

Emergency Lighting

CATALOGUE 2014

CENTRALISED LUMINAIRES



Gruppo Beghelli

Since more than 35 years Beghelli PRÄZISA has established a business and being a competent partner for lighting designers, qualified electrical contractors, wholesalers and the industry. Activities were concentrated in designing and delivery of emergency lighting systems, either central battery powered or self contained but also in the sector of general lighting, particularly luminaries of high protection grades and finally high efficient light sources. Over the years Beghelli PRÄZISA has set the pace for the market with new and innovative products.

The first automatic test system for emergency lighting installation has already been launched in the mid 1980s. These products did comply with the requirements for test systems combined with centralised monitoring and control units in accordance with EN 62034.

In the early 1990s Beghelli PRÄZISA developed and manufactured high frequency ballasts for high intensity discharge lamps up to 1.000 watts power consumption and received approvals from prominent light source suppliers like General Electric and Radium. This opened a new market segment for daylight depending dimming of lamps.

The actual product offer of Beghelli PRÄZISA contains also a range of innovative products like:

Centralised power supply stations for high intensity discharge lamps offering continuous power supply in case of mains failure.

Automatic test equipment for communication, monitoring and control between even a large number of emergency lighting and exit sign luminaries on a wireless basis.

Since more than 10 years Beghelli PRÄZISA is a member of the worldwide acting Gruppo Beghelli, based in Monteveglio (BO), Italy operating factories in Europe, America and Asia.

Beghelli S.p.A. has been founded almost 30 years ago by Gian Pietro Beghelli. Meanwhile about 93% of the Italian population are familiar with the Beghelli brand or the products. The portfolio comprises development, manufacturing and distribution of emergency lighting and general lighting systems but also light sources, intruder alarm systems and photovoltaic plants.

Beghelli puts the focus on developing new products especially on minimising the use of natural resources and the protection of the environment. The result to be achieved shall be the reduction of energy consumption and increased service life.

Another task is the reduction of labour time for mounting and installation of the products by clever design. Many new products combine a number of these criteria. Just to illustrate these achievements find below two examples from emergency and general lighting product ranges

Pluraluce

Exit signs and escape route luminaries

These luminaries for either centrally based battery systems or self contained batteries take advantage of the LED technology and the shallow design. The primary advantages are the compact design, the reduced battery capacity and the increased service life.

The design of the exit signs follow the concept of framed displays combined with light guide panels to achieve high luminance levels and an optimal distribution according to EN 1838.

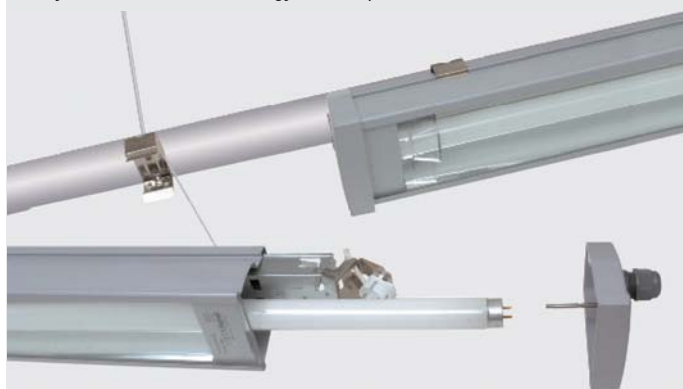


Basis for escape route luminaries are high power LEDs with integral reflector and either single lenses when asymmetric light distribution is required or double lenses when symmetric distribution combined with wide spacing between fittings is appreciated.



Acciaio

Vandal proof dust- and waterproof fittings. These luminaries are available as single, twin or four lamp versions with medium wide or narrow light distribution optical systems. A specially designed mounting and installation equipment reduce labour cost. In addition the highly efficient optical systems may contribute to lower energy consumption.



Further advantages are the possibility of converting luminaries either ex-work or on site into emergency lighting units and the optional conversion kit for installation in Ex-proof zones (II 3G Ex nA IIB T4 / II 3D Ex tD A22 T100).

Beghelli around the World

Beghelli S.p.A.
Italy
www.beghelli.it

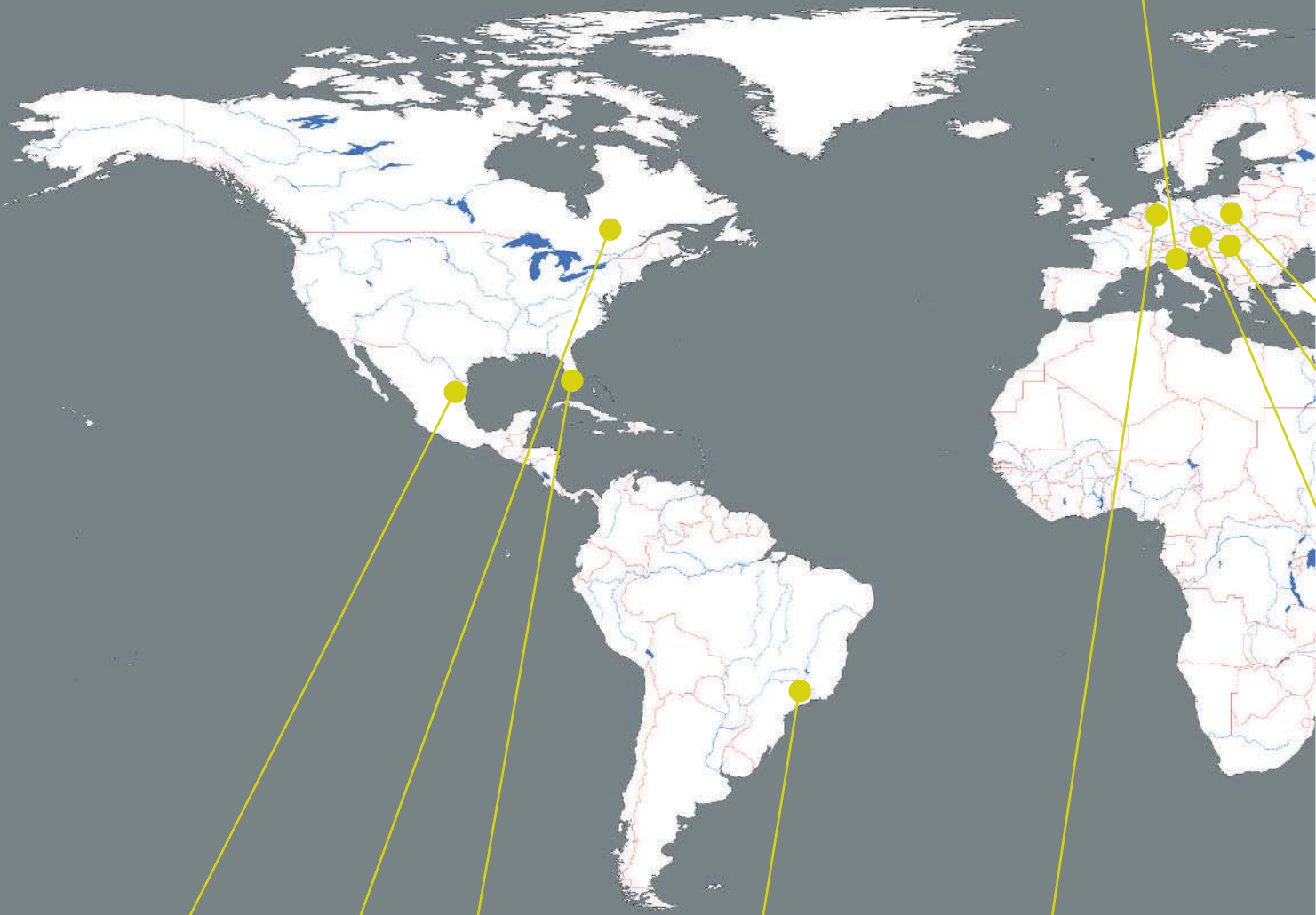
Beghelli de Mexico
Mexico
www.beghellimexico.com

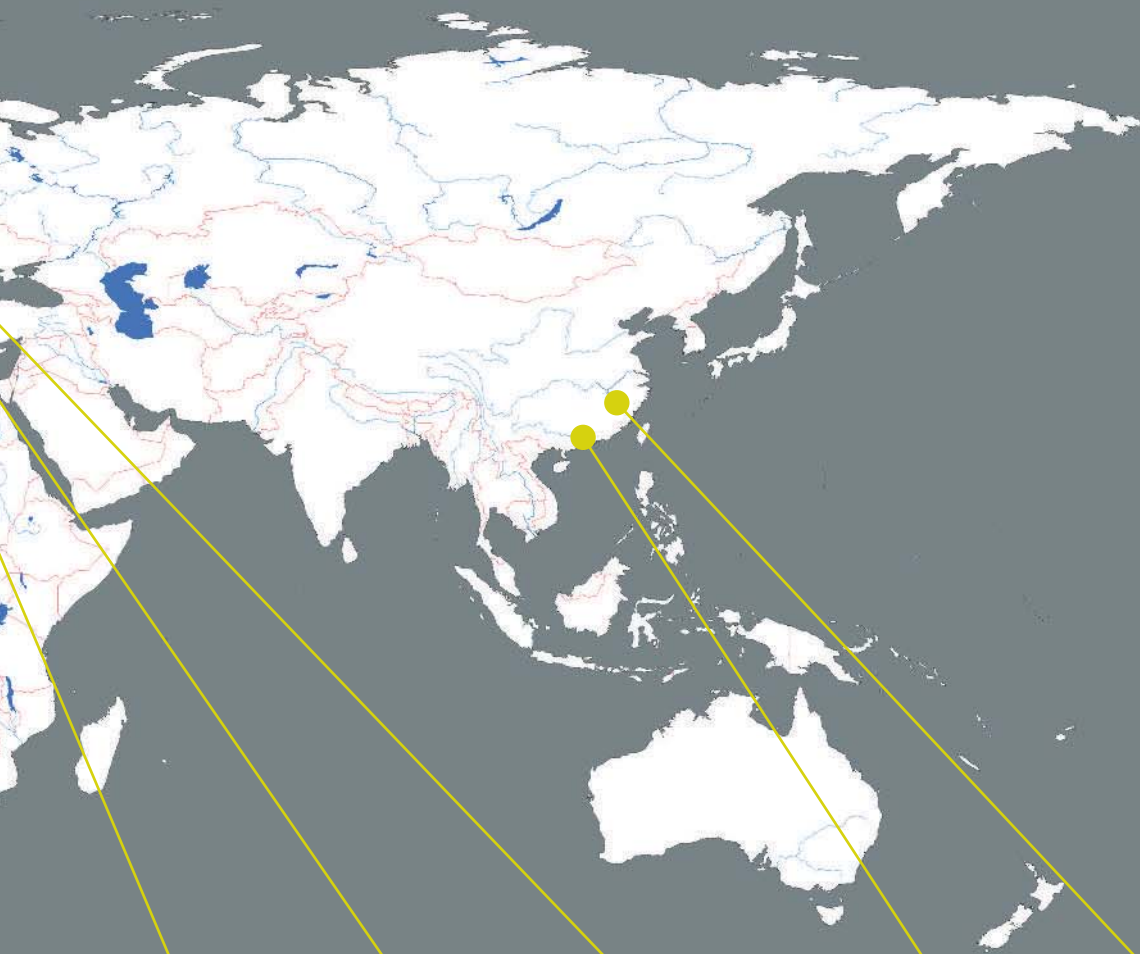
Beghelli Canada Inc.
Canada
www.beghellicanada.com

Beghelli USA Inc.
Florida
www.beghelliusa.com

Beghelli Brasil
Brasile
www.beghellibrasil.com

Beghelli Präzisa
Germany
www.beghelli.de





Beghelli Elplast
Czech Republic
www.beghelli.cz

Beghelli Hungary
Hungary
www.beghelli.hu

Beghelli Polska
Poland
www.beghelli.pl

Beghelli China
People's Republic of China
www.beghellichina.com

Beghelli Asia Pacific Ltd.
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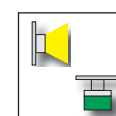
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Pluraluce - efficient and modern emergency lighting

State of the art, modern exit and emergency luminaires, code compliant:

- Compact design for optimal integration into the architecture of the buildings
- Flexible mounting options to suit the purpose of different building sections
- Efficient luminaires to reduce installation costs by being able to specify smaller central battery systems, reduced number of emergency luminaires and use of light sources with lower energy consumption and reduced CO² emissions
- Long service life of modern light sources to reduce maintenance cost

Pluraluce exit signs, emergency luminaires and monitoring modules for converted fittings present the perfect solution for all these requirements

Pluraluce exit sign luminaires in shallow frame design and light direction panel. Exit sign screens single or double faced may be changed according to requirements.

- High efficiency technology to achieve luminance levels >500 Cd/m²
- Luminaires suitable with accessories for 7 different mounting and installation applications
- Versions for central battery operation available

15mm Flat-Design



LED-Frame



Wall mounting



Ceiling mounting

- 7 different mounting and installation options for single or double faced signaling



Recessed wall mounting



Recessed ceiling mounting



Wire suspension mounting

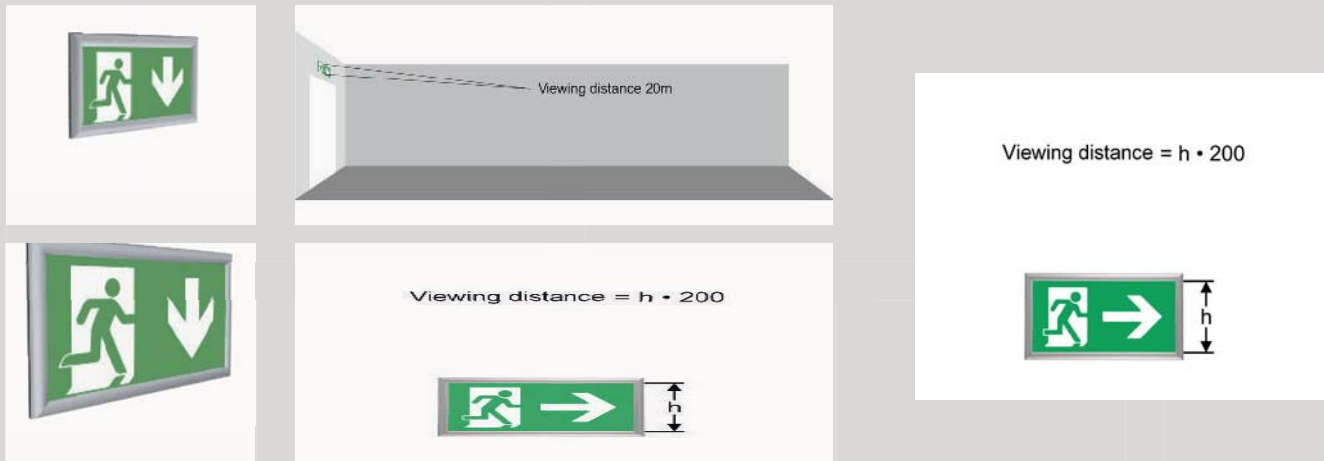


Pendant rod mounting



Wall bracket mounting

Escape route lighting with 2 different viewing distances



Reduced energy and maintenance cost and lower CO² emissions

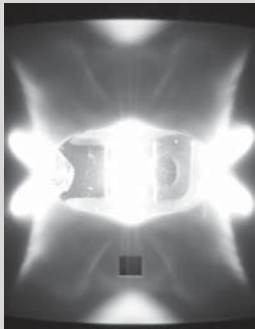
Installation of exit sign luminaires equipped with LEDs instead of fluorescent lamps offers advantages for the operator because of reduced

energy consumption and maintenance cost and finally save the environment by lower CO² emissions.

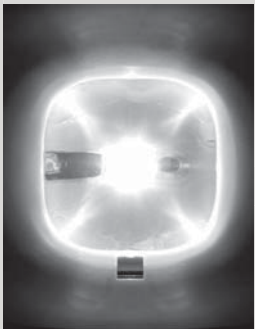
Pluraluce - efficient and modern emergency lighting

Pluraluce emergency lighting provides full illumination in a compact design, equipped with high power LEDs. Special twin lenses suitable for asymmetric light distribution or 2 interchangeable single lenses for symmetrical distribution, a perfect solution for escape routes or area lighting.

