

# Lighting Systems



**REGIOLUX**

# Lighting Systems

functional - effective - efficient

## Exclusion of Liability

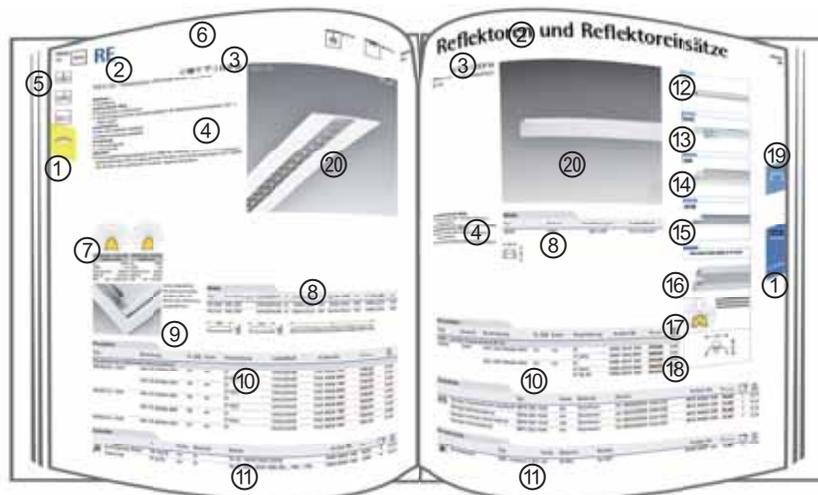
Illustrations, dimensions and weights in our catalogues, price lists and quotations are non-binding. Subject to technical changes, errors and color deviations. All luminaires have been designed for 230V 50Hz mains connection and ambient conditions according to DIN EN 60598 unless otherwise stated, and are supplied without lamps unless otherwise stated. Most of the indications with regard to certifications are presented in our catalogue in a general form. Verification with regard to products can be easily carried out on our website.

Because of the dynamics in the technical development especially in the field of LED modules and their drivers, the information in this paper can only be a snapshot of the current state and are therefore legally not binding. Please refer to our web site for current product specifications.

We point out that the orderer recognises our delivery and payment conditions unless he/she objects in writing when sending his/her order.

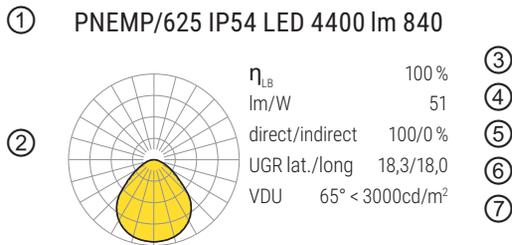


# Description of page layout



- ① Product group
- ② Luminaire family, type
- ③ Certification: Overview and explanation in Technical information chapter 8: 8.6 Certification, insulation class and protection rating
- ④ Description with regard to lighting technology, housing, miscellaneous
- ⑤ Indications with regard to ceiling systems
- ⑥ Reference to accessories pages and products in other product groups
- ⑦ Light distribution curve (LVK) with data with regard to lighting technology of the reference product.  
Explanations in the following area Explanations
- ⑧ Dimensional table and sectional drawings: Explanations of the variables in the following area Explanations
- ⑨ Detail image with explanation
- ⑩ Product table: Explanations of the abbreviations in the following area Explanations
- ⑪ Table with spare parts / accessories (if available): Explanations of the abbreviations in the following area Explanations
- ⑫ Combination quick-fit mounting system: Component mounting rail
- ⑬ Combination quick-fit mounting system: Component device mount
- ⑭ Combination quick-fit mounting system: Component light direction
- ⑮ Combination quick-fit mounting system: Component light direction insert
- ⑯ Quick-fit mounting system: Combination
- ⑰ Quick-fit mounting system: Light distribution curve of the combination, explanations in the following area Explanations
- ⑱ Quick-fit mounting system: Dimensioned drawing of the combination
- ⑲ Indication to the product area mounting rail / device mount / light direction
- ⑳ Product image with icons and indication for functions and features

## Explanation of lighting technological data



### 1. Configuration

Possible deviations of luminous flux between magnetic ballasts (Llb) and electronic ballasts (ECG) are not considered.

### 2. Luminous intensity distribution

Luminous intensity distribution curves shown in the catalogue are represented according to DIN 5032. Only both primary planes are displayed: 0°/180° planes (at right angles to luminaire axis) as a continuous line and 90°/270° (parallel to luminaire axis) as a dotted line. Curves are scaled to represent 1000 lumens of lamp luminous flux.

### 3. Light output ratios $\eta_{LB}$

Light output ratios specified for each luminaire are calculated from the relation of luminous flux  $\Phi_L(\tau)$  emitted from the luminaire with an ambient luminaire temperature  $\tau_a = 25^\circ \text{C}$  and further standardised conditions to the sum of measured luminous flux of the lamps with open distribution transferred individually to the luminaire ballast.

In the case of LED luminaires, the principle of absolute photometry is increasingly applied. In this case, the light output ratio is indicated with 100%. Additionally, the luminous flux is indicated in the form of the measured luminous flux of the luminaire.

### 4. Luminous efficiency

The luminous efficiency is the luminous flux of a bulb or luminaire related to its electrical power consumption.

In the case of LED luminaires presented according to the principle of absolute photometry (light output ratio 100%), the indication refers to the lumen output of the luminaire which is described by the ratio between luminous flux of the luminaire and system performance of the luminaire.

