by the guarantee provider will occur as a result of this unless a delay is not the fault of the guarantee provider. Services other than those mentioned explicitly in these guarantee conditions (e.g. such as purchase price refund, reduction, compensation for damages, compensation for labour or assembly costs and intangible claims) are not covered by this guarantee.
5. To assert guarantee claims the guarantee holder must return the product concerned to the guarantee provider carriage free with proof of purchase and a comprehensive description of the fault for technical examination. If a guarantee case exists then the guarantee provider will provide compensation for return costs actually incurred by the guarantee holder. If no guarantee case exists then the product must be taken back by the guarantee holder for a charge.
6. Defective products are replaced by the guarantee-provider with new lights of the same type in a guarantee case. Because of the rapid technical development in the area of LEDs however the guarantee provider must reserve the right to supply more advanced lights, a later model or a similar model (always at the latest stage

of development) especially in the event that a product has since been discontinued or is no longer available. Variances may occur here with respect to power or system efficiency (Lumen/W), this does not constitute a defect or fault. Neither does a (further) guarantee case, defect or fault exist if brightness differences occur with a replacement light relative to a nondefective remaining lighting group due to an aging process based on technical reasons already being advanced in the remaining lighting group and these lights therefore having lost luminosity.

7. Services from this guarantee are conditional upon the performance of installation properly and appropriately for the product in accordance with the manufacturer's instructions and the installation instructions for the product by people qualified to do so and in accordance with the latest technology in line with the respective current standards. The guarantee holder must provide suitable evidence of this upon request. Defects or faults due to defective installation, e.g. such as installation depths or installation volumes that have not been observed, or to incorrect and inappropriate storage of the product are excluded.
8. Guarantee claims are excluded if the product has been electrically or mechanically adapted or remodelled by the guarantee holder even if a defect or fault is not attributable to this.
9. The guarantee relates exclusively to the function of the light. Only optical defects for example such as fading or chipping of the paint or signs of corrosion are not covered by the guarantee. The guarantee likewise excludes a decline in brightness or a change in colour temperature due to external influences such as constant direct UV radiation or similar.
10. Claims from this guarantee by the guarantee holder establish no rights of retention whatsoever against the guarantee provider and particularly against the possible rights of the same from other obligations.
11. The place of jurisdiction for all claims from this Independent guarantee is the head office of the guarantee provider.
12. The invalidity of individual provisions from this independent guarantee shall not result in overall invalidity of the guarantee provisions.

Status of the guarantee provisions: 17.07.2017

GENERAL TERMS AND CONDITIONS OF TRADE

GTCT of MGL Licht GmbH in accordance with the general terms and conditions of delivery for products and services of the electrical industry for use in business transactions with businesses

I. General provisions

1. These GTD apply exclusively for the legal relations between supplier and purchaser in connection with the deliveries and services from the supplier (hereafter: Deliveries). General terms and conditions of trade of the purchaser apply only to the extent to which the supplier has explicitly agreed to them in writing. The mutual congruent written declarations are decisive for the scope of the Deliveries.
2. The supplier reserves the ownership and copyright rights of use of quotes, drawings and other documents (hereafter: Documents) without limitation. The Documents may be made available to third parties only after prior consent from the supplier and must be returned to the same immediately on request if the order is not placed with the supplier. Clauses 1 and 2 apply accordingly for Documents of the purchaser; these may however be made available to such third parties as the supplier has admissibly entrusted with Deliveries.
3. The purchaser has the non-exclusive right to the use of standard software and firmware with the agreed performance features in unchanged form on the agreed devices. The purchaser is permitted to make a backup copy of the standard software without explicit agreement.
4. Partial deliveries are permissible as long as they are acceptable to the purchaser.
5. The term "damage compensation claims" in these GTD also covers compensation claims for wasted expenditure.

II. Prices, terms of payment and offsetting

1. The prices are ex works excluding packaging plus the respective applicable statutory sales tax.
2. If the supplier has undertaken the installation or assembly and unless otherwise agreed the purchaser shall cover all necessary additional costs such as travel and transport costs as well as accommodation in addition to the agreed payment.
3. Payments must be made free to the paying agent of the supplier.
4. The purchaser can offset only against such claims as are undisputed or legally binding.