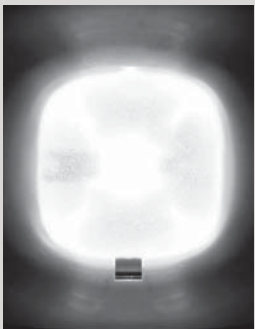
- High efficiency technology
- Optimized light distribution
- Escape routes or area lighting solutions available
- 4 different mounting and installation options available
- Versions for central battery operation available



Double lens for ceiling mounted luminaires providing asymmetric light distribution to illuminate escape routes



Single lens for ceiling mounted luminaires providing symmetric area light distribution for anti-panic illumination



Wide beam lens for wall mounted luminaires with symmetric light distribution to illuminate escape routes



32mm Flat-Design



High-Power-LED



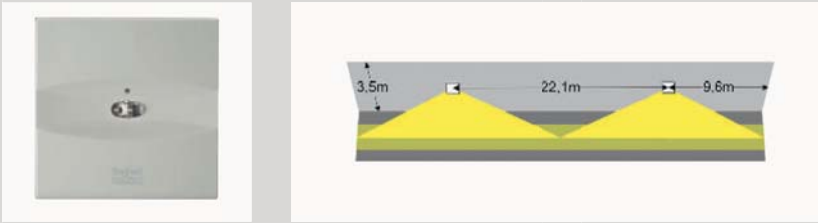
Surface ceiling and wall mounting



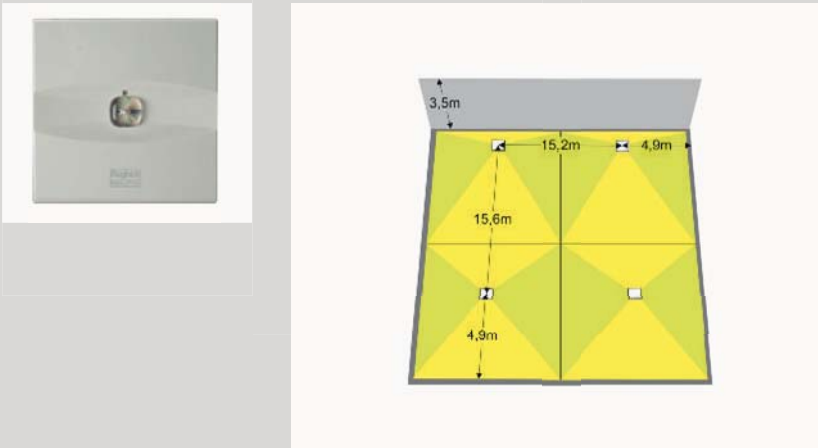
Recessed ceiling and wall mounting

4 different mounting and installation options to illuminate escape routes and 2 different options for area lighting

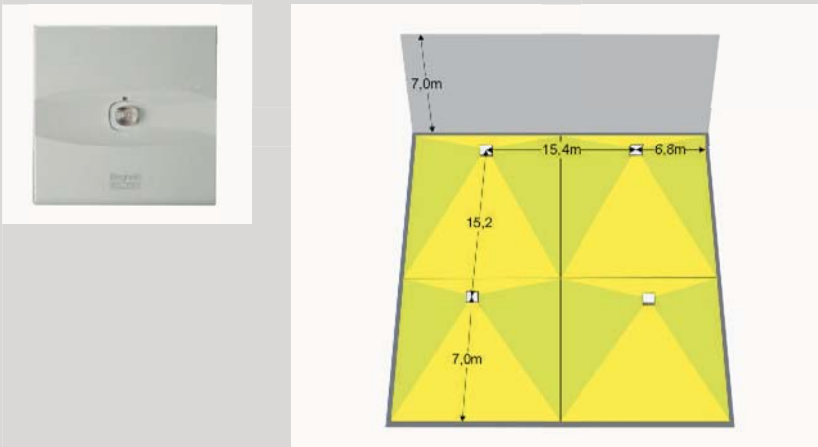
Escape route lighting with asymmetric light distribution, recommended mounting height 3.5m



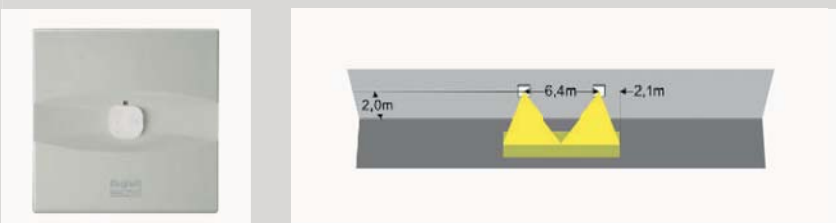
Anti-panic lighting with symmetric light distribution, recommended mounting height < 3.5m



Anti-panic lighting with symmetric light distribution, recommended mounting height > 3.5m < 7.0m



Escape route lighting with asymmetric light distribution, diffused (wall mounting), recommended mounting height 2.0m





Pluraluce - efficient and modern emergency lighting

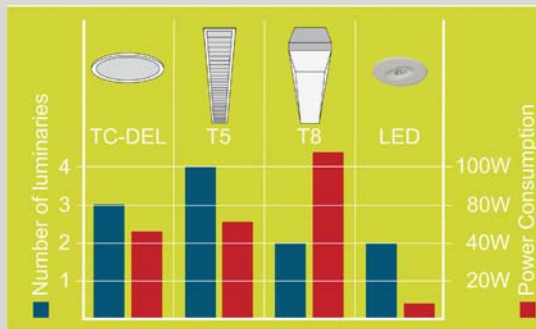
Reduce the quantity of luminaires and power consumption

Individual luminaires of the general lighting are still preferred as combined emergency luminaires for illumination of the escape routes, f. i. downlights on corridors, louvre luminaires in office or showrooms as well as dust and waterproof luminaires in production halls or warehouses. There the mounting height of the luminaires is often low and the power of the lamps high. This leads to a high power consumption of the

luminaires and small distances between the luminaires.

The example of an escape route of 30m length and 2m width at a mounting height of 3m clarifies this situation. Through the alternative use of a Pluraluce emergency luminaire with asymmetric light distribution a reduction of the luminaire quantity and consequently lower power consumption is possible








luminaire		TC-DEL 18W	T5 14W	T8 58W	LED 2.5W
luminaire distance		6.4m	4.1m	8.7m	9.2m
		14.3m	9.0m	17.3m	19.7m
luminaire quantity		3	4	2	2
Power consumption (single)		19.0W	16.0W	55.0W	5.0W
Power consumption (total)		57.0W	64.0W	110.0W	10.0W



Reduction of battery capacity and charging energy

The reduction of energy consumption and number of luminaires reduces the battery capacity and charging energy considerably. In an installation (see example) of 50 single faced and 25 double faced exit sign luminaires the battery capacity may be reduced by 82.9% (1hr duration) or

81.3% (3hrs duration). Also the charging energy may be reduced by 50% (1hr duration) or 80% (3hrs duration).

luminaire								
	T5 8W	T5 8W	TC-DEL 18W	T5 14W	T8 58W	LED 1.6W	LED 3.0W	LED 2.5W
luminaire quantity	50	25	150	200	100	50	25	100
Power consumption (single)	6.8W	6.8W	19.0W	16.0W	55.0W	3.0W	5.4W	5.0W
Power consumption (total)	340W	170W	2.500W	3.000W	5.000W	150W	135W	500W
Battery capacity	1h		33Ah	44Ah	70Ah			12Ah
	3h		90Ah	100Ah	150Ah			28Ah
charging power	1h		244V/2A	244V/4A	224V/4A			244V/2A
	3h		244V/6A	244V/6A	244V/10A			244V/2A

Cost reductions for mounting and installation

Also expenses for mounting and installation may be reduced. Although it may be necessary to install additional Pluraluce emergency luminaires the total number of emergency luminaires is lower. Certainly the in-

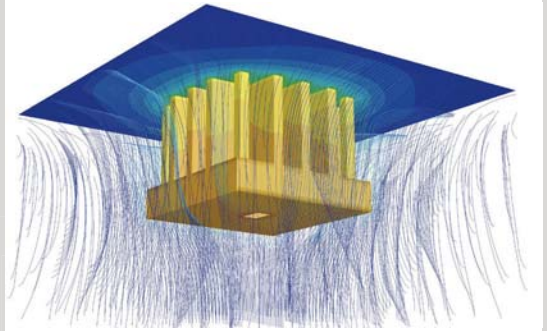
stallation of self contained battery systems or the installation of control modules for central battery systems are saved. Also the replacement of multi-lamp HF ballasts by single lamp HF ballasts for emergency operation is no longer required.

The Compact Pluraluce modules with High Power LEDs are specially designed for converting general lighting into emergency lighting fixtures. Featuring: asymmetrical light distribution or 2 symmetrical single lenses.

A Quick clip in system for attaching to any T5 or T8 fluorescent luminaire.

- High efficiency technology
- Easy and quick installation
- Ideal luminosity distribution
- Suitable for escape route and area lighting
- Versions for central battery systems available

Long lifetime through optimised heat dissipation



Kit with:

Asymmetric double lens

Symmetric single lens mounting height: up to 3.5m

Symmetric single lens mounting height: from 3.5m to 7.5m



+

Version for central supply system with Alog or Sleb



Example: mounting in louvre luminaire attached with clip to the lamp (T5 or T8)



example: mounting in diffuser luminaire attached with screws to the reflector



Available versions

Luminaires for central battery systems

These luminaires will be powered by a centrally installed system NZBVA, NZBVE, NGBVA or NGBVE according to EN 50171, with or without surveillance and control modules¹.



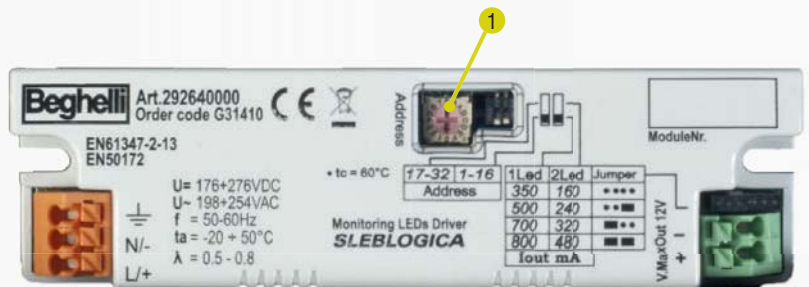
Version EVG (high frequency ballast)

Luminaire with HF ballast without surveillance and control module, to be powered by central battery systems.

Version Sleb

Luminaire with HF ballast with surveillance and control module, Sleb to be powered by central battery systems. Automatic functional tests of the electronic system and selective report of any irregularities.

Manual addressing of luminaires by dip switch **1** in the module and automatic identification by the central battery and control system.



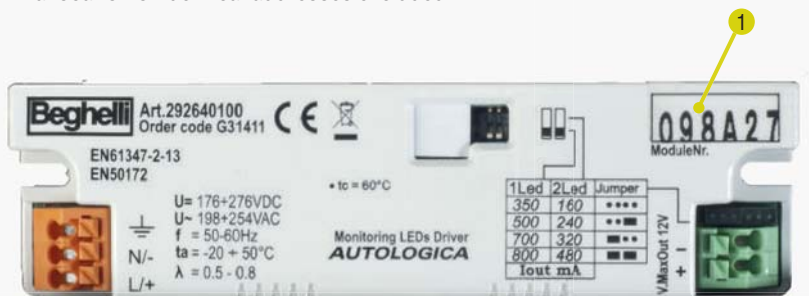
Version Alog

Luminaire with HF ballast with surveillance and control module, Sleb to be powered by central battery systems. Automatic functional tests of the electronic system and selective report of any irregularities.

Automatic addressing of luminaires without switch **1** in the module providing automatic identification by the central supply system.

Advantage:

- allocation of identical addresses excluded



¹ Luminaires with surveillance module and automatic test system Logica NEA to be operated by a second mains input (f.i. diesel generator, separate mains input) available on request

Combined emergency luminaires

In certain projects single luminaires of the general lighting are often designed to light up the escape routes as combined emergency luminaires, f. i. in corridors and staircases of administration buildings, hotels or hostels as well as in production and warehouses, logistics centers or closed carparks.

Depending on the battery system used for the emergency lighting monitoring, modules for central supply systems have to be installed in the luminaires of the general lighting for this purpose.

This installation on site might sometimes turn into a problem. On the one hand in compact luminaires space is rare for an additional emergency power supply module. On the other hand the existing 2-, 3- or 4-flame hf-ballasts need to be replaced and supplemented by another single ballast for installation of a monitoring module in 2-, 3- or 4-flame luminaires. In the latter the lamp is often operated with high power in mains and 100 percent luminous flux in battery mode. This usually leads to a high power consumption of the battery and is only economical at extremely large mounting heights.

As a manufacturer of luminaires for general lighting Beghelli PRÄZISA offers various integrated solutions. For the above mentioned projects, typical luminaires with installed the monitoring and control modules Sleb resp. Alog for a central supply system are available. Also highly efficient solutions with LEDs are employed in certain luminaires. With those a considerable reduction of the required battery capacity may be obtained especially when luminaires are powered by a central supply system.

Details related to the products can be found in the catalogue **General lighting – Dust and waterproof luminaires** and in separate product data sheets.

Integrated solutions



Acciaio LED

IP66

Luminaire with LED in high efficiency technology with specular reflector

Body: sheet steel/aluminium

Pane: tempered glass

LED96 : 45W / 3850lm

LED144: 63W / 5600lm

Up to 50% less energy consumption in comparison with T5 or T8 lamp

LED

kWh

Emergency lighting version

Integrated Sleb or Alog module

- for mounting heights > 7.5m

Up to 50% less battery capacity in comparison with T5 or T8 lamp

ZV

↓

Acciaio T5 / T8

IP66

Luminaire in high efficiency technology with specular reflector

Body: sheet steel/aluminium

Pane: tempered glass

1 x 28W, 49W, 54W or 80W

2 x 28W, 49W, 54W or 80W

1 x 18W, 36W or 58W

1 x 18W, 36W or 58W

T5

T8

Emergency lighting versions:

Optional emergency lighting cap

- for mounting heights < 5m

ZV

Up to 95% lower battery capacity in comparison with T5 or T8 lamp

↓

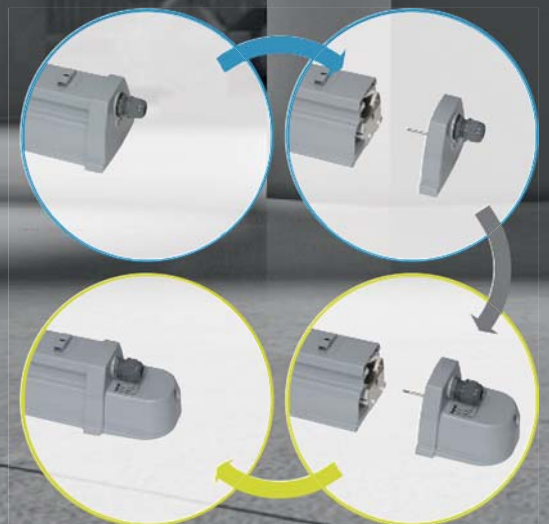


Emergency lighting cap Acciaio

Stand-alone emergency luminaire with monitoring and switching module¹ Sleb or Alog for central supply system. Assembly with high power LED 1W and lens.

Advantage: quick and easy conversion resp. upgrade – also on site

¹ suitable for Acciaio T5 / T8



Dust and waterproof luminaires for industrial and commercial areas

PS110 / PS100

IP65

Luminaire with specular reflector

Body: polycarbonate
 Diffuser: polycarbonate
 Toggles: stainless steel

1 x 28W, 35W, 49W or 54W

T5

1 x 18W, 36W or 58W

T8

Emergency lighting versions:

Integrated Sleb or Alog module
 • for mounting heights > 7.5m



BS111 / BS101

IP65

Luminaire with standard reflector

Body: polycarbonate
 Diffuser: polycarbonate
 Toggles: polyester resin

1 x 28W, 35W, 49W or 54W

T5

1 x 18W, 36W or 58W

T8

Emergency lighting versions:

Integrated luminaire module Pluraluce
 • for mounting heights < 7.5m



Up to 90% lower battery capacity in comparison with T5 or T8 lamps



Luminaire module Pluraluce

Stand-alone luminaire module with monitoring and switching module Sleb or Alog. Assembly with high power LED 2.5W, reflector and single lens for symmetric light distribution.



Solutions for contemporary architecture or rough conditions

Exit sign and emergency lighting luminaires with stainless steel bodies

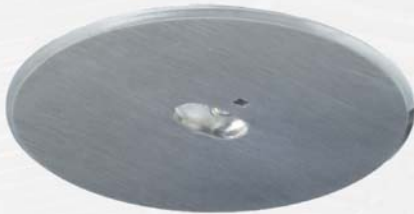
In particular projects it is compulsory to comply with special criteria. Whether architectural buildings require a clear design or industrial buildings provide chemical or corrosive atmosphere luminaires with stainless steel bodies may provide a suitable solution.

Beghelli PRÄZISA offers a number of luminaires with stainless steel bodies. Many of them also with high protection grade either for outdoor purposes or installation in rough conditions

Pluraluce

Emergency lighting luminaires for recessed ceiling mounting

IP42



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Multi-D

Exit sign luminaires for ceiling surface or wall mounting, recessed ceiling mounting, pendant and bracket mounting

IP21



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Pluraluce65

IP65

Emergency lighting luminaires for recessed or surfaced ceiling mounting

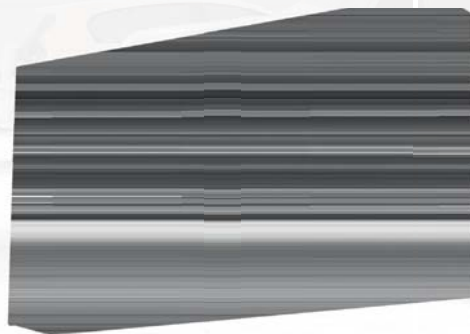


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Kubus65

IP65

Exit sign and emergency lighting luminaires for ceiling surface or wall mounting, pendant and bracket mounting



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Triangle

Emergency lighting luminaires for wall mounting

IP66



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Pluraluce

Exit sign luminaire designed as shallow frame display. Integrated LED and light guide panel provides optimised light levels according to EN 1838 (> 500 cd/m²). Single or double faced exit signs available, may be changed without tools. Quick fix system for easy mounting and installation.