### 5. Direct and indirect light components

For evaluating the efficiency and lighting effect of a lighting system within a room, specification of the direct and indirect beam components is helpful.

### 6. Glare reduction according to UGR method

According to DIN EN 12464-1, not only is reflected glare considered but also direct glare within a specific room. As a standard evaluation system the UGR (Unified Glare Rating) method was introduced in Europe as part of the DIN EN 12464-1 standard. Details concerning the UGR method are described in the CIE 117 publication. The UGR values (lat. and long) of a lighting installation, determined according a table for the position of a standard viewer, are not permitted to exceed the value specified by the standard. In order to compare the direct glare of various luminaires, UGR values of a number of manufacturers are specified with reference to a so-called standard room. Please note that a correct comparison is only possible if all room conditions are identical. In addition it must be noted that UGR values for a real installation may significantly differ to those of the standard room.

Values given are based upon the following definitions.

Room dimensions:

Distance of eye level to luminaire level: H

Room width X = 4H

Room length Y = 8H

Standard reflection factors (0,7 ceiling; 0,5 walls; 0,2 floor)

Luminaire arrangement parallel to Y axis Luminaire distances:

Distance of luminaire to luminaire (spacing) S = 0,25H

Distance of luminaire to wall  $\frac{1}{2} S = 0,125H$

## Explanation of lighting technological data

### 7. Suitability for VDU workstations

Here, the suitability of luminaires for VDU workstations according to DIN EN 12464-1 is specified. The degree number means that the luminance in all luminaire planes beyond that angle does not exceed certain limitation values. Depending on screen quality and screen visualisation, the norm specifies different limitation values. In case of a positive display on screens with an own luminance (< 200 cd/m<sup>2</sup>), a maximum of 1500 cd/m<sup>2</sup> and in case of screens with a high luminance (> 200 cd/m<sup>2</sup>), a maximum of 3000 cd/m<sup>2</sup> is permissible.

## Control gear

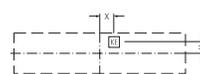
Abbr.	Description
ECG	Electronic ballast
Llb	Low-loss ballast
ind	Inductive, must be compensated on-site
multi	Multiwatt T5
ED	Electronic driver, not dimmable
EDM	Electronic driver Multi, not dimmable (8 or 16 adjustable lighting levels)
DALI	Electronic driver, DALI, dimmable
DALI DT8	Electronic driver, DALI, dimmable, change of light color (Tunable white)
LC.	Device with integrated LC components of special type
M.	Master unit Typ 1-N
S.	Sensor unit Typ 1-N
NL-B1, NL-B3	Emergency light single battery; 1=1h, 3=3h

# Explanations

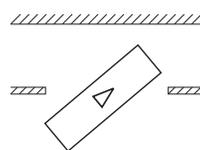
## Definition of measurement table variables

Abbr.	Description
A	Distance between the individual luminaires
A1	Fixing distance in case of single mounting
A2	Fixing distance for first or last luminaire in case of light run mounting
A3	Fixing distance for the middle luminaires or between the luminaires in case of light run mounting
A4	Fixing distance (width)
B	Width
D	Diameter
DA	Diameter of cut for recessed luminaires
DA <sub>b</sub>	Width of cut for recessed luminaires
DA <sub>L</sub>	Length of cut for recessed luminaires
DS min	Minimum ceiling thickness with suspended ceiling
DS max	Maximum ceiling thickness with suspended ceiling
Db	Sensor detection diameter
Dr	Sensor detection diameter ideal movement towards the sensor
Ds	Sensor detection diameter seated activity
Dt	Sensor detection diameter tangential movement parallel towards the sensor
Et	Mounting depth (necessary depth for luminaire mounting)
Et min	Minimum mounting depth (necessary depth for luminaire mounting during celing construction)
FB	Width of luminaire groundplate
FD	Diameter of luminaire groundplate
FL	Length of luminaire groundplate
H	Height
HS	Installation height of sensor
KB	Width of luminaire head or ballast box
KD	Diameter of luminaire head or ballast box
KE	Cable infeed
KH	Height of luminaire head or ballast box
KL	Length of luminaire head or ballast box
L	Length
L2	Additional length
MB	Modul (axes) width
ML	Modul (axes) length
P	Suspension length
Pmin	Minimum suspension length
Pmax	Maximum suspension length
P <sub>Sys</sub>	Luminaire system performance
T	Depth
W	Wall distance
X	Distance from middel of the luminaire to the electrical feed in (X direction = length)
Y	Distance from middel of the luminaire to the electrical feed in (Y direction = width)

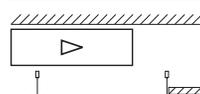
## Description of measurement table variables



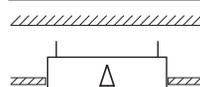
1. Positioning of electrical feed in.



2. Required installation depth "Et" for swivelling of luminaire in visible T rail constructions (lay-in luminaires). Required installation depth "Et" for swivelling luminaire and control gear (if applicable) through ceiling cut-out (clamp mounting).



3. Reduced installation depth "Et min" with aligning of luminaire above T rail construction (during ceiling construction).