III. Retention of title

1. The objects of the Deliveries (reserved goods) remain the property of the supplier until fulfilment of all claims to which the same is entitled against the purchaser from the business relationship. If the value of all security rights to which the supplier is entitled exceeds the sum of all the secured claims by more than 20 % then the supplier will release a corresponding portion of the security rights; the supplier is entitled to choose between various security rights for release.
2. Whilst the retention of title exists the purchaser is prohibited from pledging or transferring as security and permitted to resell only to retailers in the ordinary course of business and only on

condition that the retailer receive payment from the customer of the same or stipulate the condition that ownership transfers to the customer only once the payment obligations of the same have been fulfilled.

3. If the purchaser resells the reserved goods then as security the same now assigns to the supplier the future claims from the resale to customers of the purchaser with all subsidiary rights – including any balance claims – with no need for further special declarations. If the reserved goods are resold together with other items without an individual price having been agreed for the reserved goods then the purchaser assigns to the supplier that portion of the total asking price which corresponds to the price of the reserved goods invoiced by the supplier.
- 4a. The purchaser is permitted to process the reserved goods or to mix or combine them with other items. The processing takes place for the supplier. The purchaser shall keep the new item created for the supplier with the care of a prudent business operator. The new item is deemed to be reserved goods.
- b. The supplier and purchaser agree now in the case of combining or mixing with other items that do not belong to the supplier that the supplier always has joint ownership of the new item amounting to the proportion arising from the ratio of the value of the combined or mixed reserved goods to the value of the remaining goods at the time of combining or mixing. The new item is considered to be reserved goods to this extent.
- c. The provision concerning the assignment of claims in accordance with no. 3 also applies for the new item. However the assignment applies only up to the amount that corresponds to the value of the processed, combined or mixed goods invoiced by the supplier.
- d. If the purchaser combines the reserved goods with properties or movable items then with no need for further special declarations the purchaser also assigns to the supplier as security the claim to which the purchaser is entitled in payment for the combination with all subsidiary rights to the amount of the ratio of the value of the combined reserved goods to the value of the remaining goods at the time of combining.
5. Until further notice the purchaser is authorised to collect assigned claims from resale. The supplier is entitled to revoke the collection authority of the purchaser if good cause exists and particularly in the case of default in payment, cessation of payment, opening of insolvency proceedings, bill or protest or justified indications of excessive debt or impending insolvency of the customer. After prior warning and compliance with a reasonable deadline the supplier can disclose the security assignment, exploit the assigned claims and demand that the purchaser disclose the security assignment to the customer.
6. The purchaser must inform the supplier immediately in the case of distraints, seizures or other dispositions or interventions by third parties. If a legitimate interest is substantiated then the purchaser must immediately provide the supplier with the information required to assert the rights of the same against the customers and issue the necessary Documents.
7. In the event of breaches of duty by the purchaser and particularly in the case of default of payment the supplier is also entitled to withdrawal in addition to repossession after unsuccessful expiry of a performance deadline set for the purchaser;

the statutory provisions concerning the dispensability of setting a deadline remain unaffected. The purchaser is obliged to surrender the goods. No withdrawal from the contract lies in the repossession or the assertion of the retention of title or seizure of the reserved goods by the supplier unless the supplier has explicitly declared it.