Versions available: wall surface and recessed (single faced), ceiling surface and recessed, pendant and bracket suspension (double faced)

Special features:

- High efficiency technology for optimised light output ratio and energy consumption
- Low power consumption during emergency operation reduce battery capacity required
- Long lamp life minimizes maintenance cost
- Versions with 2 different visibility distances available



Technical data

Mounting options:
wall surface and recessed, ceiling surface and recessed, pendant and bracket suspension

Body:

Sheet steel, grey (RAL 7035) (wall mounted version)

Polycarbonate, grey (RAL 7035) (ceiling mounted and suspended)

Frame:

Aluminium, anodised

Film:

Methacrylate, printed

Protection:

IP40 (wall)

IP41 (ceiling, pendant, bracket)

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring

Central supply

Mains supply:

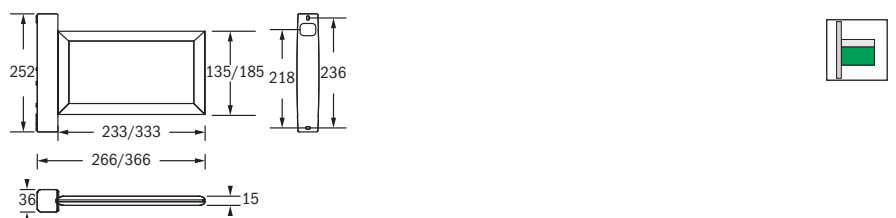
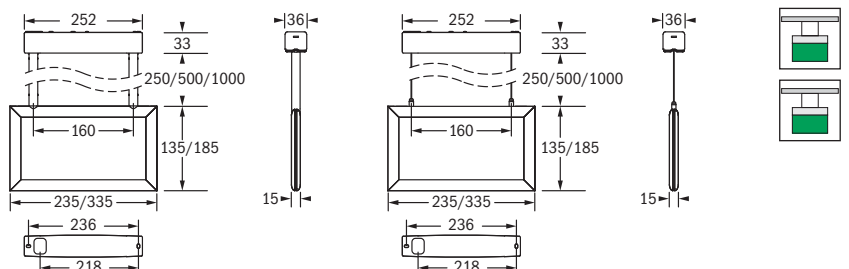
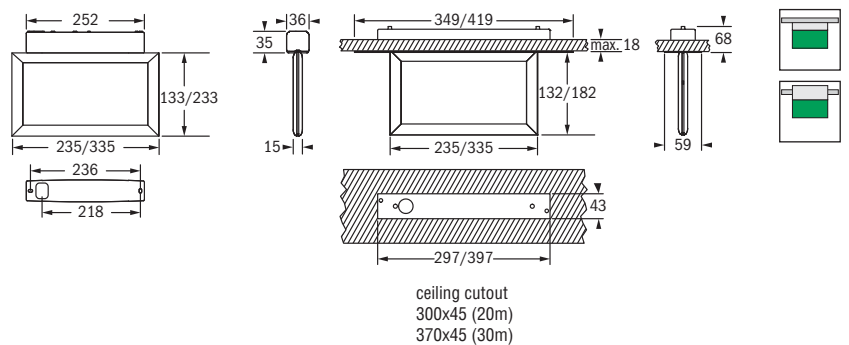
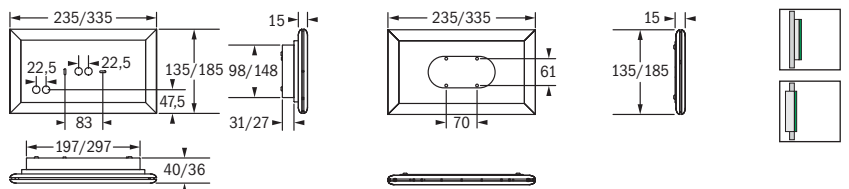
198V–254V/50Hz

Battery supply:

176V–254V

Ambient temperature:



-10 to +40°C










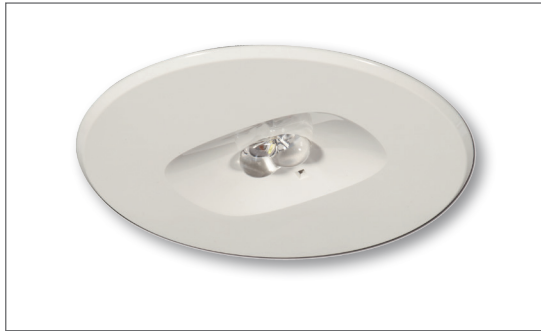
Order code	VD	Lamp	Power consumption		EVG	Sleb	Alog
			AC	DC			
Wall mounted / recessed (single faced escape route lighting) ¹							
TB16723	20m	LED 1.0W (16)	4.5VA	2.5W	x		
TB16729	20m	LED 1.0W (16)	4.5VA	2.5W		x	
TB16731	20m	LED 1.0W (16)	4.5VA	2.5W			x
TB16722	30m	LED 1.6W (24)	5.0VA	3.0W	x		
TB16728	30m	LED 1.6W (24)	5.0VA	3.0W		x	
TB16730	30m	LED 1.6W (24)	5.0VA	3.0W			x
Ceiling surface / recessed mounted, pendant and bracket mounted (double faced escape route lighting) ²							
TB16713	20m	LED 2.1W (32)	6.0VA	3.8W	x		
TB16719	20m	LED 2.1W (32)	6.0VA	3.8W		x	
TB16721	20m	LED 2.1W (32)	6.0VA	3.8W			x
TB16712	30m	LED 3.2W (48)	7.0VA	5.4W	x		
TB16718	30m	LED 3.2W (48)	7.0VA	5.4W		x	
TB16720	30m	LED 3.2W (48)	7.0VA	5.4W			x

¹ Recessed wall mounting requires installation box for solid walls or hollow walls f.i. Kaiser Elektro two gang box order no. 1656-02 or 9062-02 (to be sourced locally). Information available from www.kaiser-elektro.de

² For surface mounted and all suspended versions, please order required accessories separately.

Fitting supplied complete with		
Order code	VD	Description
VD 20m	VD 30m	
E16770	E16779	Kit of exit sign films (single faced) 
E16771	E16780	Kit of exit sign films (double faced) 

Accessories to be ordered separately		
Order code	VD	Description
VD 20m	VD 30m	
FB19384	FB19386	Kit for recessed ceiling mounting
FB19380	FB19380	Pendant rod: 250mm
FB19381	FB19381	Pendant rod: 500mm
FB19382	FB19382	Pendant rod: 1000mm
FB19383	FB19383	Wire suspension: 2000mm
FB19385	FB19387	Concrete ceiling box (recessed ceiling mounting)
E16772	E16781	Exit sign film 
E16773	E16782	Exit sign film 
E16774	E16783	Exit sign film 
E16775	E16784	Exit sign film 
E16776	E16785	Exit sign film 
E16777	E16786	Exit sign film 
E16778	E16787	Exit sign film 



Pluraluce

Emergency luminaire in a shallow design with high power LEDs, integrated reflector and special optical system. Double lens for asymmetric light distribution (illumination of escape routes) or single lens for symmetric light distribution (illumination of areas), changeable for low (up to 3 mtrs) or high (up to 7 mtrs) mounting level. Quick fix system for easy mounting and installation.

Versions available: surface/recessed wall mounting, surface/recessed ceiling mounting. Versions for recessed installation with remote gearbox (protection IP20).

Special features:

- High efficiency technology to optimise the light output ratio and power consumption
- Reduced number of luminaires based on extremely spacing between luminaires (~22m for h = 3.5m)
- Reduced battery capacity by low power consumption in DC mode
- Minimized maintenance costs based on a long lamp life



Technical data

Mounting options:

Surface/recessed wall mounting, surface/recessed ceiling mounting

Body:

Sheet steel

Cover:

Polycarbonate, white (RAL 9010)¹

Protection:

IP40 (surface wall mounting)

IP41 (surface ceiling mounting)

IP42 (recessed ceiling mounting)

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring

Central supply

Mains supply:

198V–254V/50Hz

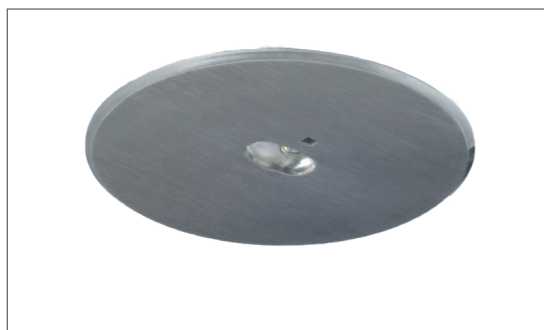
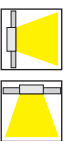
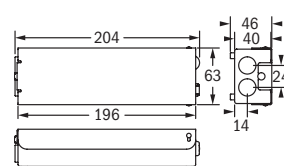
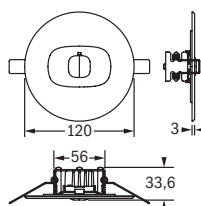
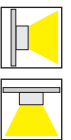
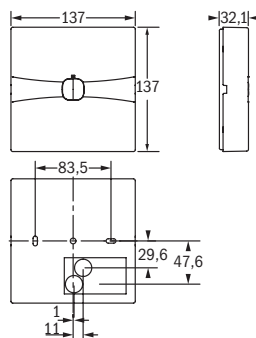
Battery supply:

176V–254V

Ambient temperature:

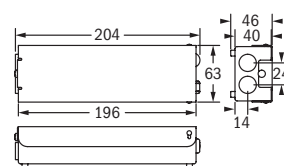
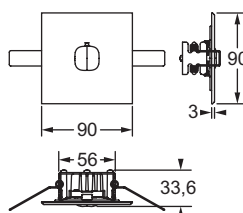
-10 to +40°C

¹ Cover in other colors on request



Wall or ceiling cutout:
80mm diameter

suitable for ceiling thickness from 2mm to 15mm



Wall or ceiling cutout:
80mm diameter

suitable for ceiling thickness from 2mm to 15mm

Order code	Lamp	Power consumption		Ballast lumen (Battery mode)	EVG	Sleb	Alog
		AC	DC				
Ceiling mounted suitable for escape route lighting							
TB16739	LED 2.5W	6.0VA	5.0W	165lm	x		
TB16745	LED 2.5W	6.0VA	5.0W	165lm		x	
TB16747	LED 2.5W	6.0VA	5.0W	165lm			x
Ceiling surface mounted for illumination of areas with 2 changeable lenses							
TB16738	LED 2.5W	6.0VA	5.0W	181lm	x		
TB16744	LED 2.5W	6.0VA	5.0W	181lm		x	
TB16746	LED 2.5W	6.0VA	5.0W	181lm			x
Recessed ceiling mounted for exit route lighting ^{1/2}							
TB16755	LED 2.5W	6.0VA	5.0W	165lm	x		
TB16761	LED 2.5W	6.0VA	5.0W	165lm		x	
TB16763	LED 2.5W	6.0VA	5.0W	165lm			x
Recessed ceiling mounted for illumination of areas with 2 changeable lenses ^{1/2}							
TB16754	LED 2.5W	6.0VA	5.0W	181lm	x		
TB16760	LED 2.5W	6.0VA	5.0W	181lm		x	
TB16762	LED 2.5W	6.0VA	5.0W	181lm			x

¹ For concrete recessed mounting optional installation box is required, f.i. brand Spotbox, article no. 85100.

² For recessed ceiling mounting please order square cover or stainless steel round cover separately.

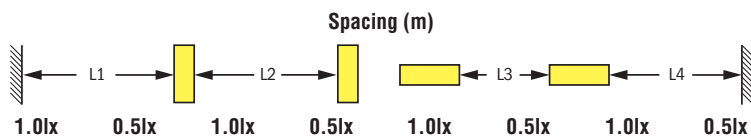
Accessories to be ordered separately

Order code	Description
F95807	Narrow beam lens for ceiling / recessed ceiling mounted luminaires (area lighting) for escape route lighting - mounting height > 7.5m
F95808	Narrow beam lens for ceiling / recessed ceiling mounted luminaires (area lighting) for area lighting - mounting height > 7.5m
F95812	Sheet steel square cover, white RAL 9010 for asymmetric light distribution (escape route lighting)
F95811	Sheet steel square cover, white RAL 9010 for symmetric light distribution (area lighting)
F95804	Stainless steel round cover for asymmetric light distribution (escape route lighting)
F95803	Stainless steel round cover for symmetric light distribution (area lighting)
F95802	Lens for symmetric light distribution for ceiling / recessed ceiling mounted luminaires (area lighting) for wall mounting or recessed wall mounting
F95805	IP42 kit only for ceiling mounting



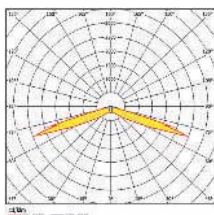
Type of lamp Light distribution diagram

Mounting height (m)
Wall mounted



Versions for escape route lighting

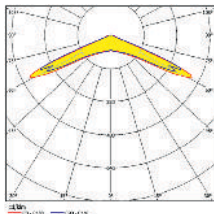
TB16739
TB16745
TB16747
TB16755
TB16761
TB16763



2.5	7.7	-	16.7	-	3.6	-	1.2	-
3.0	9.2	-	19.7	-	3.6	-	1.2	-
3.5	9.6	-	22.1	-	3.6	-	1.2	-
4.0	10.4	-	24.6	-	7.5	-	1.1	-
4.5	8.8	-	25.8	-	7.5	-	0.9	-
5.0	2.3	-	20.8	-	3.4	-	0.6	-

Versions for area lighting - mounting height < 3.5m

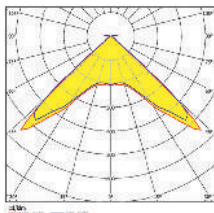
TB16738
TB16744
TB16746
TB16754
TB16760
TB16762



2.5	-	5.6	-	12.0	-	11.6	-	5.3
3.0	-	5.6	-	14.0	-	13.7	-	6.1
3.5	-	5.0	-	15.2	-	15.6	-	5.0
4.0	-	3.6	-	13.5	-	13.7	-	3.0
4.5	-	1.5	-	17.6	-	12.9	-	1.5
5.0	-	-	-	-	-	-	-	-

Versions for area lighting - mounting height > 3.5m and < 7.5m

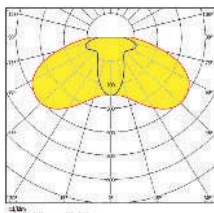
TB16738
TB16744
TB16746
TB16754
TB16760
TB16762



2.5	-	-	-	-	-	-	-	-
3.0	-	-	-	-	-	-	-	-
3.5	-	-	-	-	-	-	-	-
4.0	-	4.4	-	9.4	-	9.1	-	4.4
4.5	-	5.0	-	10.5	-	10.2	-	4.8
5.0	-	5.4	-	11.5	-	11.3	-	5.4
6.0	-	6.2	-	13.5	-	13.3	-	6.2
7.0	-	6.8	-	15.4	-	15.2	-	7.0
7.5	-	1.1	-	11.6	-	12.3	-	1.1

Wall mounted version

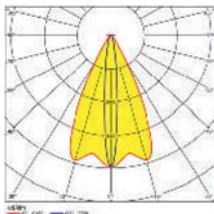
F95802
+
TB16738
TB16744
TB16746
TB16754
TB16760
TB16762



1.5	-	-	-	-	3.9	-	1.4	-
2.0	-	-	-	-	4.2	-	1.5	-
2.5	-	-	-	-	2.9	-	1.4	-
3.0	-	-	-	-	-	-	-	-
3.5	-	-	-	-	-	-	-	-
4.0	-	-	-	-	-	-	-	-
4.5	-	-	-	-	-	-	-	-
5.0	-	-	-	-	-	-	-	-

Versions for escape route lighting - mounting height > 7.5m

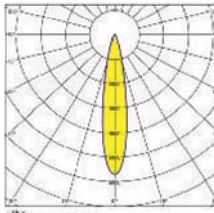
F95807
+
TB16738
TB16744
TB16746
TB16754
TB16760
TB16762



7.5	4.7	-	10.9	-	5.3	-	1.9	-
10.0	5.8	-	13.1	-	5.3	-	2.0	-
12.5	6.4	-	15.1	-	5.5	-	1.8	-
15.0	7.3	-	17.0	-	5.6	-	1.6	-
17.5	7.8	-	18.6	-	5.5	-	1.5	-
20.0	8.1	-	20.1	-	5.2	-	1.1	-
25.0	0.9	-	19.6	-	4.7	-	-	-
30.0	-	-	14.2	-	3.3	-	-	-

Versions for area lighting - mounting height > 7.5m

F95808
+
TB16738
TB16744
TB16746
TB16754
TB16760
TB16762



7.5	-	2.8	-	7.3	-	7.3	-	2.8
10.0	-	3.3	-	8.1	-	8.1	-	3.3
12.5	-	3.5	-	8.9	-	8.9	-	3.5
15.0	-	3.7	-	9.6	-	9.6	-	3.7
17.5	-	3.7	-	10.0	-	10.0	-	3.7
20.0	-	3.9	-	10.4	-	10.4	-	3.9
25.0	-	3.8	-	11.0	-	11.0	-	3.8
30.0	-	3.6	-	11.3	-	11.3	-	3.6

Pluraluce-Modul

Conversion kit for general lighting fittings without amending the internal wiring. Module with high power LED and integral reflector and special optical lens system, either asymmetrical light distribution (escape route lighting) or symmetrical light distribution (area lighting). Lenses for low ceiling heights (up to 3 mtrs) or high ceilings (up to 7 mtrs). Quick fix system enables easy mounting and installation with attachment clip (to be fixed on the lamp) or single connection (to be fixed f.i. on the reflector). Versions available: To be supplied as conversion kit with 3 lenses.

Special features:

- High efficiency technology for optimised light output ratio and energy consumption
- Extraordinary spacing between luminaires minimizes number required (f.i. 22 mtrs distance at 3.5 mtrs ceiling height)
- Low power consumption during emergency operation reduce battery capacity required
- Long lamp life minimizes maintenance cost
- Easy and quick conversion of existing general lighting luminaires



Technical data

Mounting options:
To be fixed and connected to general lighting fittings

Body:
Aluminium, white (RAL 9010)
Cover:
Polycarbonate, white (RAL 9010)

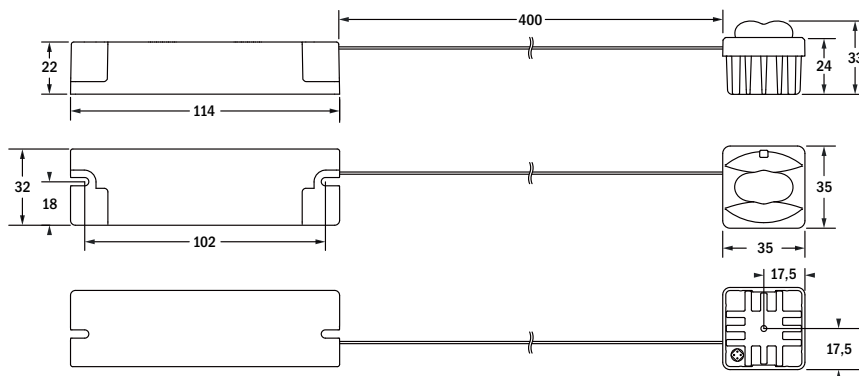
Protection:
IP40 (LED module)
IP20 (electronics module / battery box)

Terminals:
Push wire terminals, 1.5mm², suitable for in-out wiring



Central supply

Mains supply:
198V–254V/50Hz
Battery supply:
176V–254V
Ambient temperature:
-10 to +40°C



Central supply



Order code	Lamp	Power consumption		Ballast lumen (Battery mode)	EVG	Sleb	Alog
		AC	DC				
TB16764	LED 2.5W	6.0VA	5.0W	165lm ¹ 181lm ²	x		
TB16767	LED 2.5W	6.0VA	5.0W	165lm ¹ 181lm ²		x	
TB16768	LED 2.5W	6.0VA	5.0W	165lm ¹ 181lm ²			x

¹ version for escape route lighting
² version for area lighting

Lighting data: see page 24



Pluraluce65

Emergency luminaire with shallow design with high power LED and integral reflector and special optical lens system, either asymmetrical light distribution (escape route lighting) or symmetrical light distribution (area lighting).