4. Required installation depth "Et" for swivelling of mounting bracket (clamp mounting).

## Ceiling systems



Ceilings with visible T-rails



For concealed symmetrical rail constructions



For concealed asymmetrical rail constructions



For recessed ceilings



For panel ceilings, module 100, 150, 200

## Cross references



Reference accessories



Reference mounting rail installation



Reference mounting note



Reference product groups

## Icons / functions features



Configuraton with sensor available



Configuraton with emergency light unit available



Luminaires for HCL (human Centric Lighting)



Luminaires suitable for Advanced Services



Luminaires suitable for IoT (Internet of Things)



LED (included)



Beam angle

Materials	
Abbr.	Description
A03S-U	Recognised national cable type: measurement voltage 300 V to 300 V; Silicone rubber isolation material, heat-resistant to +180° C; Single-wire conductor, round
ABS	Acrylonitrile Butadiene Styrene Copolymerisate
Al	Aluminium
AlMgSi	Aluminium magnesium silicon (extruded section)
Cu	Copper
EPDM	Synthetic rubber
Glass	Glass
Glass matt	Matt glass
Glass (ESG)	Tempered single-pane safety glass
H03VV-F	Harmonised cable: measurement voltage 300 V to 300 V; Isolation material PVC, heat-resistant to +70° C; sheathing material PVC, heat-resistant to +70° C; fine-strand conductor, flexible
H05HH-F	Harmonised cable: measurement voltage 300 V to 500 V; Isolation material flat, divisible cable; sheathing material flat, divisible cable; fine-strand conductor, flexible
H05S-U	Harmonised cable: measurement voltage 300 V to 500 V; silicone rubber isolation material, heat-resistant to +180° C; single-wire conductor, round
H05V2-U	Harmonised cable: measurement voltage 300 V to 500 V; Isolation material PVC, heat-resistant to +90° C; single-wire conductor, round
H05VV-F	Harmonised cable: measurement voltage 300 V to 500 V; isolation material PVC, heat-resistant to +70° C; sheathing material PVC, heat-resistant to +70° C; fine-strand conductor, flexible
H07V2-U	Harmonised cable: measurement voltage 450 V to 750 V; isolation material PVC, heat-resistant to +90° C; single-wire conductor, round
Inox	Stainless steel
Inox V2A	Stainless steel (alloy type 1.4301 or X5CrNi18-10)
Inox V4A	Stainless steel (alloy type 1.4401 or X5CrNiMo17-12-2)
Mix	Diverse materials
PA	Polyamide
PC	Polycarbonate
PMMA	Polymethylmethacrylate (acrylic glass)
Polymer	plastic (not defined specifically)
Polymer clear	Plastic (crystal clear)
Reinforced polymer	Plastic (with admixture of reinforcing materials)
PS	Polystyrene
PVC	Polyvinyl chloride
St	Steel
StZn	Steel with zinc coating

Colour code	
Abbr.	Colour
al	aluminium
aeH	aluminium high gloss
aes	aluminium matt gloss
aen	aluminium natural anodized
ap	aluminium plate finish
am	anthracite metallic
bl	blue
bl/cr	blue chrome
ce	cream
cr	chrome
eg	brushed stainless steel
ge	yellow
ge/cr	yellow chrome
ga	grey
gr	green
hg	light grey
hgl	high gloss
kg	pebble grey, RAL 7032
kgm	pebble grey metallic, RAL 7032
kl	clear
me	metallike
op	opal white
og	orange
ro	red
sw	black, RAL 9005
si	silver
sg	silver-grey, RAL 9006
tz	translucent
tp	transparent
vw	traffic white, RAL 9016
ws	white
wa	white-aluminium, RAL 9006



# Light strips and furniture luminaires

ilia



▶261

▶262 ILG LED

IL



▶264

▶265 ILF T8  
▶265 ILF T8-1m

## from other chapters



Standing and  
wall-mounted luminaires

smile

▶ 206



MLS

▶ 209





# ilia

## ilia – functional LED light in a new form

- Universal LED light strip with evenly lit diffuser
- Application variety in the field of slim diffuser luminaire
- Fixing slides make installation particularly easy
- Internal and external conduit for easy loop-through wiring



### Type overview

- ▶ ILG Diffuser, opal direct diffuse distribution



LED A+ 650°C F M CE IP 20

**Mounting:**

- Ceiling surface
- Suspended
- Wall mounting
- Furniture mounting

**Housing:**

- Sheet steel

**Lighting technology ILG:**

- Diffuser, opal; PC plastic
- Lighting characteristic direct diffuse distribution

**Lamp:**

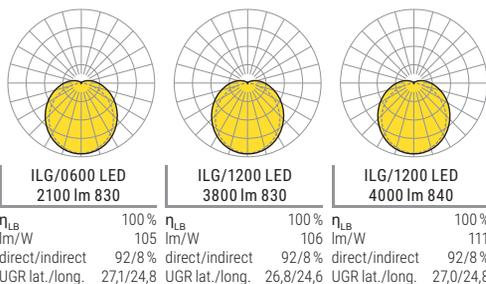
- LED 50000h L80/B10
- CRI ≥ 80 / 3000K, 4000K

**Switching:**

- 1 Controller
- Electronic driver
- 230V 50Hz

**Accessories:**

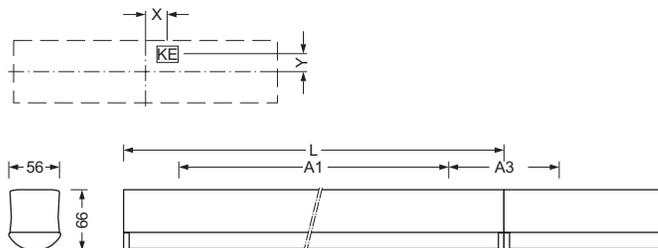
- With suspended mounting, suspension accessories to be ordered separately, or steel rope to be provided by the customer.