IV. Deadlines for deliveries; default

1. Compliance with deadlines for deliveries requires timely receipt of all Documents, required permits and approvals and particularly plans to be provided by the purchaser as well as compliance with the agreed terms and conditions of payment and other obligations by the purchaser. If these conditions are not fulfilled in time then the deadlines shall be reasonably extended; this does not apply if the supplier is responsible for the delay.
2. If non-compliance with the deadlines is due to a) force majeure e.g. mobilisation, war, acts of terrorism, riot or similar events (e.g. strike, lockout), b) virus and other attacks of third parties on the IT system of the supplier if such have occurred despite compliance with the usual care in protective measures, c) obstacles due to German, US American and other applicable national, EU or international regulations of foreign trade legislation or due to other circumstances for which the supplier is not responsible or d) delivery not on time or incorrectly to the supplier then the deadlines shall be reasonably extended.
3. If the supplier falls into default then the purchaser may – as long as the purchaser substantiates that damage has been incurred by the same – demand compensation of 0.5 % for every full week of delay but a maximum of 5 % of the price for the portion of the deliveries that it was not possible to use appropriately because of the delay.
4. Both damage compensation claims of the purchaser due to delayed delivery and damage compensation claims in lieu of performance which go beyond the limits stated in no. 3 are excluded in all cases of delayed delivery even after expiry of a delivery deadline set for the supplier. This does not apply if there is liability in cases of intent, gross negligence or due to injury to life, body or health. Within the scope of the statutory provisions the purchaser may withdraw from the contract only if the delay to the delivery is the fault of the supplier. No change in the onus of proof to the detriment of the purchaser is associated with the above provisions.
5. The purchaser is obliged on request of the supplier to declare within a reasonable period whether the purchaser is withdrawing from the contract due to the delay in delivery or insisting on the delivery.
6. If dispatch or delivery are delayed at the request of the purchaser by more than one month after notification of readiness for dispatch then the purchaser may be charged storage fees amounting to 0.5% of the price of the delivery items for every additional month or part thereof but a maximum of 5% in total. The right to prove higher or lower storage costs is not affected.

V. Transfer of risk

1. The risk is transferred to the purchaser as follows including in the case of delivery carriage paid: a) when it is dispatched or collected in the case of delivery without installation or assembly – on request and at the expense of the purchaser the supplier will insure the delivery against the usual transport risks; b) on the day of acceptance in own plant or if agreed then after successful test operation in the case of delivery with installation or assembly.
2. If the dispatch, delivery, start, execution of installation or assembly, acceptance in own plant or test operation is delayed due to reasons for which the purchaser is responsible or if the purchaser falls into default of acceptance for other reasons then the risk is transferred to the purchaser.

VI. Installation and assembly

The following provisions apply for the installation and assembly unless otherwise agreed in writing:

1. The purchaser must cover the costs of and provide the following in good time: a) all earth, construction and other ancillary works outside the industry including the specialists and assistants, construction materials and tools required for these, b) the consumer items and materials required for installation and commissioning such as scaffolding, lifting gear and other technical equipment, fuels and lubricants, c) energy and water at the place of use including connections, heating and lighting, d) sufficiently large, suitable, dry and lockable rooms on the installation site for storage of machine parts, equipment, materials, tools etc. and appropriate work and recreation rooms for the installation personnel including sanitary facilities appropriate to the circumstances; the purchaser must moreover take such measures to protect the property of the supplier and the installation personnel on the construction site as the purchaser would take to protect own property, e) protective clothing and protective devices that are required due to special circumstances on the installation site. Before the start of the installation work and without request the purchaser must provide the necessary information about the location of concealed power, gas and water lines or similar facilities as well as the required static information.
2. Before the start of installation or assembly the provisions and items required for commencement of the work must be present at the installation or assembly location and all preliminary work must have progressed sufficiently before the start of development such that the installation or assembly can be started and executed without interruption. Access roads and the installation or assembly place must be levelled and cleared.
3. If the installation, assembly or commissioning are delayed by circumstances for which the supplier is not responsible then the purchaser must cover the costs of the supplier or installation personnel for waiting time and additional travel required to a reasonable extent.
4. The purchaser must certify the duration of the working time of the installation personnel weekly and completion of the installation, assembly or commissioning immediately to the supplier.

GENERAL TERMS AND CONDITIONS OF TRADE

5. If the supplier requests acceptance of the delivery after completion then the purchaser must effect this within two weeks. It is equivalent to acceptance if the purchaser allows the two-week deadline to expire or – if applicable after an agreed test period – the delivery has been taken into use.

VII. Acceptance

The purchaser is not permitted to refuse acceptance of deliveries due to minor defects.