Versions available: luminaire for surface wall, surface ceiling or recessed ceiling mounting. Body made of sheet steel or stainless steel

Special features:

- High efficiency technology for optimised light output ratio and energy consumption
- Extraordinary spacing between luminaires minimizes number required (e. g. 22 mtrs distance at 3.5 mtrs ceiling height)
- Low power consumption during emergency operation reduce battery capacity required
- Long lamp life minimizes maintenance cost
- Very robust design – also suitable for outdoor applications



Technical data

Mounting options:

Surface wall, surface ceiling or recessed ceiling mounting

Body:

Sheet steel, white painted (RAL 9003)

Stainless steel

Cover:

Clear methacrylate

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring

Central supply

Mains supply:

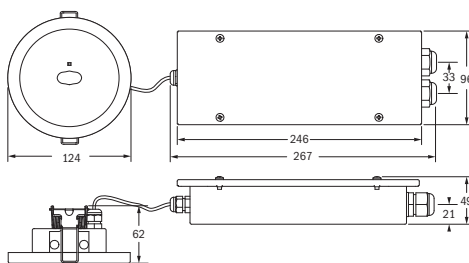
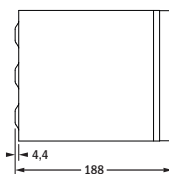
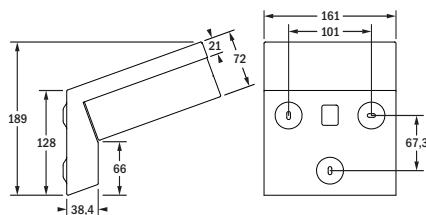
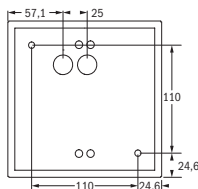
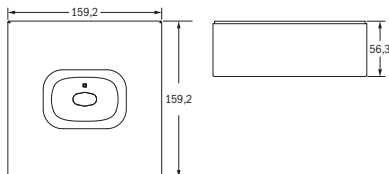
198V–254V/50Hz

Battery supply:

176V–254V

Ambient temperature:

-20 to +40°C



Wall / ceiling cutout
110mm diameter
suitable for ceiling thickness from 2mm to 40mm

Accessories to be ordered separately

Order code

Description

F95806-RAL9003

Wallbracket, white

F95806-INOX

Wallbracket, stainless steel

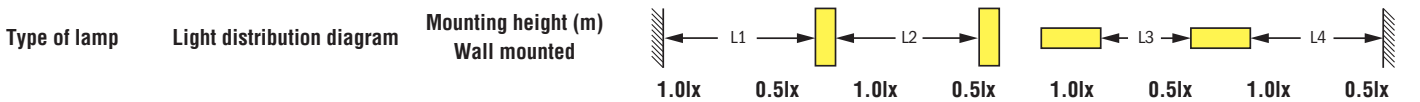
Order code	Lamp	Power consumption		Ballast lumen (Battery mode)	EVG	Sleb	Alog
		AC	DC				
Wall mounted ³ , ceiling mounted suitable for escape route lighting							
TB16739-IP65-__ ¹ -__ ²	LED 2.5W	6.0VA	5.0W	198lm	x		
TB16745-IP65-__ ¹ -__ ²	LED 2.5W	6.0VA	5.0W	198lm		x	
TB16747-IP65-__ ¹ -__ ²	LED 2.5W	6.0VA	5.0W	198lm			x
Ceiling mounted suitable for area lighting							
TB16738-IP65-__ ¹ -__ ²	LED 2.5W	6.0VA	5.0W	199lm	x		
TB16744-IP65-__ ¹ -__ ²	LED 2.5W	6.0VA	5.0W	199lm		x	
TB16746-IP65-__ ¹ -__ ²	LED 2.5W	6.0VA	5.0W	199lm			x
Recessed ceiling mounted for exit route lighting							
TB16755-IP65-__ ¹	LED 2.5W	6.0VA	5.0W	198lm	x		
TB16761-IP65-__ ¹	LED 2.5W	6.0VA	5.0W	198lm		x	
TB16763-IP65-__ ¹	LED 2.5W	6.0VA	5.0W	198lm			x
Ceiling recessed mounted for area lighting							
TB16754-IP65-__ ¹	LED 2.5W	6.0VA	5.0W	199lm	x		
TB16760-IP65-__ ¹	LED 2.5W	6.0VA	5.0W	199lm		x	
TB16762-IP65-__ ¹	LED 2.5W	6.0VA	5.0W	199lm			x

¹ Order code with suffix V2A = Stainless steel

² Order code with suffix NB = Versions for mounting height > 7.5m

³ For wall mounting please order required accessories separately

Lighting data



Versions for escape route lighting

Order code	Light distribution diagram	Mounting height (m)	1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx
TB16739-IP65		2.5	2.3	-	6.7	-	15.9	-	7.6	-
TB16745-IP65		3.0	2.5	-	6.5	-	18.8	-	8.6	-
TB16747-IP65		3.5	2.0	-	6.5	-	21.6	-	9.5	-
TB16755-IP65		4.0	1.9	-	6.5	-	24.1	-	7.5	-
TB16761-IP65		4.5	1.8	-	6.0	-	22.0	-	5.9	-
TB16763-IP65		5.0	1.6	-	5.8	-	22.4	-	5.3	-
		6.0	1.1	-	5.4	-	18.5	-	4.5	-
	7.0	-	-	-	-	-	-	-	-	-
	7.5	-	-	-	-	-	-	-	-	-

Versions for area lighting

Order code	Light distribution diagram	Mounting height (m)	1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx
TB16738-IP65		2.5	-	5.8	-	12.2	-	12.2	-	5.5
TB16744-IP65		3.0	-	6.7	-	14.4	-	14.2	-	6.7
TB16746-IP65		3.5	-	3.9	-	14.9	-	14.6	-	3.9
TB16754-IP65		4.0	-	3.6	-	15.1	-	14.9	-	3.6
TB16760-IP65		4.5	-	3.4	-	15.6	-	15.4	-	3.4
TB16762-IP65		5.0	-	3.0	-	11.4	-	11.4	-	3.0
		6.0	-	1.8	-	10.2	-	10.2	-	1.8
	7.0	-	-	-	-	-	-	-	-	-
	7.5	-	-	-	-	-	-	-	-	-

Versions for escape route lighting - mounting height > 7.5m

Order code	Light distribution diagram	Mounting height (m)	1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx
TB16739-IP65-NB		7.5	2.0	-	5.7	-	11.2	-	4.9	-
TB16745-IP65-NB		10.0	2.1	-	5.8	-	13.5	-	5.8	-
TB16747-IP65-NB		12.5	2.0	-	5.9	-	15.6	-	6.6	-
		15.0	1.8	-	6.1	-	17.6	-	7.6	-
		17.5	1.8	-	6.2	-	19.4	-	8.2	-
		20.0	1.4	-	6.0	-	21.0	-	8.5	-
		25.0	0.9	-	5.4	-	23.6	-	8.1	-
	30.0	-	-	-	-	-	-	-	-	-

Versions for area lighting - mounting height > 7.5m

Order code	Light distribution diagram	Mounting height (m)	1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx
TB16738-IP65-NB		7.5	-	3.0	-	7.5	-	7.5	-	3.0
TB16744-IP65-NB		10.0	-	3.3	-	8.3	-	8.3	-	3.3
TB16746-IP65-NB		12.5	-	3.7	-	9.1	-	9.1	-	3.7
		15.0	-	3.7	-	9.8	-	9.8	-	3.7
		17.5	-	3.7	-	10.4	-	10.4	-	3.7
		20.0	-	3.9	-	10.7	-	10.7	-	3.9
		25.0	-	4.1	-	11.3	-	11.3	-	4.1
	30.0	-	4.0	-	11.8	-	11.8	-	4.0	



Stella

Emergency luminaire in shallow design with high power LED and special optical system with 3 different lenses as double lens for asymmetric light distribution (illumination of escape routes) or single lens for symmetric light distribution (illumination of areas), for low (up to 3 mtrs) or high (up to 7 mtrs) mounting level.

Versions available: surface/recessed ceiling mounting.

Versions for recessed installation with remote gearbox (protection IP20).

Special features:

- High efficiency technology to optimise the light output ratio and power consumption
- Reduced battery capacity by low power consumption in DC mode
- Minimized maintenance costs based on a long lamp life



Technical data

Mounting options:

Surface/recessed ceiling mounting

Body:

Sheet steel (surface ceiling mounting), white (RAL 9003)

Sheet steel/aluminium (recessed ceiling mounting)

Cover:

Sheet steel, white (RAL 9003)

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring

Central supply

Mains supply:

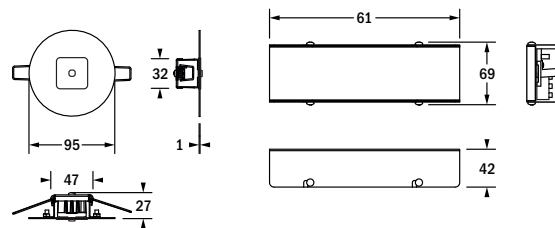
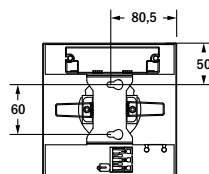
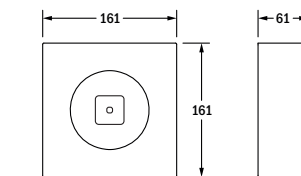
198V–254V/50Hz

Battery supply:

176V–254V

Ambient temperature:

-10 to +40°C



Ceiling Cutout

suitable for ceiling thickness from 2mm to 21mm



Technical data

Mounting options:
Ceiling surface or recessed ceiling mounting, wall mounting, pendant rod or bracket suspension

Body:
Sheet steel, grey (RAL 9006)
Stainless steel

Cover:
Sheet steel, grey (RAL 9006) (recessed mounting)
Stainless steel

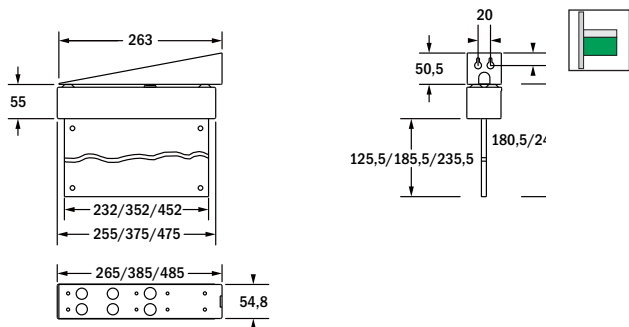
Terminals:
Push wire terminals 2.5mm² suitable for in-out wiring

Central supply

Mains supply:
198V-254V/50Hz

Battery supply:
176V-254V

Ambient temperature:
-20 to +40 °C



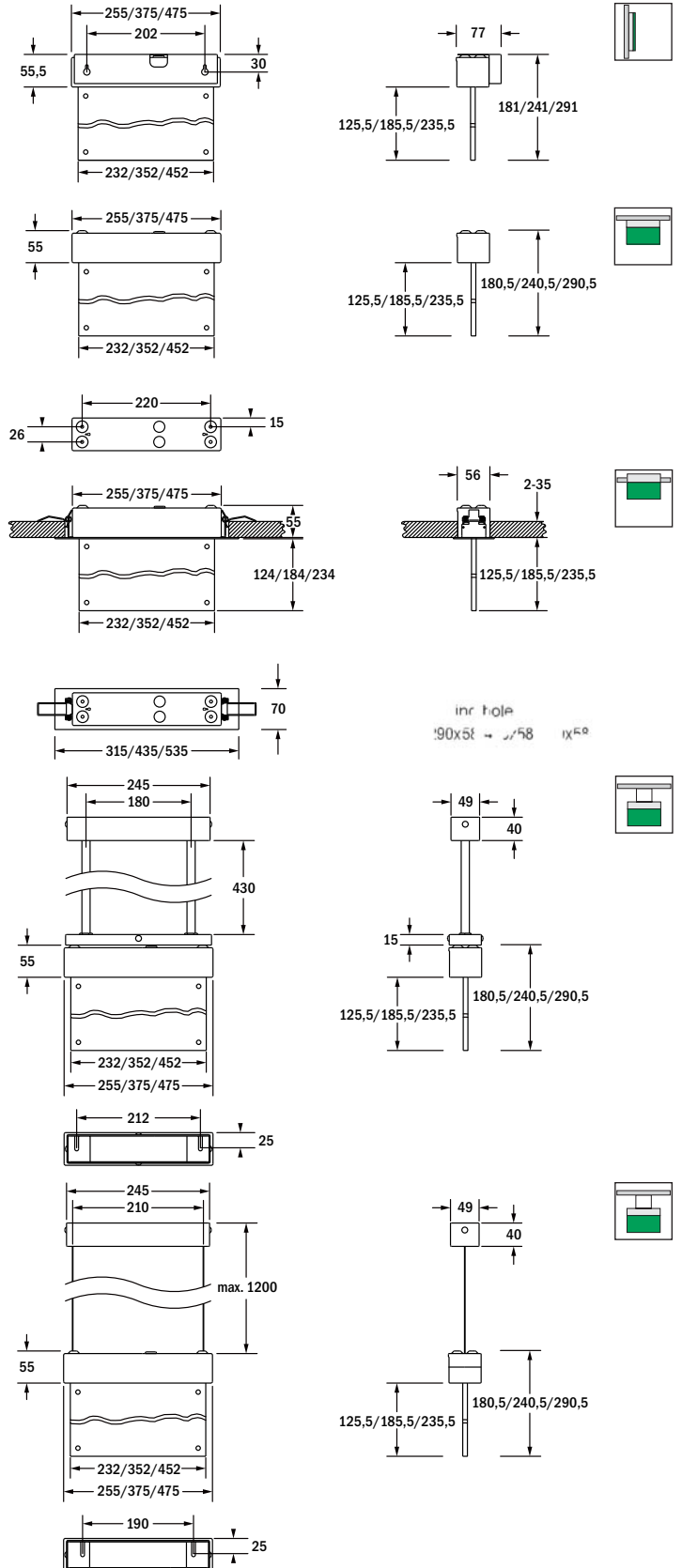
Multi-D

Exit sign luminaire with display technology in a universal version with a rectangular body, suitable for all variations of mounting. Single or double faced escape route marking by exchangeable pane.

Available versions: wall mounting (single faced), recessed / ceiling mounting, pendant and bracket mounting (double faced)

Advantages:

- Universal version for wall or ceiling mounting and further variations of mounting with accessories
- Minimized maintenance costs based on a long lamp life
- 3 viewing distances




Order code	VD	Lamp	Power consumption		EVG	Sleb	Alog
			AC	DC			
Wall mounted (single faced escape route lighting), ceiling surface or recessed ceiling mounted, pendant rod, bracket suspension (double faced escape route lighting) ²							
T93150 ₁	22m	LED 1.6W	5.0VA	3.0W	x	x	x
T93151 ₁	34m	LED 2.1W	6.0VA	3.8W	x	x	x
T93152 ₁	44m	LED 3.2W	7.0VA	5.4W	x	x	x

Stainless steel

Wall mounted (single faced escape route lighting), ceiling surface or recessed ceiling mounted, pendant rod, bracket suspension (double faced escape route lighting) ²							
T93153 ₁	22m	LED 1.6W	5.0VA	3.0W	x	x	x
T93154 ₁	34m	LED 2.1W	6.0VA	3.8W	x	x	x
T93155 ₁	44m	LED 3.2W	7.0VA	5.4W	x	x	x

¹ Order code with suffix E = electronic ballast, with suffix S = Sleb/with suffix A = Alog

² For recessed ceiling mounting, pendant rod and bracket suspension additional accessories are required. Please order separately.

Fitting supplied complete with			
Order code			Description
VD 22m	VD 34m	VD 44m	
E16500	E16501	E16502	Kit of exit sign films 
F95900	F95900	F95900	Wall mounted adapter
F95907	F95907	F95907	Wall mounted adapter stainless steel

Accessories to be ordered separately			
Order code			Description
VD 22m	VD 34m	VD 44m	
F95902	F95903	F95904	Kit for recessed ceiling mounting
F95905	F95905	F95905	Wire suspension, available length: 1200mm
F95901	F95901	F95901	Bracket
F95906	F95906	F95906	Pendant rod, length: 500mm
F95909	F95910	F95911	Kit for recessed ceiling mounting, stainless steel
F95912	F95912	F95912	Wire suspension, stainless steel, available length: 1200mm
F95908	F95908	F95908	Bracket, stainless steel
F95913	F95913	F95913	Pendant rod, stainless steel: 500mm
F95914	F95915	-	Concrete ceiling box



Dispos

Exit sign luminaire with display pane. Rectangular body with posted line (surface mounted version only). Single or double faced exit signs are available.