$\eta_{LB}$ lm/W	100% $\eta_{LB}$ 105 lm/W	100% $\eta_{LB}$ 106 lm/W	100% $\eta_{LB}$ 111 lm/W
direct/indirect	92/8%	92/8%	92/8%
UGR lat./long.	27,1/24,8	26,8/24,6	27,0/24,8

**Dimensions**

Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
ILG/0600	LED	580 x 56 x 66	425	155	83 / 0
ILG/1200	LED	1140 x 56 x 66	700	440	0 / 0
ILG/1500	LED	1420 x 56 x 66	1000	420	0 / 0



**Products**

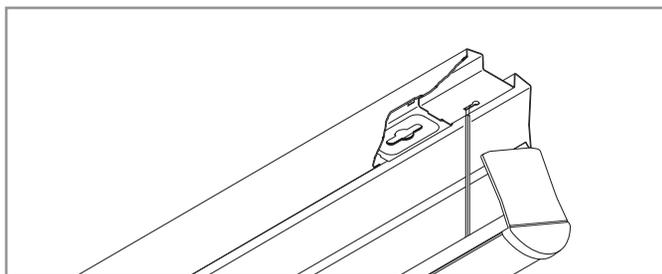
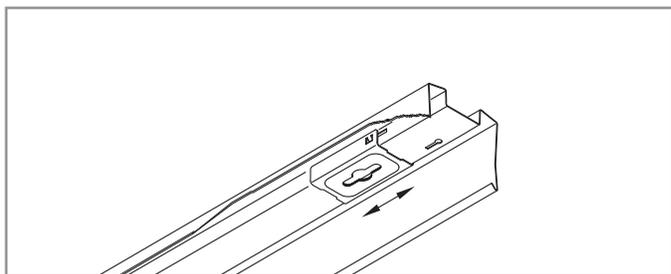
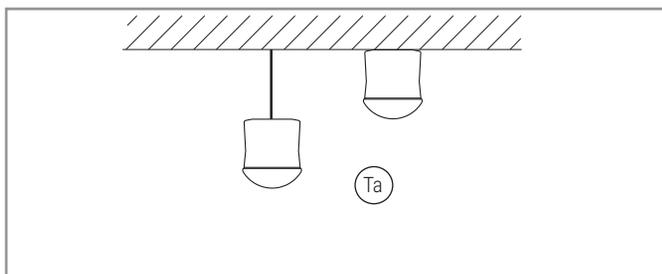
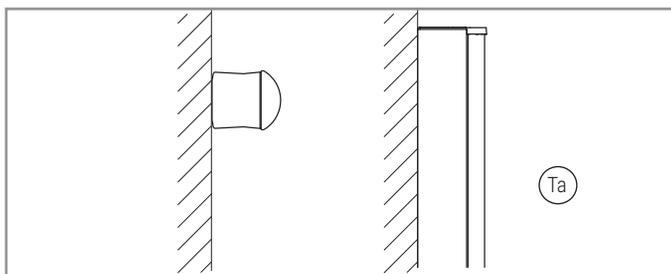
Type	Lamps	lm/W	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Diffuser, opal direct diffuse distribution</i>								
ilia-ILG/0600	LED 2100 830	105	20	vw	ED	580 x 56 x 66	1617 1014 100	0,95
	LED 2200 840	111	20	vw	ED	580 x 56 x 66	1617 1024 100	0,95
ilia-ILG/1200	LED 3800 830	106	36	vw	ED	1140 x 56 x 66	1617 2014 100	1,64
	LED 4000 840	111	36	vw	ED	1140 x 56 x 66	1617 2024 100	1,64
ilia-ILG/1500	LED 5000 830	106	47	vw	ED	1420 x 56 x 66	1617 5014 100	2,06
	LED 5300 840	112	47	vw	ED	1420 x 56 x 66	1617 5024 100	2,06

**Accessories**

Type	Colour	Material	Details	Art. no.	kg
<b>Mounting</b>					
Chain suspension	KAH	ws	PA	Suspension hook for ILG, KLKF LED	5910 2000 100 2 0,10

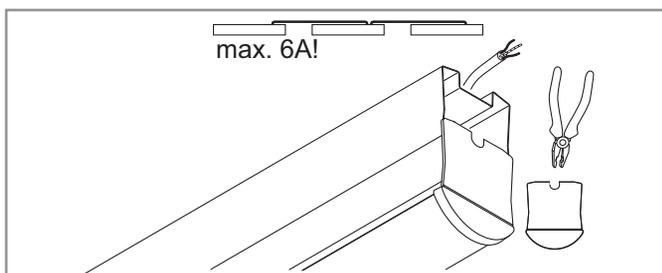
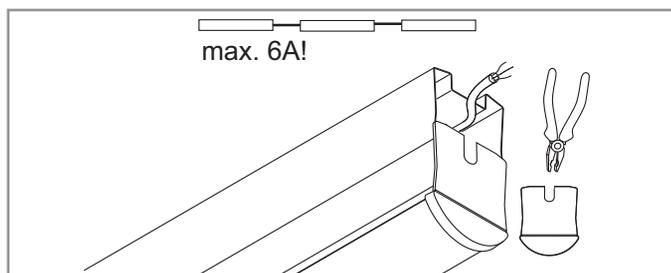
# Mounting note ilia

ilia



**Fastening sliders:**  
These are an installation aid. If the cover is pressed against the fastening surface via the screws in half way position, the fastening sliders can be moved so that the cover is positioned upon the head of the screws.