VIII. Material defects

The supplier is liable as follows for material defects:

1. All parts or services that display a material defect must be repaired, resupplied or provided a new free of charge at the choice of the supplier if the cause existed already at the time of the transfer of risk.
2. Claims for subsequent performance expire in 12 months from the start of the statutory limitation period; the same applies for rescission and reduction. This deadline does not apply if the law in accordance with §§ 438 par. 1 no. 2 (buildings and items for buildings), 479 par. 1 (right of recourse) and 634a par. 1 no. 2 (construction defects) of the German civil code (BGB) prescribes longer periods, in the case of intent, malicious concealment of the defect and non-compliance with a quality guarantee. The statutory provisions concerning expiry suspension, suspension and recommencement of the periods remain unaffected.
3. Notifications of defects by the purchaser must be made immediately in writing.
4. In the case of notifications of defects payments of the purchaser may be withheld to an extent that is in reasonable proportion to the material defects that have occurred. The purchaser may withhold payments only if a notification of defects is asserted concerning the justification of which there can be no doubt. No right of retention exists for the purchaser if the defect claims of the same have expired. If the notification of defects is unjustified then the supplier is entitled to demand compensation from the purchaser for the expenses incurred by the supplier.
5. The supplier must be granted the opportunity for subsequent performance within a reasonable period.
6. If the subsequent performance fails then the purchaser may – regardless of any damage compensation claims in accordance with no. 10 – withdraw from the contract or reduce the payment.
7. Claims for defects do not apply in the case of only minor deviation from the agreed quality, in the case of only minor impairment of usability, in the case of natural wear or damage that occurs after the transfer of risk as a result of incorrect or careless handling, excessive load, inappropriate operating equipment, defective construction work, unsuitable construction ground or particular external influences that are not preconditions under the contract and in the case of non-reproducible software faults. If modifications or repair works are performed incorrectly by the purchaser or by third parties then there are no defect claims for these and the resulting consequences.

8. The purchaser is obliged to check the received goods immediately for any deviations in quality or quantity; § 377 German commercial code (HGB) otherwise remains unaffected.
9. Recourse claims of the purchaser against the supplier in accordance with § 478 German civil code (BGB) (recourse of the operator) and § 445 a German civil code (BGB) (recourse of the seller) apply only to the extent to which the purchaser has made no agreements with the customer of the same above and beyond the statutory claims for defects.
- In the event that the item which was defective on transfer of risk in accordance with its nature and intended use has been installed in another object or affixed to another object the supplier owes compensation for the expense of removal of the defective and installation or affixing of the improved or supplied item (removal and installation costs) only in accordance with the following conditions:
- Only such removal and installation costs as concern the removal and installation or affixing of identical products which have been developed on the basis of standard market conditions and proven to the supplier by submission of appropriate documents at least in textual form are required. Claims above and beyond the required removal and installation costs and especially costs of consequential damages due to defects such as loss of profits including calculated profit markup, operating failure costs or additional costs for replacement procurement are not removal and installation costs and therefore also not eligible for compensation. If the expenses claimed are disproportionate in the individual case especially in relation to the purchase price of the items in defect-free condition taking into account the significance of the contractual non-compliance then the supplier is entitled to refuse compensation for the expenses. The supplier must be informed immediately in the event of occurrence of a guarantee claim.

10. Damage compensation claims of the purchaser due to a material defect are excluded. This does not apply in the case of malicious concealment of the defect, in the case of non-compliance with a quality guarantee, in the case of injury to life, body, health and in the case of a deliberate or grossly negligent breach of duty by the supplier and even in the case of § 439 par. 3 BGB. No change in the onus of proof to the detriment of the purchaser is associated with the above provisions. Further claims of the purchaser or claims of the purchaser other than those governed by this art. VIII due to a material defect are excluded.