Versions available: wall mounted (single faced), ceiling surface mounted or recessed mounted, pendant rods or bracket suspension (double faced)

Special features:

- Multi-functional design
- Long lamp life minimizes maintenance cost
- Versions with 2 different visibility distances are available



Technical data

Mounting options:

Surface or recessed ceiling or wall mounting, pendant rod or bracket suspension

Body:

Aluminium, white painted (RAL 9003)
Zinc plated steel (recessed version only)

Cover:

Sheet steel, white painted (RAL 9003) (recessed version only)

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring

Central supply

Mains supply:

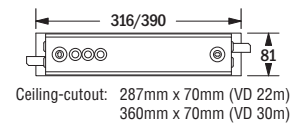
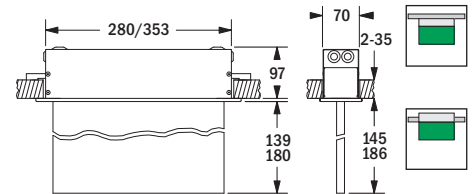
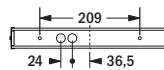
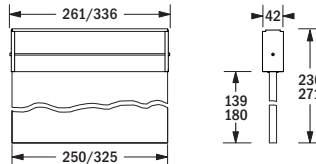
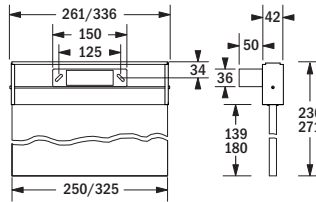
198V–254V/50Hz

Battery supply:

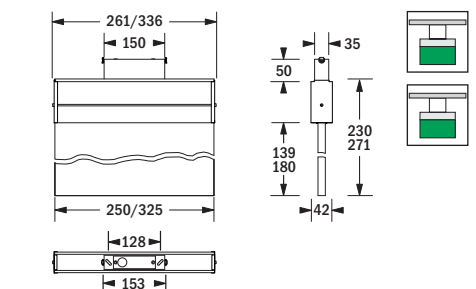
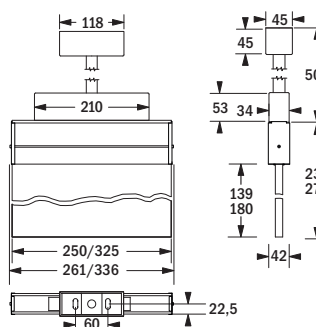
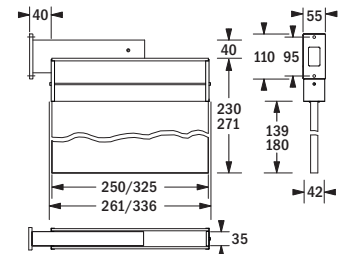
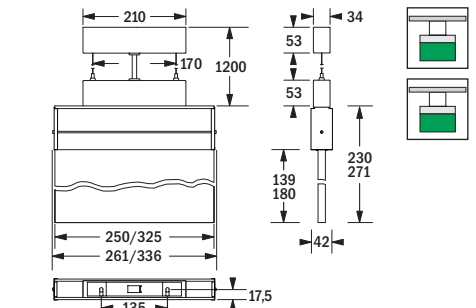
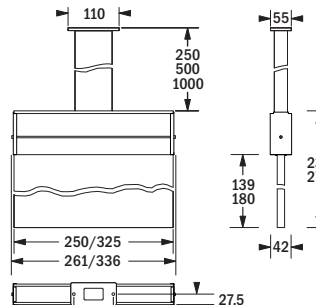
176V–254V

Ambient temperature:

-20 to +40 °C



Ceiling-cutout: 287mm x 70mm (VD 22m)
360mm x 70mm (VD 30m)



Order code	VD	Lamp	Power consumption		Ballast lumen factor		
			AC	DC	EVG	Sleb	Alog
Ceiling recessed mounted (double faced escape route lighting)							
T93001_1	22m	LED 1.6W	5.0VA	3.0W	x	x	x
T93002_1	30m	LED 2.1W	6.0VA	3.8W	x	x	x
TM92101_1	22m	T5 6W	11.2VA	5.5W	100%	75%	75%
TM92100_1	30m	T5 8W	13.2VA	6.8W	100%	75%	75%
Wall mounted (single faced escape route lighting)							
T93003_1	22m	LED 1.6W	5.0VA	3.0W	x	x	x
T93004_1	30m	LED 2.1W	6.0VA	3.8W	x	x	x
TM92108_1	22m	T5 6W	11.2VA	5.5W	100%	75%	75%
TM92110_1	30m	T5 8W	13.2VA	6.8W	100%	75%	75%
Ceiling surface mounted (double faced escape route lighting)							
T93005_1	22m	LED 1.6W	5.0VA	3.0W	x	x	x
T93006_1	30m	LED 2.1W	6.0VA	3.8W	x	x	x
TM92120_1	22m	T5 6W	11.2VA	5.5W	100%	75%	75%
TM92121_1	30m	T5 8W	13.2VA	6.8W	100%	75%	75%
Pendant, chain and bracket mounted (double faced escape route lighting) ²							
T93007_1	22m	LED 1.6W	5.0VA	3.0W	x	x	x
T93008_1	30m	LED 2.1W	6.0VA	3.8W	x	x	x
TM92109_1	22m	T5 6W	11.2VA	5.5W	100%	75%	75%
TM92111_1	30m	T5 8W	13.2VA	6.8W	100%	75%	75%

¹ Order code with suffix E = electronic ballast, with suffix S = Sleb, with suffix A = Alog

² For surface mounting and all suspended versions, please order required accessories separately.

Accessories to be ordered separately		
Order code	VD	Description
	22m	
	30m	
E16260N	E16128N	Exit sign pane
E16261N	E16129N	Exit sign pane
E16262N	E16130N	Exit sign pane
F95600	F95600	Rectangular pendant: 250mm
F95601	F95601	Rectangular pendant: 500mm
F95602	F95602	Rectangular pendant: 1000mm
F95057	F95057	Adaptor for ceiling mounting
F95401	F95401	Wire suspension: max. 1200mm
F95207N	F95208N	Bracket
F95400	F95400	Pendant rod: 500mm
F95067	F95067	Adaptor for chain or wire suspension
F95220	F95221	Concrete ceiling box (recessed ceiling mounting)



Alu-K

Exit sign luminaire with rectangular body of flat aluminium profiles. Sign screens may be inserted or replaced without any tools.

Versions available: wall mounted (single faced signs), surface mounted, pendant and bracket suspension (double faced signs)

Special features:

- Fully functional design
- Long lamp life minimizes maintenance cost
- Versions with 3 different visibility distances are available
- Identically designed emergency luminaires are also available



Technical data

Mounting options:

Ceiling surface or wall mounting, pendant rod or bracket suspension

Body:

Aluminum, anodised

Pane:

Methacrylate, printed

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring

Central supply

Mains supply:

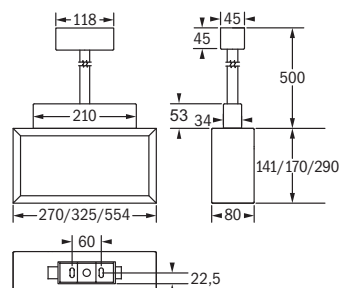
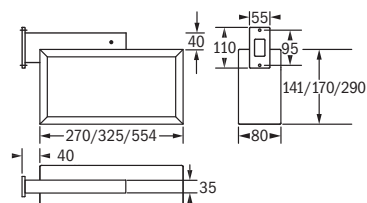
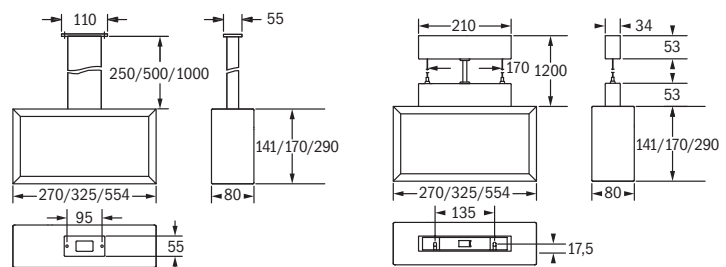
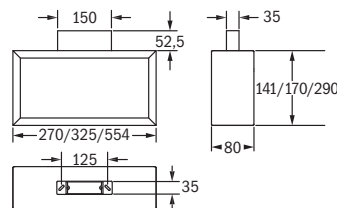
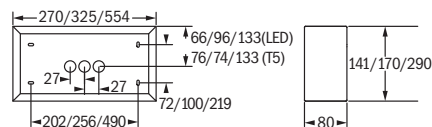
198V–254V/50Hz

Battery supply:

176V–254V

Ambient temperature:

-20 to +40 °C



Order code	VD	Lamp	Power consumption		Ballast lumen factor		
			AC	DC	EVG	Sleb	Alog
Wall mounted (single faced escape route lighting)							
T93020 ¹	24m	LED 1.6W	5.0VA	3.0W	X	X	X
T93021 ¹	30m	LED 2.1W	6.0VA	3.8W	X	X	X
T93022 ¹	53m	LED 3.2W	7.0VA	5.4W	X	X	X
Ceiling surface mounted, pendant and bracket mounted (double faced escape route lighting) ²							
T93023 ¹	24m	LED 1.6W	5.0VA	3.0W	X	X	X
T93024 ¹	30m	LED 2.1W	6.0VA	3.8W	X	X	X
T93025 ¹	53m	LED 3.2W	7.0VA	5.4W	X	X	X

¹ Order code with suffix E = electronic ballast, with suffix S = Sleb, with suffix A = Alog

² For surface mounting and all suspended versions, please order required accessories separately.

Accessories to be ordered separately			
Order code	Description		
VD 24m	VD 30m	VD 53m	
E16710N	E16715N	E16720N	Exit sign pane
E16711N	E16716N	E16721N	Exit sign pane
E16712N	E16717N	E16722N	Exit sign pane
E16713	E16718	E16723	Opal plastic pane
E16714	E16719	E16724	Plastic pane painted in body color
F95717	F95717	F95717	Adaptor for ceiling mounting
F95718	F95718	F95718	Rectangular pendant: 250mm
F95719	F95719	F95719	Rectangular pendant: 500mm
F95720	F95720	F95720	Rectangular pendant: 1000mm
F95723	F95723	F95723	Wire suspension: max. 1200mm
F95714	F95721	F95729	Bracket
F95722	F95722	F95722	Pendant rod: 500mm
-	F95724	-	Wire guard (wall mounted version)



Alu-K

Emergency luminaire with shallow aluminium profiles and mitred corners. Lighting controlled by specular reflector and clear cover with vertical prismatic structure. Versions available: wall mounted, ceiling surface mounted

Special features:

- Fully functional design
- Long lamp life minimizes maintenance cost
- Identically designed exit sign versions with 3 different visibility distances are also available



Technical data

Mounting options:

Ceiling surface or wall mounting

Body:

Aluminum, anodised

Pane:

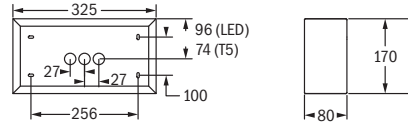
Methacrylate, clear with vertical prisms

Reflector:

Specular aluminium

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring



Central supply

Mains supply:

198V–254V/50Hz

Battery supply:

176V–254V

Ambient temperature:

-20 to +40°C (LED)

-10 to +40°C (T5)

Central supply

Order code	Lamp	Power consumption		Ballast lumen (Battery mode)	Ballast lumen factor		
		AC	DC		EVG	Sleb	Alog
Ceiling surface or wall mounted							
T93026_1	LED 2.1W	6.0VA	3.8W	144lm	x	x	x
T92926_1	T5 8W	13.2VA	6.8W		100%	75%	75%

¹ Order code with suffix E = electronic ballast, with suffix S = Sleb, with suffix A = Alog

Accessories to be ordered separately

Order code	Description
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F95724	Wire guard
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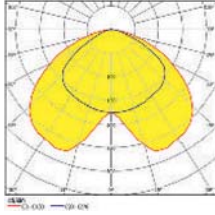
Ballast lumen
(Battery mode)

Ballast lumen factor
EVG Sleb Alog

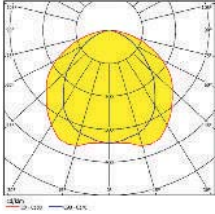
Lighting data

Type of lamp Light distribution diagram

T93026_



T92926_



Mounting height (m)	Spacing (m)							
	1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx
2.5	3.1	3.2	8.0	8.1	6.5	7.9	2.5	3.2
3.0	3.1	4.2	8.5	8.7	7.0	8.5	2.6	4.2
3.5	3.2	4.4	8.8	9.3	7.3	9.1	2.7	3.5
4.0	3.1	4.5	9.0	9.7	7.5	9.6	2.6	3.7
4.5	3.0	4.4	9.1	10.1	7.6	10.1	2.5	3.7
5.0	2.7	4.4	9.1	10.4	7.6	10.4	2.2	3.6
6.0	1.6	4.3	8.8	10.7	7.3	10.7	0.7	3.1
7.0	-	3.8	-	10.8	-	10.7	-	2.7
7.5	-	3.6	-	10.8	-	10.7	-	2.1
8.0	-	3.2	-	10.6	-	10.5	-	-
9.0	-	-	-	-	-	-	-	-
10.0	-	-	-	-	-	-	-	-
2.5	4.3	5.3	10.9	12.9	9.2	10.6	3.6	4.9
3.0	4.6	5.8	11.8	14.1	10.1	11.8	4.0	5.2
3.5	5.0	6.3	12.6	15.2	10.9	12.9	4.2	5.6
4.0	5.1	6.4	13.2	16.2	11.5	13.8	4.3	5.9
4.5	5.3	6.9	13.8	17.0	11.9	14.6	4.3	6.2
5.0	5.3	7.1	13.3	17.8	12.2	15.4	4.3	6.1
6.0	5.4	7.4	15.1	19.1	12.4	16.3	3.7	6.2
7.0	5.1	7.7	15.5	20.1	12.1	17.3	2.8	6.1
7.5	4.9	7.7	15.7	20.6	11.8	17.5	1.9	5.8
8.0	-	6.1	-	17.0	-	17.3	-	6.1
9.0	-	6.0	-	17.3	-	17.5	-	6.0
10.0	-	5.5	-	17.1	-	17.4	-	5.5



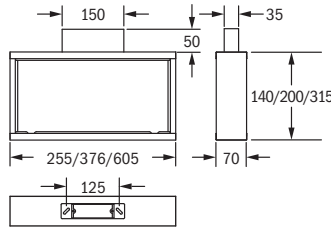
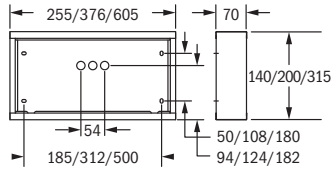
Kubus

Exit sign luminaire with rectangular body of flat steel profiles. Sign screens may be inserted or replaced without any tools. Wall mounted versions are available with a slot in the body for downlighting.

Versions available: wall mounted (single faced signs), surface mounted, pendant, chain and bracket suspension (double faced signs)

Special features:

- Long lamp life minimizes maintenance cost
- Versions with 3 different visibility distances are available
- Also available with protection grade IP54



Technical data

Mounting options:

Ceiling surface or wall mounting, pendant, chain, wire and bracket suspension

Body:

Sheet steel, white painted (RAL 9003)

Pane:

Methacrylate, printed

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring

Central supply

Mains supply:

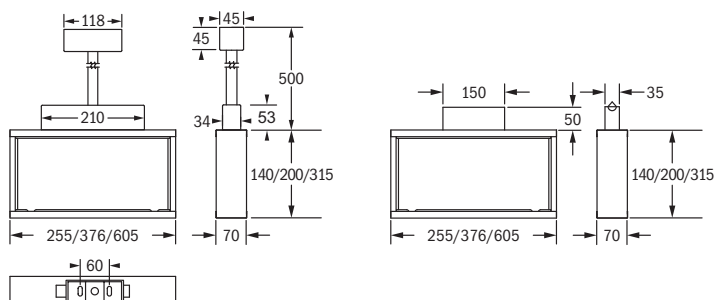
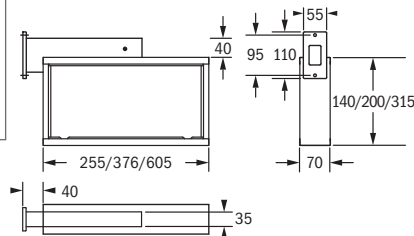
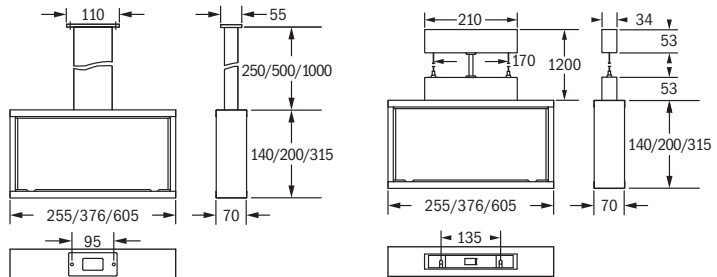
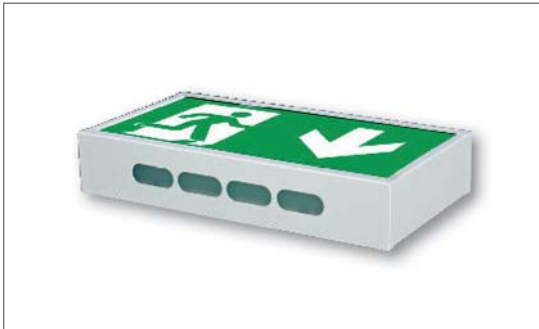
198V–254V/50Hz

Battery supply:

176V–254V

Ambient temperature:

-20 to +40 °C



Order code	VD	Lamp	Power consumption		Ballast lumen factor		
			AC	DC	EVG	Sleb	Alog
Wall mounted (single faced escape route lighting)							
T93010 ₁	21m	LED 1.6W	5.0VA	3.0W	x	x	x
T93011 ₁	34m	LED 3.2W	7.0VA	5.4W	x	x	x
T93012 ₁	56m	LED 3.2W	7.0VA	5.4W	x	x	x
TM92630 ₁	21m	T5 6W	11.2VA	5.5W ³	100%	75%	75%
TM92631 ₁	34m	T5 8W	13.2VA	6.8W ³	100%	75%	75%
TM92616 ₁	56m	T5 13W	19.8VA	11.2W ³	100%	75%	75%
Ceiling surface mounted, pendant and bracket mounted (double faced escape route lighting) ²							
T93013 ₁	21m	LED 1.6W	5.0VA	3.0W	x	x	x
T93014 ₁	34m	LED 3.2W	7.0VA	5.4W	x	x	x
T93015 ₁	56m	LED 3.2W	7.0VA	5.4W	x	x	x
TM92624 ₁	21m	T5 6W	11.2VA	5.5W ³	100%	75%	75%
TM92625 ₁	34m	T5 8W	13.2VA	6.8W ³	100%	75%	75%
TM92615 ₁	56m	T5 13W	19.8VA	11.2W ³	100%	75%	75%

¹Order code with suffix E = electronic ballast, with suffix S = Sleb, with suffix A = Alog

² For surface mounting and all suspended versions, please order required accessories separately.

³ Versions Sleb and Alog require an additional power consumption of 1.5 watts for emergency operation.

Accessories to be ordered separately			
Order code	Description		
VD 21m	VD 34m	VD 56m	
E16604N	E16608N	E16134N	Exit sign pane
E16605N	E16609N	E16135N	Exit sign pane
E16606N	E16610N	E16136N	Exit sign pane
E16607	E16611	E16234	Opal plastic pane
E16242	E16241	E16251	Metal sheet painted in body color
F95057	F95057	F95057	Adaptor for ceiling mounting
F95600	F95600	F95600	Rectangular pendant: 250mm
F95601	F95601	F95601	Rectangular pendant: 500mm
F95602	F95602	F95602	Rectangular pendant: 1000mm
F95401	F95401	F95401	Wire suspension: max. 1200mm
F95055	F95056	F95070	Bracket
F95400	F95400	F95400	Pendant rod: 500mm
F95067	F95067	F95067	Adaptor for chain or wire suspension
-	F95032	-	Wire guard (wall mounted version)



Kubus

Emergency luminaire with shallow profiled sheet steel and shallow corners. Lighting control by specular reflector and clear cover with vertical prismatic structure.