**Suspension threads:** allow one man installation.



**Inner conduit:**  
In inner of cover with pre-punched cable retainers for 5 x 1.5 mm<sup>2</sup> max. 6A through-wiring.

**Outer conduit:**  
For outer e.g. NYM through-wiring to max. 5 x 1.5 mm<sup>2</sup> upon cover.

**Note:**  
\* Ta max. in accordance with DIN-EN 60598 +25°



# ILF

## ILF – multifunctional and practical

- High-quality universal light strip for T8 lamps
- The fixing slide and twist-lock catch make installation particularly easy
- Internal and external conduit for easy loop-through wiring
- Lighting accessories available

## Type overview

- ▶ ILF Open distribution direct/indirect general diffuse



**Mounting:**

- Ceiling surface
- Wall mounting

**Housing:**

- Sheet steel

**Lighting technology ILF:**

- Open distribution
- Lighting characteristic  
direct/indirect general diffuse

**Lamp:**

- For fitting with lamp(s) T8, T8-1m

**Switching:**

- 1 Controller
- Electronic ballast
- 230V 50Hz

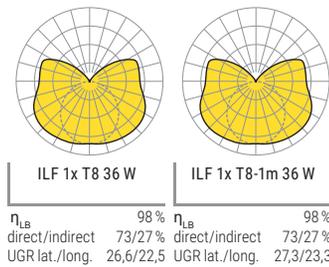
**Accessories:**

- See chapter "Quick-fit mounting system" for other lighting accessories.

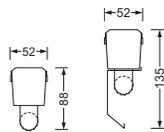


Thanks to the standardised dimensions and positions of the twist-lock catches, ILF luminaires can be fitted with the lighting components of the SDT system.

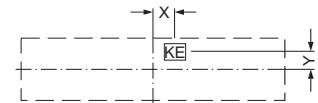
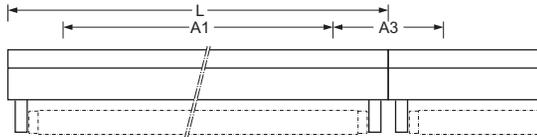
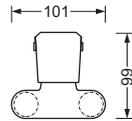
With the SB side cover, the luminaire produces an asymmetrical light distribution which screens the view of the lamp.



ILF T8 1x ... + SB



ILF T8 2x ...



## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg	
<i>Open distribution direct/indirect general diffuse</i>								
ILF	T8 1x18W	19	vw	ECG	625 x 52 x 88	1060 1184 100	0,92	
	T8 1x30W	31	vw	ECG	930 x 52 x 88	1060 1304 201	1,30	
	T8 1x36W	36	vw	ECG	1235 x 52 x 88	1060 1364 100	1,45	
	T8 1x58W		55	vw	ECG	1535 x 52 x 88	1060 1584 100	1,78
					ECG EM-B1 <sup>1)</sup>	1535 x 52 x 88	1060 1584 209	2,37
					ECG EM-B3 <sup>1)</sup>	1535 x 52 x 88	1060 1587 700	2,37
	T8 2x18W	38	vw	ECG	625 x 101 x 92	1060 2184 100	1,00	
	T8 2x36W	72	vw	ECG	1235 x 101 x 92	1060 2364 100	1,53	
	T8 2x58W		110	vw	ECG	1535 x 101 x 92	1060 2584 100	1,80
					ECG EM-B1 <sup>1)</sup>	1535 x 101 x 92	1060 2584 202	2,50
ECG EM-B3 <sup>1)</sup>					1535 x 101 x 92	1060 2587 700	2,50	
T8-1m 1x36W	36	vw	ECG	1005 x 52 x 88	1060 1504 100	1,28		

<sup>1)</sup> : Luminaires with emergency light unit single battery 1h + 3h

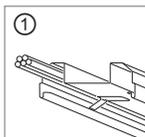
## Accessories

Type	Colour	Material	Details	Art. no.	kg
<i>Lighting technology</i>					
Lateral cover	SB T8 1/36	vw	St	for ILF T8 1/36	1 0,84
	SB T8 1/58	vw	St	for ILF T8 1/58	1 0,97
<i>Electrical technology</i>					
Through-wiring cable	FLVA T8 58	ws	H05V2-U	5x1.5mm <sup>2</sup> for ILF	1 0,16
<i>Mounting</i>					
Chain suspension	KH	me	St	for ILF, PA..., PC...	1 0,03

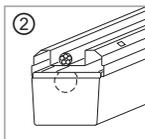
# Mounting note ILF

## ILF

- ① Inner conduit:  
In inner of cover with pre-punched cable retainers for FLVA, NYAW 5 x 1.5 mm<sup>2</sup> through-wiring.

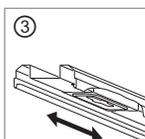


- ② Outer conduit:  
For outer NYM through-wiring to max. 5 x 1.5 mm<sup>2</sup> upon cover.

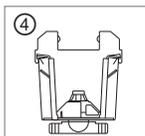


Suspension threads: allow one man installation.

- ③ Fastening sliders:  
These are an installation aid. If the cover is pressed against the fastening surface via the screws in half way position, the fastening sliders can be moved so that the cover is positioned upon the head of the screws.