IX. Commercial property rights and copyrights; defects of title

1. Unless otherwise agreed the supplier is obliged to provide the delivery free of commercial property rights and copyrights (hereafter: Property Rights) only in the state of the delivery location. If a third party makes justified claims against the purchaser due to infringement of Property Rights by deliveries made by the supplier and used in accordance with the contract then the supplier is liable to the purchaser as follows within the period specified in art. VIII no. 2: a) For the deliveries concerned the supplier will obtain a right of use at the expense of the same, amend them such that the Property Right is not infringed or replace them. If this is not possible for the supplier under reasonable conditions then the purchaser is entitled to the statutory rights of rescission or reduction. b) The obligation of the supplier to pay damage compensation is based upon art. XII.

c) The aforementioned obligations of the supplier apply only if the purchaser immediately informs the supplier in writing of the claims asserted by the third party, does not recognise an infringement and all defensive measures and settlement negotiations remain open to the supplier. If the purchaser ceases to use the delivery due to damage mitigation or other important reasons then the purchaser is obliged to advise the third party that the cessation of use is associated with no acceptance of a Property Right infringement.

2. Claims of the purchaser are excluded if the same is responsible for the Property Right infringement.
3. Claims of the purchaser are furthermore excluded if the Property Right infringement is caused by special requirements of the purchaser, by an application that was not foreseeable by the supplier or by the fact that the delivery is changed by the purchaser or used together with products not supplied by the supplier.
4. In the case of Property Right infringements the provisions of art. VIII nos. 4, 5 and 9 moreover apply accordingly for the claims of the purchaser governed by no. 1a).
5. If other defects of title exist then the provisions of this art. VIII apply accordingly.
6. Further claims of the purchaser or claims of the purchaser other than those governed by this art. IX against the supplier and the vicarious agents of the same due to a defect of title are excluded.

X. Reservation of implementation

1. The contractual performance is subject to the condition that it is impeded by no obstacles due to German, US American and other applicable national, EU or international regulations of foreign trade legislation and no embargos or other sanctions.
2. The purchaser is obliged to produce all information and Documents required for the export, transfer or import.

XI. Impossibility, contract amendment

1. If the delivery is impossible then the purchaser is entitled to demand damage compensation unless the supplier is not responsible for the impossibility. However the damage compensation of the purchaser is limited to 10% of the value of the respective portion of the delivery that cannot be used appropriately because of the impossibility. This does not apply if there is liability in cases of intent, gross negligence or due to injury to life, body or health; no change in the onus of proof to the detriment of the purchaser is associated with this. The right of the purchaser to withdraw from the contract remains unaffected.
2. If events in accordance with art. IV no. 2 a) to c) significantly alter the economic significance or content of the delivery or have a significant effect on the business of the supplier then the contract will be amended appropriately in accordance with the requirements of good faith. If this is economically unjustifiable then the supplier has the right to withdraw from the contract.

The same applies if required export licences are not issued or not usable. If the supplier wishes to exercise this right to withdraw then the same must notify the purchaser of this immediately after becoming aware of the scope of the event and even if an extension of the delivery period was initially agreed with the purchaser.

XII. Other damage compensation claims

1. Unless specified otherwise in these GTCT damage compensation claims of the purchaser regardless of legal grounds and particularly due to breaches of duty from the obligation relationship and from unlawful acts are excluded.
2. This does not apply if there is liability as follows: a) under the German product liability act, b) in case of intent, c) in case of gross negligence of owners, legal representatives or senior staff, d) in case of malice, e) in case of non-compliance with an accepted guarantee, f) due to culpable injury to life, body or health or g) due to culpable breach of essential contractual obligations. The damage compensation entitlement for breach of essential contractual obligations is limited however to the foreseeable damages that are typical of the contract unless another of the aforementioned cases exists.
3. No change in the onus of proof to the detriment of the purchaser is associated with the above provisions.

XIII. Place of jurisdiction and applicable law

1. The registered office of the supplier is the sole place of jurisdiction in the case of all disputes arising directly or indirectly from the contractual relationship if the purchaser is a trader. The supplier is however also entitled to take legal proceedings at the registered office of the purchaser.
2. This contract including its interpretation is subject to German law to the exclusion of the United Nations convention on contracts for the international sale of goods (CISG).

XIV. Binding nature of the contract

Even in the case of legal invalidity of individual provisions the contract remains binding in its remaining parts. This does not apply if adherence to the contract would represent unreasonable hardship for one party.

Status: 01.01.2018

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