Versions available: wall mounted, ceiling surface mounted.

Special features:

- Long lamp life minimizes maintenance cost
- Identically designed exit sign versions with 3 different visibility distances are available
- Also available with protection grade IP54



Technical data

Mounting options:

Ceiling surface or wall mounting

Body:

Sheet steel, white painted (RAL 9003)

Cover:

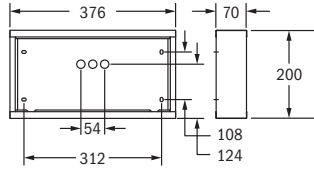
Methacrylate, clear with vertical prisms

Reflector:

Aluminium, specular

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring



Central supply

Mains supply:

198V–254V/50Hz

Battery supply:

176V–254V

Ambient temperature:

-20 to +40 °C (LED)

-10 to +40 °C (T5)

Central supply



Order code	Lamp	Power consumption		Ballast lumen (Battery mode)	Ballast lumen factor		
		AC	DC		EVG	Sleb	Alog
Ceiling surface or wall mounted							
T93016_1	LED 3.2W	7.0VA	5.4W	204lm	x	x	x
TM92678_1	T5 8W	13.2VA	6.8W ²		100%	75%	75%

¹ Order code with suffix **E** = electronic ballast, with suffix **S** = Sleb, with suffix **A** = Alog

² Versions Sleb and Alog require an additional power consumption of 1.5 watts for emergency operation.

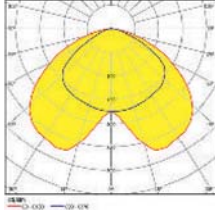
Accessories to be ordered separately

Order code	Description
F95032	Wire guard

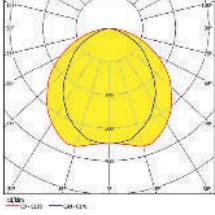
Lighting data

Type of lamp Light distribution diagram

T93016_



TM92678_



Mounting height (m)	Spacing (m)							
	1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx
2.5	3.6	3.6	9.1	8.8	7.8	8.8	3.1	3.6
3.0	3.8	3.7	9.8	9.5	8.4	9.5	3.3	3.7
3.5	3.9	4.0	10.4	10.1	8.9	10.1	3.3	4.0
4.0	4.1	4.1	10.8	10.6	9.2	10.6	3.4	4.1
4.5	4.0	4.2	11.2	11.1	9.4	11.1	3.5	4.2
5.0	4.0	4.2	11.4	11.4	9.6	11.4	3.3	4.2
6.0	3.7	4.2	11.6	12.0	9.9	12.0	3.0	4.2
7.0	3.1	4.9	11.5	12.2	9.7	12.2	2.3	4.0
7.5	2.7	4.8	11.4	12.2	9.5	12.2	1.7	3.8
8.0	-	4.6	-	12.2	-	12.2	-	3.5
9.0	-	3.8	-	12.0	-	12.0	-	2.7
10.0	-	1.6	-	11.6	-	11.6	-	0.7
2.5	4.3	5.3	10.9	12.9	9.2	10.6	3.6	4.9
3.0	4.6	5.8	11.8	14.1	10.1	11.8	4.0	5.2
3.5	5.0	6.3	12.6	15.2	10.9	12.9	4.2	5.6
4.0	5.1	6.4	13.2	16.2	11.5	13.8	4.3	5.9
4.5	5.3	6.9	13.8	17.0	11.9	14.6	4.3	6.2
5.0	5.3	7.1	13.3	17.8	12.2	15.4	4.3	6.1
6.0	5.4	7.4	15.1	19.1	12.4	16.3	3.7	6.2
7.0	5.1	7.7	15.5	20.1	12.1	17.3	2.8	6.1
7.5	4.9	7.7	15.7	20.6	11.8	17.5	1.9	5.8
8.0	-	6.1	-	17.0	-	17.3	-	6.1
9.0	-	6.0	-	17.3	-	17.5	-	6.0
10.0	-	5.5	-	17.2	-	17.4	-	5.5



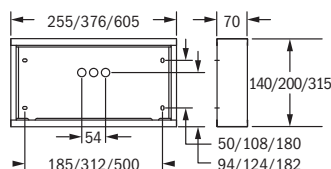
Kubus54

Exit sign or emergency luminaire with high protection grade. The Kubus54 features a rectangular body of shallow profiles with exit screens that may be inserted or replaced without any tools. Wall mounted versions offer additional floor lighting.

Versions available: wall mounted (single faced), surface ceiling mounted, pendant, bracket or chain/wire mounted (double faced)

Advantages:

- Long lamp service life offers minimized maintenance cost
- Also available as emergency luminaire
- Available option in protection grade IP40



Technical data

Mounting options:

Ceiling surface or wall mounting, pendant, chain, wire and bracket suspension

Body:

Sheet steel, white painted (RAL 9003)

Pane:

Methacrylate, printed

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring

Central supply

Mains supply:

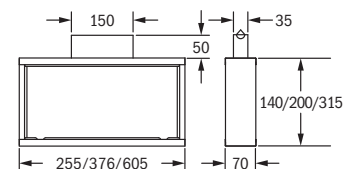
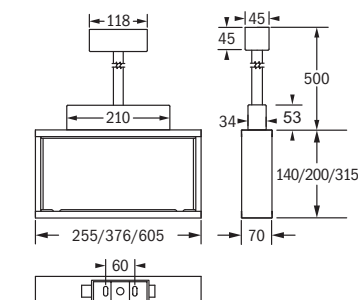
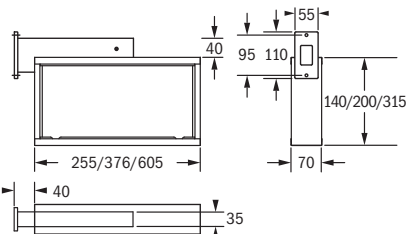
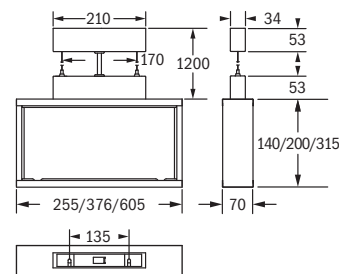
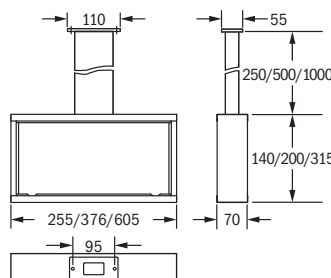
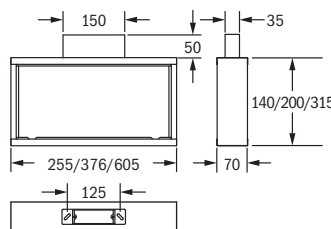
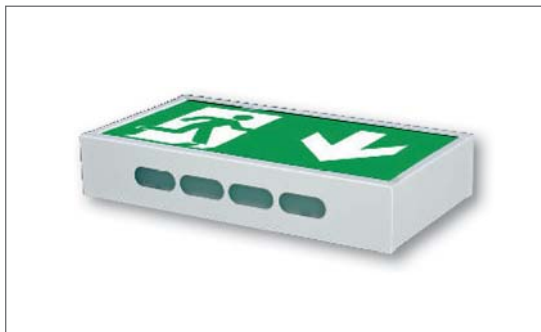
198V–254V/50Hz

Battery supply:

176V–254V

Ambient temperature:

-20 to +40 °C



Power consumption

Order code	VD	Lamp	Power consumption		Ballast lumen (Battery mode)	EVG	Sleb	Alog
			AC	DC				
Wall mounted (single faced escape route lighting)								
T93180 _1	34m	LED 3.2W	7.0VA	5.4W	204lm	x	x	x
Ceiling surface mounted, pendant and bracket mounted (double faced escape route lighting) ²								
T93181 _1	34m	LED 3.2W	7.0VA	5.4W	204lm	x	x	x

¹ Order code with suffix E = electronic ballast, with suffix S = Sleb, with suffix A = Alog

² For surface mounting and all suspended versions, please order required accessories separately.

Accessories to be ordered separately

Order code	Description	
VD 34m		
E16608N	Exit sign pane	
E16609N	Exit sign pane	
E16610N	Exit sign pane	
E16611	Opal plastic pane	
E16241	Metal sheet painted in body color	
F95057	Adaptor for ceiling mounting	
F95600	Rectangular pendant: 250mm	
F95601	Rectangular pendant: 500mm	
F95602	Rectangular pendant: 1000mm	
F95401	Wire suspension: max. 1200mm	
F95056	Bracket	
F95400	Pendant rod: 500mm	
F95067	Adaptor for chain or wire suspension	
F95032	Wire guard (wall mounted version)	



Kubus54

Exit sign or emergency luminaire with a high protection grade. Kubus54 features a rectangular body of shallow profiles. Lighting controlled by specular reflector and clear cover with longitudinal prismatic structure.

Versions available: wall mounted

Advantages:

- Long lamp service life offers minimized maintenance cost
- Also available as exit sign luminaire
- Available option in protection grade IP40



Technical data

Mounting options:

Wall mounting

Body:

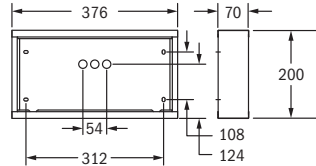
Sheet steel, white painted (RAL 9003)

Pane:

Methacrylate, printed

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring



Central supply

Mains supply:

198V–254V / 50Hz

Battery supply:

176V–254V

Ambient temperature:

-20 to +40 °C

Central supply



Order code	Lamp	Power consumption		Ballast lumen (Battery mode)	EVG	Sleb	Alog
		AC	DC				
T93182_1	LED 3.2W	7.0VA	5.4W	204lm	x	x	x

¹ Order code with suffix E = electronic ballast, with suffix S = Sleb, with suffix A = Alog

Accessories to be ordered separately

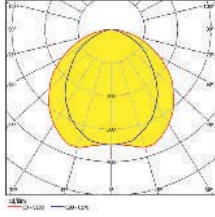
Order code Description

F95032 Wire guard

Lighting data

Type of lamp Light distribution diagram

T93182



Mounting height (m) Wall mounted	Spacing (m)							
	1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx
1.5	-	-	-	-	2.6	-	6.1	-
2.0	-	-	-	-	2.9	-	7.3	-
2.5	-	-	-	-	3.2	-	7.9	-





Kubus65

Exit sign or emergency luminaire with high a protection grade. Kubus65 features a body of steel or stainless steel with a framed clear cover. Lighting control by a complexly shaped specular reflector. Escape route marking through adhesive exit sign films.

Versions available: surface wall mounting (escape route lighting or single faced exit signs), ceiling surface mounting or bracket suspension (escape route lighting or double faced exit signs)

Special features:

- Luminaire with a high protection grade
- Highly resistant against mechanically and chemically aggressive materials
- Long lamp life minimizes maintenance cost



Technical data

Mounting options:

Surface or wall mounting, pendant or bracket suspension

Body:

Sheet steel, white painted (RAL 9003)
optional stainless steel

Cover:

Sheet steel, white painted (RAL 9003) with methacrylate pane
optional stainless steel

Reflector:

Aluminium, specular

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring

Central supply

Mains supply:

198V–254V/50Hz

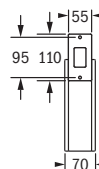
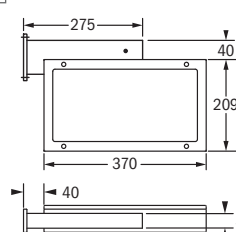
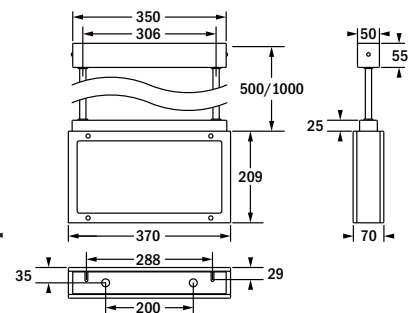
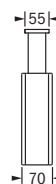
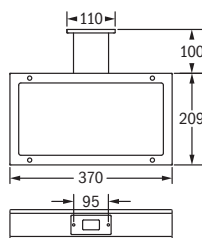
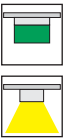
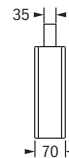
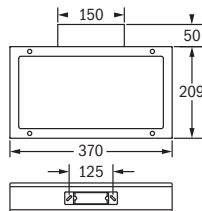
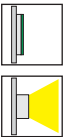
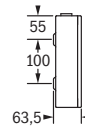
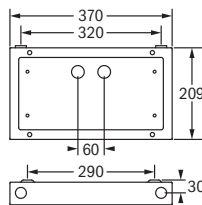
Battery supply:

176V–254V

Ambient temperature:

-20 to +40 °C (LED)

-10 to +40 °C (T5)





Design

Exit sign luminaire with semi-circular steel profiles and flat endcaps. Sign screens may be inserted or replaced without any tools.

Versions available: wall mounted (single faced), ceiling surface mounted, pendant, bracket, wire and chain suspension (double faced)

Special features:

- Long lamp life minimizes maintenance cost
- Versions with 2 different visibility distances are available
- Identically designed emergency luminaires are also available



Technical data

Mounting options:

Ceiling surface or wall mounting, pendant, chain, wire and bracket suspension

Body:

Sheet steel, white painted (RAL 9003)

Pane:

Methacrylate, painted

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring

Central supply

Mains supply:

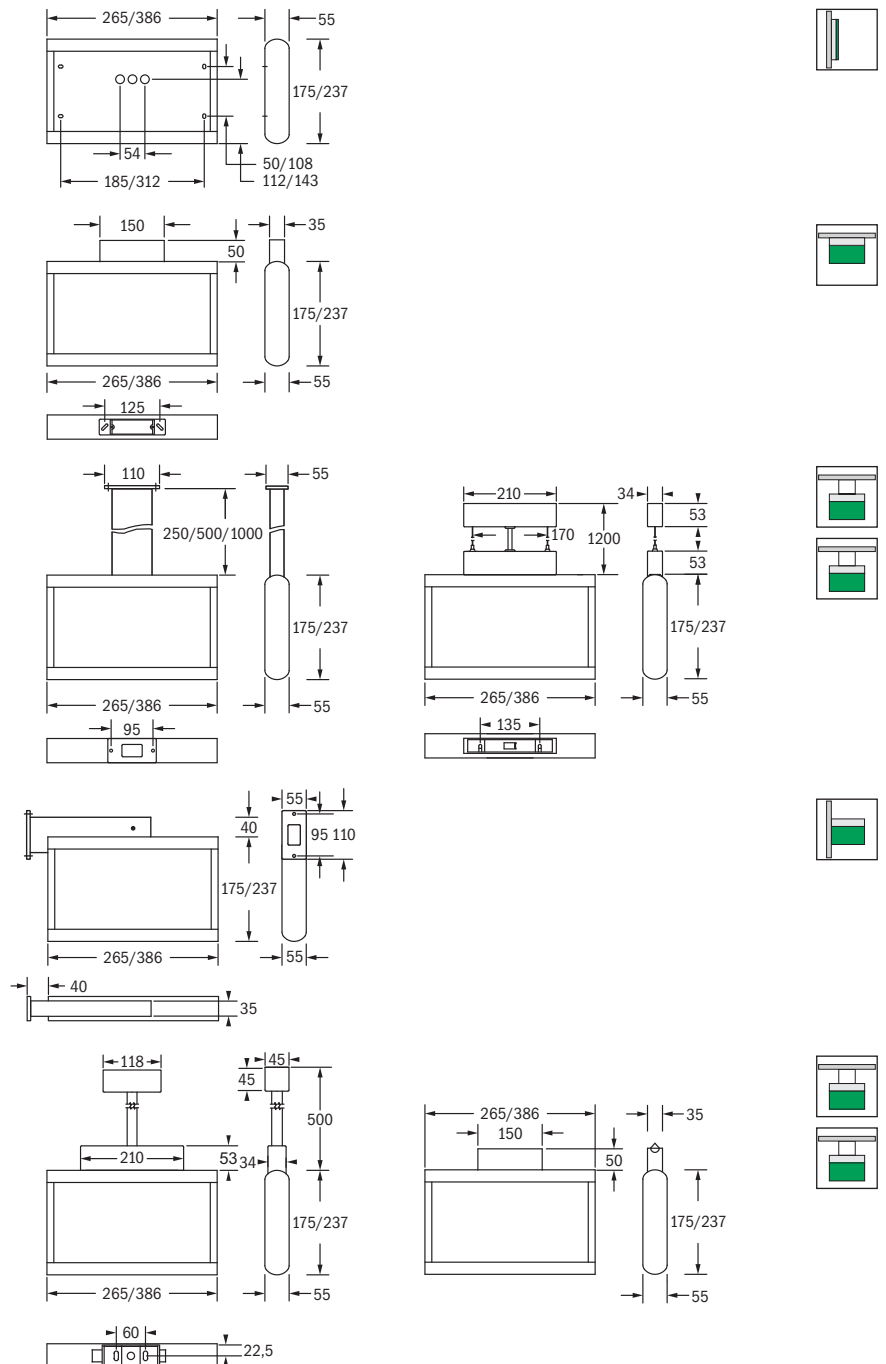
198V–254V/50Hz

Battery supply:

176V–254V

Ambient temperature:

-20 to +40 °C



Order code	VD	Lamp	Power consumption		EVG	Sleb	Alog
			AC	DC			
Wall mounted (single faced escape route lighting)							
T93030_1	21m	LED 1.6W	5.0VA	3.0W	X	X	X
T93031_1	34m	LED 3.2W	7.0VA	5.4W	X	X	X
Ceiling surface mounted, pendant and bracket mounted (double faced escape route lighting) ²							
T93032_1	21m	LED 1.6W	5.0VA	3.0W	X	X	X
T93033_1	34m	LED 3.2W	7.0VA	5.4W	X	X	X

¹ Order code with suffix E = electronic ballast, with suffix S = Sleb, with suffix A = Alog

² For surface mounted and all suspended versions, please order required accessories separately.