- ④ Twist lock catch:  
Connects section to cover without use of tools and acts as support for additional lighting technology. Drop-protection: holds section and cover securely together.





# Application pictures

Photographer	Project	Page
Paul Zanre, Milton Bridge UK	South Rotunda, Glasgow UK	1
Boris Golz, Arnsberg DE	IGS - Integrierte Gesamtschule Nienburg, Nienburg, DE	8
Inga Paas, Köln DE	Werner-Wicker-Klinik, Bad Wildungen-Reinhardshausen, DE	10
Jana Wenderoth, Kassel DE	Firmenzentrale medDV, Fernwald, DE	12
Hermann Kaufmann, Euro Unitech GmbH, Wien AT	Vienna-City-Marathon, Wien, AT	17
Inga Paas, Köln DE	Goldener Ring, Düsseldorf, DE	18
denisismagilov	fotolia.com	22
Jeff Baumgart	fotolia.com	25
Frank Freihofer, Kitzingen DE	KÄFER Stahlhandel, Gochsheim, DE	26
Christian Tech, Fulda DE	Autohaus Herold, Heiligenstadt Ofr. DE	29
Jana Wenderoth, Kassel DE	Einkaufsmarkt, Sandershausen DE	29
Christian Tech, Fulda DE	ZEE - Zentrum für Elektromobilität und Energieeffizienz, Barleben DE	29
Hermann Kaufmann, Euro Unitech GmbH Wien AT	Steuerkanzlei Emsenhuber, Melk, AT	30
Frank Freihofer, Kitzingen DE	ESN Deutsche Tischtennis Technologie GmbH, Hofheim, DE	37
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Frank Freihofer, Kitzingen DE	Fristo Getränkemarkt, Butzbach, DE	268
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T 09525 89-250  
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lichtplanung@regiolux.de

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T 09525 89-260  
F 09525 89-261  
service@regiolux.de



## ► Nord

### 01 Mecklenburg-Vorpommern

Gritt Schlemminger  
M 0151 14733968  
gritt.schlemminger@regiolux.de

### 02 Hamburg, Schleswig-Holstein

Marina Koch  
M 0160 7177746  
marina.koch@regiolux.de

Michael Brott  
M 0160 7177747  
michael.brott@regiolux.de

### 03 Bremen

Thomas Meyer Lichtberatung  
Hans-Mohrman-Str. 19  
28357 Bremen  
T 0421 20076166  
t.meyer-licht@t-online.de

### 04 Berlin, Brandenburg

ELLUX Vertriebs GmbH  
Fritschestraße 27/28  
1. OG, Aufgang C  
10585 Berlin-Charlottenburg  
T 030 772035-0  
info@ellux.de

### 05 Hannover

Detlef Sikora GmbH  
Lägenfeldstraße 7  
30952 Ronnenberg  
T 0511 43804-0  
F 0511 43804-49  
hannover@sikora.de

Ralf Reichel  
M 0160 7177738  
ralf.reichel@regiolux.de

### 06 Bielefeld

scharkon Lichtkonzepte GmbH  
Kruppstraße 47  
59227 Ahlen  
T 02382 96868-0  
F 02382 96868-29  
info@scharkon.de

### 07 Sachsen-Anhalt

Detlef Sikora GmbH  
Gewerbegebiet Süd Nr. 2  
39443 Staßfurt  
T 039266 931-0  
F 039266 931-15  
stassfurt@sikora.de

### 08 Düsseldorf

Daniel Pangritz  
M 0160 7177745  
daniel.pangritz@regiolux.de

Andre Schäuble  
M 0160 7177737  
andre.schaeuble@regiolux.de

### 09 Kassel

Jörg Wenderoth  
Industrivertretung  
Platz des Friedens 8  
34225 Baunatal  
T 0561 949371-0  
info@wenderoth-iv.de

### 10 Köln

Wolfgang Küsgen  
Industrivertretungen GmbH  
Immendorfer Straße 1  
50354 Hürth-Effern  
T 02233 80803-0  
F 02233 80803-29  
info@kuesgen-gmbh.de

### 11 Wipperfürth

Martin Rösgen  
Industrivertretungen  
Julius-Doms-Straße 15  
51373 Leverkusen  
T 0214 6026555  
info@ivroesgen.de

### 14 Koblenz

bernd oedekoven gmbh  
gebäudetechnik & licht  
Rudolf-Diesel-Straße 11  
56220 Urmitz  
T 02630 9635-0  
F 02630 9635-35  
info@oedekovengmbh.de

### 17 Saarbrücken

bernd oedekoven gmbh  
gebäudetechnik & licht  
Außenbüro Trier/Saarbrücken  
54421 Reinsfeld  
M 0176 19635502  
fjk@oedekovengmbh.de

## ► Süd

### 12 Sachsen

Jürgen Bergmann  
M 0172 8670049  
juergen.bergmann@regiolux.de

Jörg Irmisch  
T 03771 3650910  
M 0172 8670062  
F 03771 3650909  
joerg.irmisch@regiolux.de

### 13 Thüringen

Jens Schlothauer  
T 036077 933587  
M 0151 14733955  
F 036077 933588  
jens.schlothauer@regiolux.de

### 15 Rhein-Main

Markus Schimmer  
M 0151 14733980  
markus.schimmer@regiolux.de

### 16 Nordbayern

Peter Gröger  
T 09722 944826  
M 0172 8670045  
F 09722 944827  
peter.groeger@regiolux.de