Accessories to be ordered separately		
Order code		Description
VD 21m	VD 34m	
E16604N	E16608N	Exit sign pane
E16605N	E16609N	Exit sign pane
E16606N	E16610N	Exit sign pane
E16607	E16611	Opal plastic pane
E16242	E16241	Metal sheet painted in body color
F95057	F95057	Adaptor for ceiling mounting
F95100	F95100	Rectangular pendant: 250mm
F95101	F95101	Rectangular pendant: 500mm
F95102	F95102	Rectangular pendant: 1000mm
F95401	F95401	Wire suspension: max. 1200mm
F95022	F95035	Bracket
F95400	F95400	Pendant rod: 500mm
F95067	F95067	Adaptor for chain or wire suspension
-	F95032	Wire guard (wall mounted version)



Design

Emergency luminaire with semi-circular profiled steel sheeting and shallow corners. Lighting controlled by specular reflector and clear cover with vertical prismatic structure. Versions available: wall mounted, ceiling surface mounted

Special features:

- Long lamp life minimizes maintenance cost
- Identically designed exit sign versions with 2 different visibility distances are available



Technical data

Mounting options:

Ceiling surface or wall mounting

Body:

Sheet steel, white painted (RAL 9003)

Cover:

Methacrylate, clear with vertical prisms

Reflector:

Aluminium, specular

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring

Central supply

Mains supply:

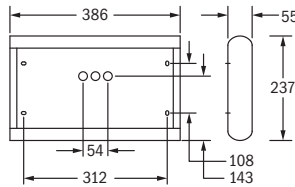
198V–254V/50Hz

Battery supply:

176V–254V

Ambient temperature:

-20 to +40°C



Central supply



Order code	Lamp	Power consumption		Ballast lumen (Battery mode)	EVG	Sleb	Alog
		AC	DC				
Ceiling surface or wall mounted							
T93034_1	LED 3.2W	7.0VA	5.4W	204lm	x	x	x

¹ Order code with suffix E = electronic ballast, with suffix S = Sleb, with suffix A = Alog

Accessories to be ordered separately

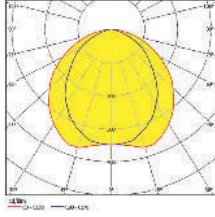
Order code Description

F95032 Wire guard

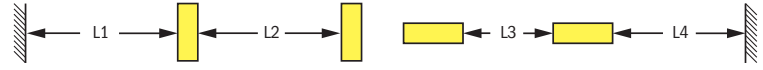
Lighting data

Type of lamp Light distribution diagram

T93034__



Mounting height (m)	Spacing (m)							
	1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx
2.5	3.6	3.6	9.1	8.8	7.8	8.8	3.1	3.6
3.0	3.8	3.7	9.8	9.5	8.4	9.5	3.3	3.7
3.5	3.9	4.0	10.4	10.1	8.9	10.1	3.3	4.0
4.0	4.1	4.1	10.8	10.6	9.2	10.6	3.4	4.1
4.5	4.0	4.2	11.2	11.1	9.4	11.1	3.5	4.2
5.0	4.0	4.2	11.4	11.4	9.6	11.4	3.3	4.2
6.0	3.7	4.2	11.6	12.0	9.9	12.0	3.0	4.2
7.0	3.1	4.9	11.5	12.2	9.7	12.2	2.3	4.0
7.5	2.7	4.8	11.4	12.2	9.5	12.2	1.7	3.8
8.0	-	4.6	-	12.2	-	12.2	-	3.5
9.0	-	3.8	-	12.0	-	12.0	-	2.7
10.0	-	1.6	-	11.6	-	11.6	-	0.7





Maxima

Exit sign luminaire in functional design, body with clear convex shaped cover. Additional downlighting provided by slots in the body. Versions available: wall mounted (single faced), ceiling surface mounted, pendant rods, chains or bracket suspension (double faced)

Special features:

- High protection grade
- Long lamp life minimizes maintenance cost
- Easy mounting with quick fix system



Technical data

Mounting options:

Surface or wall mounting, pendant rod, chain or bracket suspension

Body:

Polycarbonate, grey (RAL 7035)

GRP, grey (RAL 7035)

Pane:

Polycarbonate, clear

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring

Central supply

Mains supply:

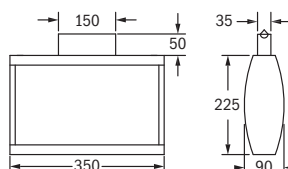
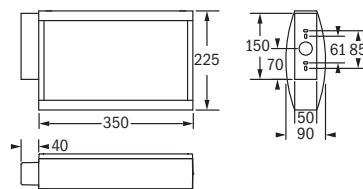
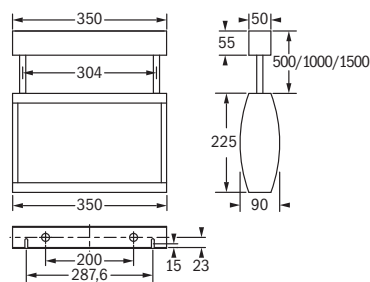
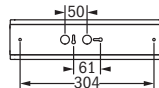
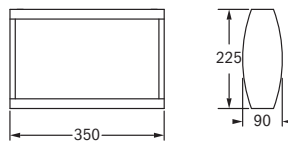
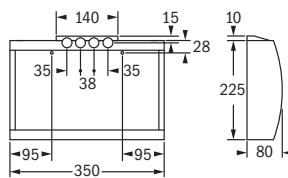
198V–254V/50Hz

Battery supply:

176V–254V

Ambient temperature:

-20 to +40 °C



Order code	VD	Lamp	Power consumption		EVG	Sleb	Alog
			AC	DC			
Wall mounted (single faced escape route lighting)							
T93040_1	33m	LED 2W	6.0VA	3.8W	X	X	X
Ceiling surface mounted, pendant and bracket mounted (double faced escape route lighting) ²							
T93041_1	33m	LED 2W	6.0VA	3.8W	X	X	X

¹ Order code with suffix E = electronic ballast, with suffix S = Sleb, with suffix A = Alog

² For surface mounting and all suspended versions, please order required accessories separately.

Fitting supplied complete with

Order code	Description
VD 33m	
FB16910	Kit of exit sign films 
F95506	Bracket (double faced escape route lighting)

Accessories to be ordered separately

Order code	Description
VD 33m	
F95700	Adaptor for ceiling mounting and visible conduits
F95510	Pendant rod: 500mm
F95511	Pendant rod: 1000mm
F95512	Pendant rod: 1500mm
FB3723	Adaptor for chain or wire suspension
F95032	Wire guard (wall mounted version)



Logica

Exit sign or emergency luminaire with high protection grade. Body with rounded corners and clip on diffuser. Light distribution by complex shaped reflector.

Versions available: surface or recessed wall mounted (single faced exit signs), surface or recessed ceiling mounted (escape route lighting)

Special features:

- Compact design plus high protection grade
- Long lamp life minimizes maintenance cost
- Easy and quick mounting by bracket with integrated level
- Recessed box supplied as standard accessory



Technical data

Mounting options:

Wall or recessed wall mounting (IP65)
Surface or recessed ceiling mounting (IP40)

Body:

Polycarbonate, grey (RAL 7035)

Cover:

Polycarbonate, clear

Reflector:

Polycarbonate, specular aluminised

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring

Central supply

Mains supply:

198V–254V/50Hz

Battery supply:

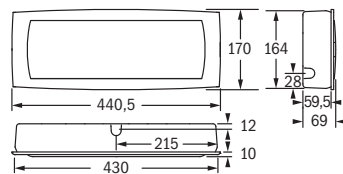
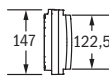
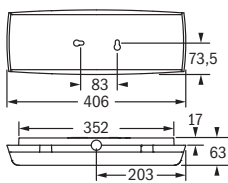
176V–254V

Ambient temperature:

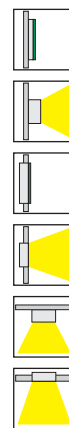
-20 to +40 °C (LED)

-10 to +40 °C (T5)

Protection class: I



Ceiling Cuto





Central supply



Order code	VD	Lamp	Power consumption		Ballast lumen (Battery mode)	Ballast lumen factor		
			AC	DC		EVG	Sleb	Alog
Wall or recessed wall mounted (escape route lighting / single faced escape route lighting), surface or recessed ceiling mounted (escape route lighting)								
TB16032	26m	LED 6W	10.0VA	8.0W	600lm	x		
TB16033	26m	LED 6W	10.0VA	8.0W	600lm		x	
TB16034	26m	LED 6W	10.0VA	8.0W	600lm			x
TB16400	26m	T5 8W	13.2VA	6.8W		100%		
TB16401	26m	T5 8W	13.2VA	6.8W ¹			75%	
TB16406	26m	T5 8W	13.2VA	6.8W ¹				75%
TB16403	26m	TC-SEL 11W	23.7VA	10.6W		100%		
TB16404	26m	TC-SEL 11W	23.7VA	10.6W ¹			75%	
TB16409	26m	TC-SEL 11W	23.7VA	10.6W ¹				75%

¹ Versions Sleb and Alog require an additional power consumption of 1.5 watts for emergency operation.

Fitting supplied complete with

Order code	Description	
VD 26m		
FB16909	Kit of exit sign films T5, TC-SEL	
FB15009	Kit of exit sign films LED	
FB12198	Box for recessed mounting	


Accessories to be ordered separately

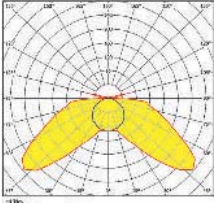
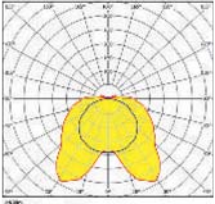
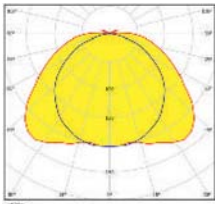
Order code	Description
VD 26m	
FB12193	Kit for recessed mounting in suspended ceilings
FB12194	Wire guard (Wall mounted/ceiling mounted)

Lighting data

Type of lamp Light distribution diagram

Mounting height (m) Spacing (m)



	Light distribution diagram	Mounting height (m)	Spacing (m)							
			1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx
TB16032 TB16033 TB16034		2.5	5.6	6.8	14.0	13.8	8.2	10.0	3.2	4.0
		3.0	5.8	7.4	15.0	14.9	8.6	10.9	3.2	4.2
		3.5	6.3	7.8	16.0	16.0	9.0	11.4	3.2	4.4
		4.0	6.6	8.1	16.8	17.0	9.2	12.0	3.2	4.6
		4.5	6.9	8.8	17.7	17.8	9.3	12.4	3.0	4.6
		5.0	7.1	9.0	18.4	18.6	9.3	12.7	2.9	4.6
		6.0	7.4	9.6	19.7	19.9	9.1	13.1	1.8	4.5
		7.0	-	10.3	-	20.8	-	13.2	-	4.0
		7.5	-	10.3	-	21.1	-	13.2	-	3.6
		8.0	-	10.6	-	21.2	-	13.6	-	3.2
9.0	-	1.6	-	21.1	-	12.5	-	1.6		
10	-	-	-	-	-	-	-	-	-	
TB16400 TB16401 TB16406		2.5	4.5	5.6	11.6	14.7	3.4	4.7	9.1	11.1
		3.0	4.6	6.1	12.3	15.6	3.8	5.0	9.8	12.0
		3.5	4.8	6.3	12.9	16.4	3.9	5.2	10.3	12.9
		4.0	4.9	6.6	13.3	17.1	3.8	5.5	10.7	13.6
		4.5	5.0	6.6	13.6	17.7	3.8	5.5	11.0	14.1
		5.0	5.0	6.9	13.9	18.2	3.8	5.7	11.1	14.6
		6.0	5.2	7.1	14.3	19.0	3.2	5.6	11.1	15.3
		7.0	5.1	7.0	14.4	19.6	2.1	5.5	10.7	15.7
		7.5	5.0	7.2	14.5	19.9	0.9	5.2	10.3	15.7
		8.0	5.6	7.0	15.7	18.0	11.5	17.2	1.7	7.0
		9.0	-	7.1	-	18.7	-	17.2	-	7.1
10.0	-	6.9	-	19.3	-	16.9	-	6.9		
11.0	-	6.8	-	19.8	-	16.5	-	6.8		
TB16403 TB16404 TB16409		2.5	5.3	5.2	13.6	12.3	11.4	12.3	4.6	5.2
		3.0	5.8	5.7	14.6	14.1	12.3	14.1	5.0	5.7
		3.5	6.0	6.1	15.5	15.1	31.1	15.1	5.1	6.1
		4.0	6.4	6.4	16.3	16.0	13.8	16.0	5.5	6.4
		4.5	6.6	6.9	17.0	16.9	14.5	16.9	5.7	6.9
		5.0	6.8	7.0	17.6	17.6	15.1	17.6	5.7	7.0
		6.0	7.1	7.5	18.5	19.0	16.0	19.0	6.0	7.5
		7.0	7.2	7.9	19.3	20.2	16.6	20.2	5.9	7.0
		7.5	7.2	8.1	19.7	20.8	16.7	20.8	5.8	8.1
		8.0	7.2	8.1	20.1	21.3	16.9	21.3	5.6	8.1
		9.0	7.0	8.2	20.6	22.2	17.0	22.2	5.2	8.2
		10.0	6.2	8.2	20.9	22.9	16.8	22.9	4.4	8.2
		11.0	4.4	8.1	20.9	23.4	16.4	23.4	3.6	8.1
		12.0	1.0	7.7	20.5	23.7	15.7	23.7	1.3	7.7
		13.0	-	6.9	-	23.8	-	23.8	-	6.9
14.0	-	6.3	-	23.8	-	23.8	-	6.3		
15.0	-	5.2	-	23.3	-	23.3	-	5.2		



Formula65

Exit sign or emergency luminaire with high protection grade. Shallow body with clear convex shaped clip on diffuser. Lighting control by complex shaped reflector.

Versions available: surface or recessed wall mounted (single faced exit signs). Surface or recessed ceiling mounted, wire pendant and bracket (double faced with display panes)

Special features:

- Multipurpose luminaire serves different applications
- Compact design plus high protection grade
- Long lamp life minimizes maintenance cost
- Easy and quick mounting with integrated level
- Recessed box supplied as standard accessory (concrete wall or ceiling)

¹ Description for the same type of emergency luminaire see page 58



Technical data

Mounting options:

Surfaced ceiling or wall mounting, recessed mounting in ceiling or wall, pendant and bracket (with box for recessed mounting for concrete wall or ceiling IP40)

Body:

Polycarbonate, white (RAL 9003)

Cover:

Polycarbonate, clear

Reflector:

Polycarbonate, white

Display pane:

Methacrylate, printed

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring

Central supply

Mains supply:

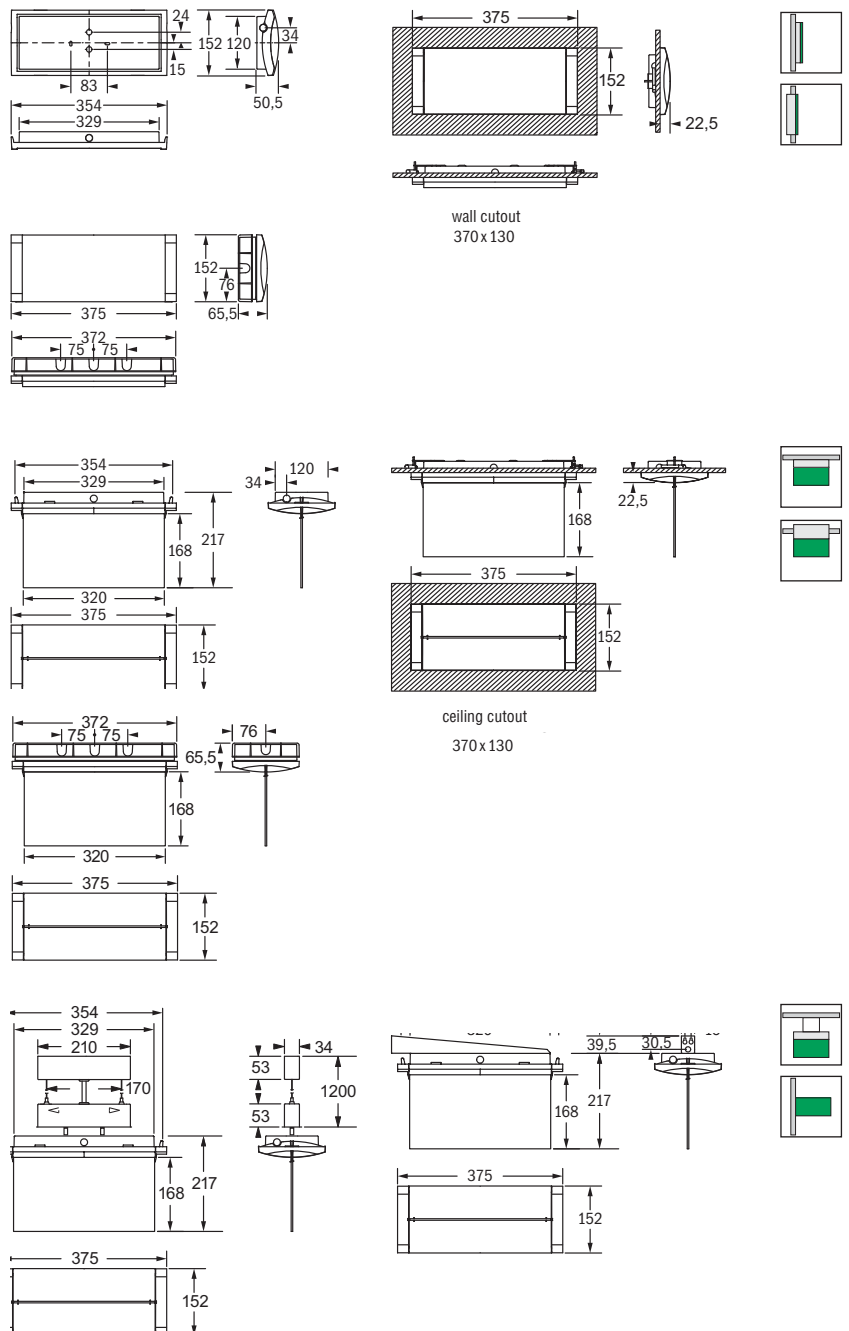
198V–254V/50Hz

Battery supply:

176V–254V

Ambient temperature:

-10 to +40°C



Order code	VD	Lamp	Power consumption		Ballast lumen (Battery mode)	Ballast lumen factor		
			AC	DC		EVG	Sleb	Alog
Wall or recessed wall mounted (single faced lighting), surface or recessed ceiling mounted, pendant or bracket (double faced) ¹								
TB16023	25/30	LED 3.2W	6.0VA	3.8W	340lm	x		
TB16024	25/30	LED 3.2W	7.0VA	4.0W	340lm		x	
TB16025	25/30	LED 3.2W	7.0VA	4.0W	340lm			x

¹ For recessed wall / ceiling mounting in cavity walls or hollow ceilings or pendant mounting please order required accessories separately.