Stephan Althaus  
T 0921 98008087  
M 0160 7177731  
F 0921 80029426  
stephan.althaus@regiolux.de

### 18 Bayern-Mitte

Bernhard Zirkelbach  
T 09528 950103  
M 0172 8670047  
F 09528 950163  
bernhard.zirkelbach@regiolux.de

### 20 Stuttgart

Frank Bossert e.Kfm.  
Industrivertretungen  
Industriegebiet Aldingen  
Hofener Weg 17  
71686 Remseck  
T 0711 577669-60  
F 0711 577669-66  
info@bossert-weissinger.de

### 21 Südbayern

Stephan Schlatzer  
Lichtberatung  
Thalhammerstraße 12  
83075 Bad Feilnbach - Au  
T 08064 909495  
F 08064 909496  
Schlatzer@DieLichtberater.de

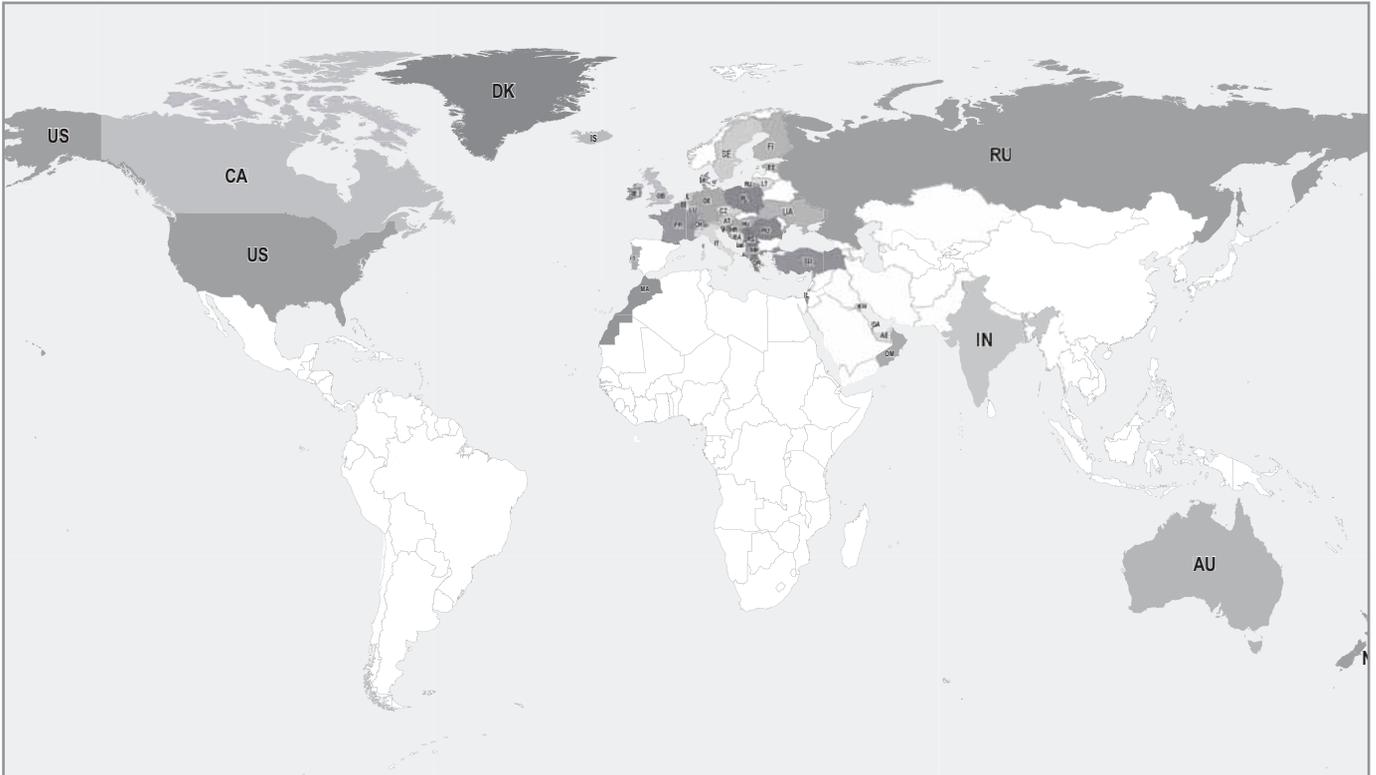
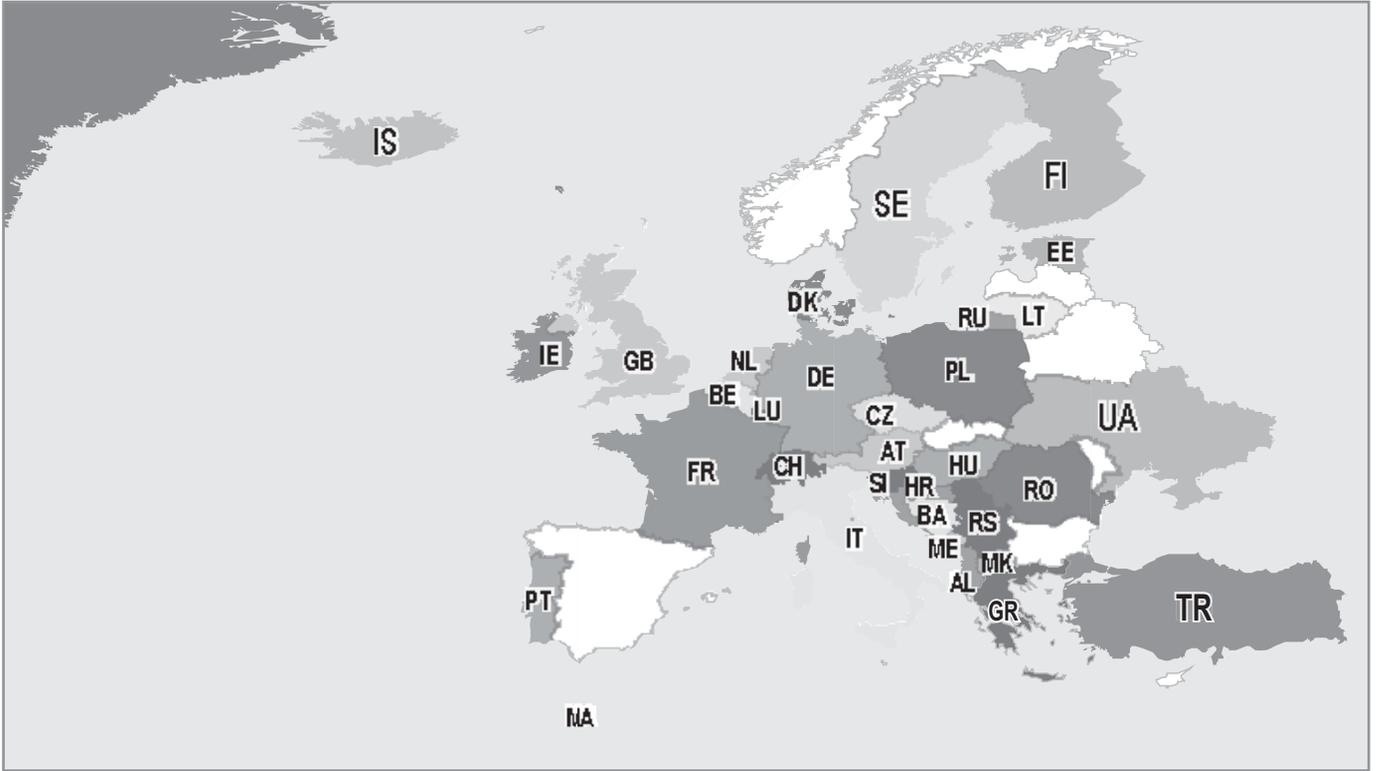
Dieter Beier  
T 08435 9448966  
M 0151 14733958  
F 08435 9448572  
dieter.beier@regiolux.de

### 22 Mannheim, Nordbaden-Pfalz

Licht-Team Handelsvertretungen OHG  
Birkenweg 7  
67346 Speyer  
T 06232 606910  
F 06232 606915  
info@das-licht-team.de

### 23 Südbaden

Fred Abel GmbH  
Vertretungen der Elektro-Industrie  
Im Ebnet 1  
79238 Ehrenkirchen  
T 07633 9501-0  
F 07633 9501-30  
info@fredabel.de



## ► International

### Headquarter

Regiolux GmbH  
Hellinger Straße 3  
D 97486 Königsberg  
T +49 9525 89 0  
F +49 9525 89 7  
info@regiolux.de  
www.regiolux.de

### Orders and Offers

T +49 9525 89-220  
F +49 9525 89-444  
export@regiolux.de

### Technical Support

T +49 9525 89-260  
F +49 9525 89-261  
service@regiolux.de

### Lighting Design

T +49 9525 89-260  
F +49 9525 89-261  
lightingdesign@regiolux.de

### Sales branch Poland

Regiolux Polska Sp.z o.o.  
ul. Długosza 48-60  
51-162 Wrocław  
T +48 608 693 716  
www.regiolux.pl  
biuro@regiolux.pl

**Local Contact Partners:** You can find the contact data for your local contact partners always up-to-date on the internet at [www.regiolux.de](http://www.regiolux.de)

### Sales Managers

Daniel Hau  
T +49 9525 89-657  
F +49 9525 89-444  
M +49 160 7177734  
daniel.hau@regiolux.de

Belgium, Finland, France, Israel, Italy,  
Luxembourg, Middle East, Morocco, Sweden,  
Turkey

Stefan Nestmann  
T +49 9525 89-438  
F +49 9525 89-444  
M +49 172 8670054  
stefan.nestmann@regiolux.de

Bulgaria, Czech Republic, Denmark,  
Hungary, Netherlands, Poland,  
Slovakia

Torsten Kiesslich-Koecher  
T +49 9525 89-450  
F +49 9525 89-444  
M +49 172 8682620  
torsten.kiesslich@regiolux.de

Australia, Canada, Cyprus, Estonia, Greece,  
India, Ireland, Latvia, Lithuania, New Zealand,  
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Reinhold Pfister  
T +49 9525 89-451  
F +49 9525 89-444  
M +49 172 8670050  
reinhold.pfister@regiolux.de

Austria, Croatia, Iceland,  
Montenegro, Norway, Serbia,  
Switzerland

For countries not specified above, please refer to: T +49 9525 89220, export@regiolux.de





# REGIOLUX

Regiolux GmbH  
Hellinger Straße 3  
D 97486 Königsberg  
T +49 9525 89 0  
F +49 9525 89 7  
info@regiolux.de  
www.regiolux.de