Fitting supplied complete with

Order code	VD 25m	VD 30m	Description
FB19044M	-	-	Kit of exit sign films
FB19040	FB19040	-	Box for recessed mounting for concrete wall or ceiling

Accessories to be ordered separately

Order code	VD 25m	VD 30m	Description
-	-	E16041N-KIT-F65	Exit sign display-pane
-	-	E16040N-KIT-F65	Exit sign display-pane
		F95210	Adaptor for pendant suspension
		F95401	Wire pendant: max. 1200mm
FB19045	-	-	Bracket
FB19041	FB19041	-	Kit for recessed mounting in cavity walls or hollow ceilings
FB12194	-	-	Wire guard (wall mounted version)





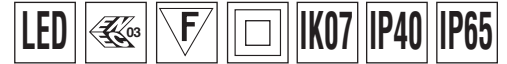
Formula65

Exit sign or emergency luminaire with high protection grade. Shallow body with clear convex shaped clip on diffuser. Lighting control by complex shaped reflector. Versions available: surface or recessed wall mounted, surface or recessed ceiling mounted, pendant mounted

Special features:

- Multipurpose luminaire serves different applications
- Compact design plus high protection grade
- Long lamp life minimizes maintenance cost
- Easy and quick mounting with integrated level
- Recessed box supplied as standard accessory (concrete wall or ceiling)

¹ Description for the same type of exit sign luminaire see page 56



Technical data

Mounting options:

Surfaced ceiling or wall mounting, recessed mounting in ceiling or wall and wire pendant
(with box for recessed mounting for concrete wall or ceiling IP40)

Body:

Polycarbonate, white (RAL 9003)

Cover:

Polycarbonate, clear

Reflector:

Polycarbonate, white

Display pane:

Methacrylate, printed

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring

Central supply

Mains supply:

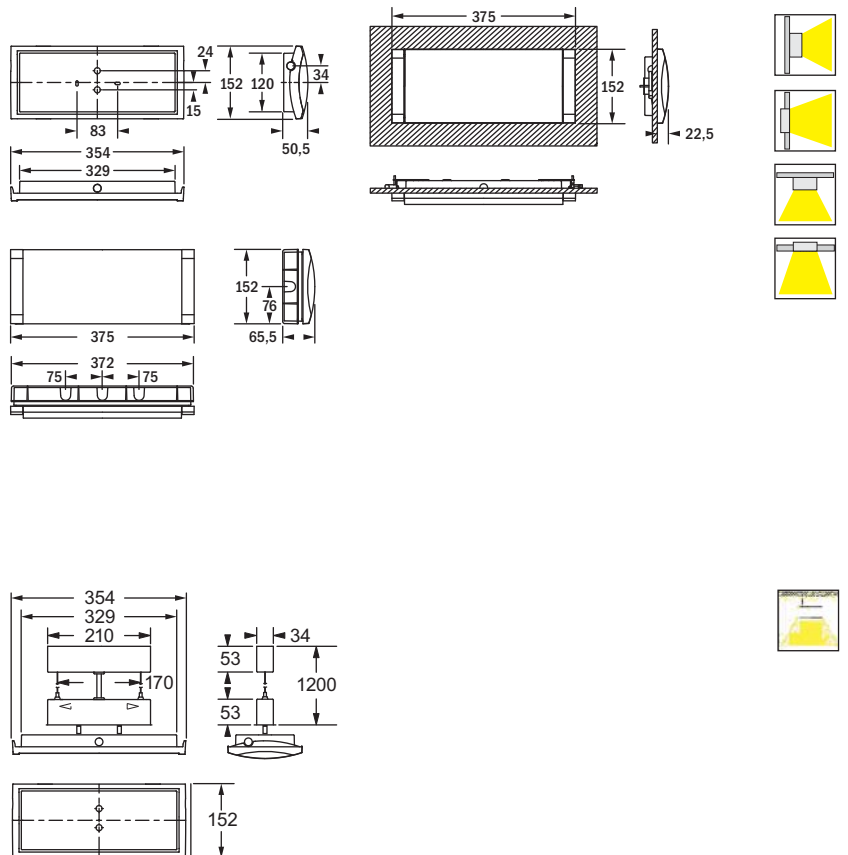
198V–254V/50Hz

Battery supply:

176V–254V

Ambient temperature:


-10 to +40°C



Order code	Lamp	Power consumption		Ballast lumen (Battery mode)	Ballast lumen factor		
		AC	DC		EVG	Sleb	Alog
Wall mounted, surface ceiling mounted, pendant mounted ¹							
TB16023	LED 3.2W	6.0VA	3.8W	340lm	x		
TB16024	LED 3.2W	7.0VA	4.0W	340lm		x	
TB16025	LED 3.2W	7.0VA	4.0W	340lm			x

¹ For recessed wall / ceiling mounting in cavity walls or hollow ceilings or pendant mounting please order required accessories separately.

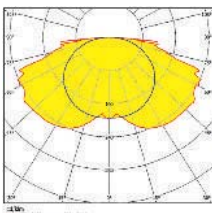
Fitting supplied complete with

Order code	Description
FB19044M	Kit of exit sign films 
FB19040	Box for recessed mounting



Accessories to be ordered separately

Order code	Description
F95210	Adaptor for pendant suspension
F95401	Wire pendant: max. 1200mm
FB19041	Kit for recessed mounting in cavity wall or hollow ceilings
FB12194	Wire guard (wall mounted version)

TB16023		2.5	3.6	4.7	3.3	11.5	12.51	11.7	4.8	4.7
TB16024		3.0	3.8	4.9	9.9	12.3	13.2	12.6	1.9	4.9
TB16025		3.5	3.8	5.1	10.3	13.1	13.7	13.4	4.9	5.1
		4.0	3.8	5.4	10.7	13.7	14.0	13.9	5.1	5.4
		4.5	3.7	5.4	10.9	14.2	14.2	14.4	4.9	5.4
		5.0	3.6	5.6	10.9	14.7	14.4	14.9	4.8	5.6
		6.0	3.0	5.6	10.8	15.2	14.5	15.5	4.3	5.6
		7.0	1.6	5.3	10.3	15.5	14.0	15.9	3.2	5.3
		7.5	-	5.3	-	15.5	-	16.0	-	5.3
		8.0	-	5.1	-	15.4	-	16.0	-	5.1
		9.0	-	4.2	-	15.1	-	15.9	-	4.2
	10.0	-	1.0	-	14.8	-	15.5	-	1.0	



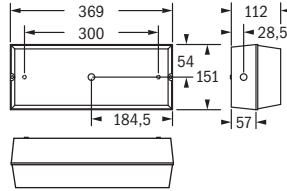
Indus

Exit sign luminaire with industrial design. Rectangular body with opal diffuser. Light distribution by additional reflector. Escape route signs with self adhesive films.

Versions available: wall mounted (single faced), ceiling mounted, bracket, chain or wire suspension (double faced)

Special features:

- Robust design with high protection grade
- Long lamp life minimizes maintenance cost
- Emergency luminaires in identical design are also available



Technical data

Mounting options:

Ceiling surface or wall mounting, bracket, chain or wire suspension

Body:

Polycarbonate, white painted (RAL 9003)

Cover:

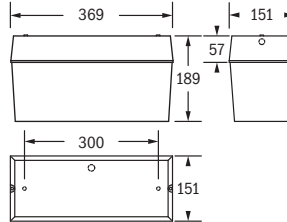
Polycarbonate, opal

Reflector:

Sheet steel, white painted

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring



Central supply

Mains supply:

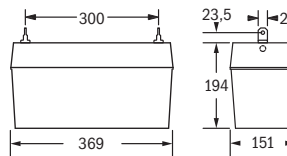
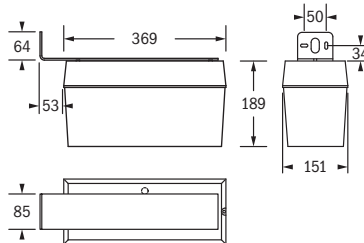
198V–254V/50Hz

Battery supply:

176V–254V

Ambient temperature:

-20 to +40 °C



Order code	VD	Lamp	Power consumption		EVG	Sleb	Alog
			AC	DC			
Wall mounted (single faced escape route lighting)							
T93050_1	26m	LED 3.2W	7.0VA	5.4W	X	X	X
Ceiling surface mounted, chain and bracket mounted (double faced escape route lighting) ²							
T93051_1	26m	LED 3.2W	7.0VA	5.4W	X	X	X

¹ Order code with suffix E = electronic ballast, with suffix S = Sleb, with suffix A = Alog

² For bracket chain / wire suspension additional accessories are required. Please order separately.

Fitting supplied complete with

Order code	Description
VD 26m	
F15314N	Exit sign film
F15313N	Exit sign film
F15312N	Exit sign film

Accessories to be ordered separately

Order code	Description
VD 26m	
F95029	Bracket
FB3723	Adaptor for chain or wire suspension
F95032	Wire guard (wall mounted version)
F95800	IP65-Set (wall mounted version)



Indus

Emergency luminaire with industrial design. Rectangular body with clear diffuser and internal prisms. Lighting control by prismatic diffuser and white reflector.

Versions available: wall mounted, ceiling mounted

Special features:

- Robust design with high protection grade
- Long lamp life minimizes maintenance cost
- Versions for 8 hour duration available
- Exit signs in identical design are also available



Technical data

Mounting options:

Wall or ceiling surface mounting

Body:

Polycarbonate, white (RAL 9003)

Cover:

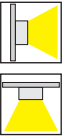
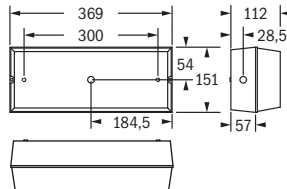
Polycarbonate, clear with internal prism structure

Reflector:

Sheet steel, white painted

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring



Central supply

Mains supply:

198V–254V/50Hz

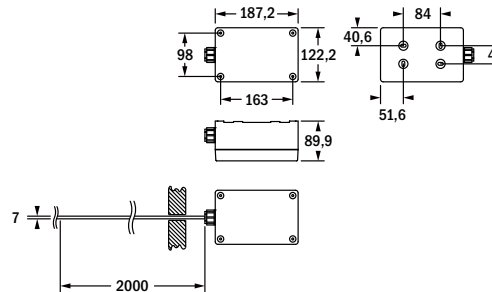
Battery supply:

176V–254V

Ambient temperature:

-20 to +40 °C (LED)

-10 to +40 °C (T5)



Central supply



Order code	Lamp	Power consumption		Ballast lumen (Battery mode)	Ballast lumen factor		
		AC	DC		EVG	Sleb	Alog
Ceiling surface or wall mounted ²							
T93052 ₁	LED 3.2W	7.0VA	5.4W	204lm	x	x	x
T92161 ₁	T5 8W	13.2VA	6.8W ³		100%	75%	75%

¹ Order code with suffix **E** = electronic ballast, with suffix **S** = Sleb, with suffix **A** = Alog

² For ceiling surface mounting, please order required accessories separately.

³ Versions Sleb and Alog require an additional power consumption of 1.5 watts for emergency operation.

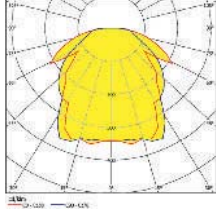
Accessories to be ordered separately

Order code	Description
F95032	Wire guard
F95800	IP65-Set

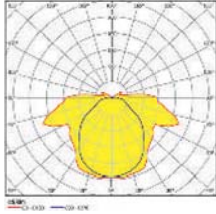
Lighting data

Type of lamp Light distribution diagram

T93052_



T92161_



Mounting height (m)	Spacing (m)							
	1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx
2.5	3.1	3.8	10.1	10.4	8.7	10.4	3.6	3.8
3.0	3.3	3.7	9.9	11.1	9.5	11.1	3.7	3.7
3.5	3.5	3.8	9.0	11.0	10.1	11.0	3.8	3.8
4.0	3.6	3.8	9.4	10.7	10.5	10.7	3.9	3.8
4.5	3.6	3.7	9.8	10.8	10.8	10.8	3.8	3.7
5.0	3.7	3.9	10.2	11.0	11.0	11.0	3.7	3.9
6.0	3.3	4.1	10.3	11.0	11.2	11.0	3.7	4.1
7.0	3.2	4.3	10.4	11.1	10.8	11.1	3.5	4.3
7.5	2.8	4.4	10.2	11.3	10.4	11.3	3.3	4.4
8.0	2.0	4.2	9.8	11.4	10.5	11.4	1.8	4.2
9.0	-	3.9	-	12.0	-	12.0	-	3.9
10.0	-	3.2	-	12.0	-	12.0	-	3.2
2.5	4.0	6.2	12.6	16.2	8.5	10.0	3.3	4.2
3.0	4.1	6.2	12.5	17.3	9.2	11.0	3.6	4.5
3.5	4.2	5.8	11.7	17.8	9.7	11.9	3.6	4.8
4.0	4.1	5.7	11.8	17.9	10.1	12.6	3.7	4.9
4.5	4.2	5.9	12.0	17.4	10.3	13.2	3.2	5.1
5.0	4.0	5.9	12.2	16.6	10.5	13.7	3.6	5.1
6.0	3.7	6.0	12.0	16.8	10.6	14.4	3.4	5.2
7.0	3.4	5.6	11.6	14.1	10.4	14.8	2.9	5.1
7.5	2.9	5.6	11.3	17.2	10.2	14.9	2.4	5.0
8.0	-	4.4	-	12.5	-	12.5	-	4.6
9.0	-	4.2	-	12.7	-	12.7	-	4.2
10.0	-	3.6	-	12.8	-	12.8	-	3.6



Acciaio

Vandal proof exit sign or emergency luminaire with high protection grade with rectangular aluminium body and toughened glass diffuser fixed in aluminium frame. Light distribution control by complex shaped specular reflector.

Versions available: surface or recessed wall mounting (escape route lighting or single faced exit signs), surface or recessed ceiling mounting or bracket suspension (escape route lighting or double faced exit signs)

Special features:

- Vandal proof luminaire with high protection grade
- High resistance against mechanical and chemical aggressive materials
- With optional accessories suitable for ex-proof applications (zone 2-22)
- Self contained versions with integrated magnetic test switch
- Long lamp life minimizes maintenance cost
- Optional version for outdoor installation with remote indoor battery box (wall or ceiling mounted)



Technical data

Mounting options:

Surface or recessed wall or ceiling mounting and bracket suspension

Body: Die cast aluminium, painted grey (RAL 7035)

Cover: Die cast aluminium, painted grey (RAL 7035)

Pane: Toughened glass

Reflector: Specular aluminium

Film: Acrylic, printed

Display pane: Methacrylate, printed

Terminals: Push wire terminals 2.5mm² suitable for in-out wiring

Central supply

Mains supply:

198V–254V/50Hz

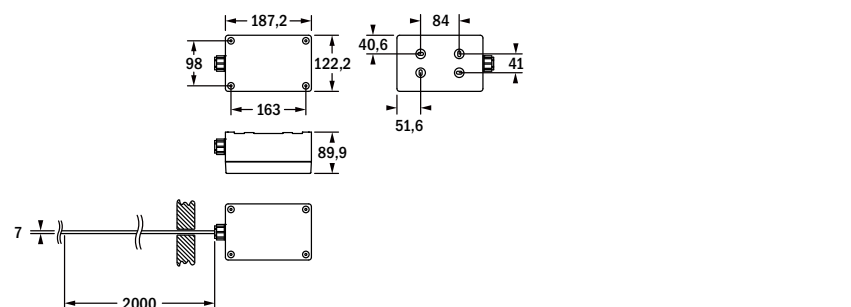
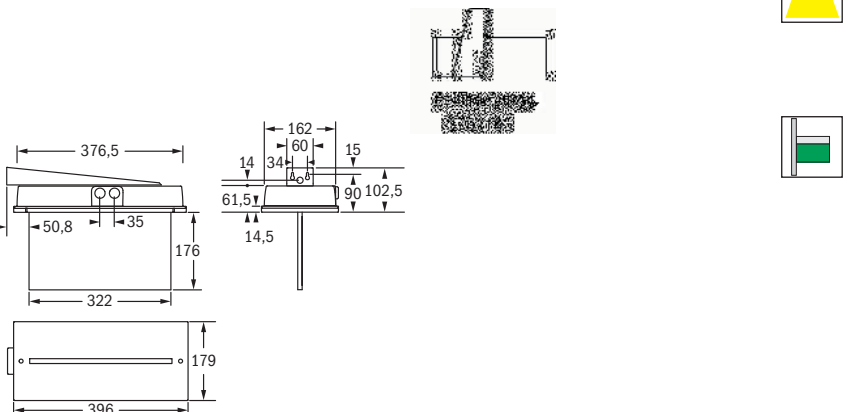
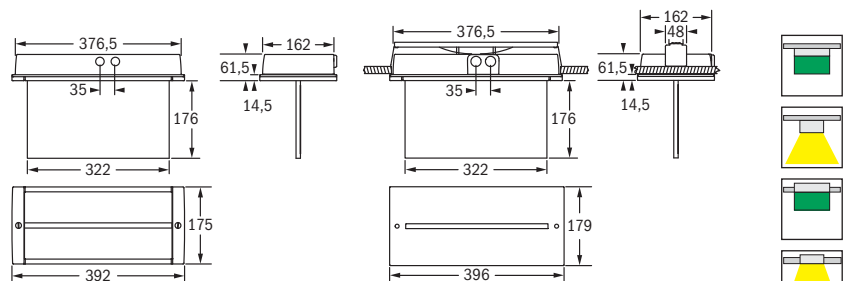
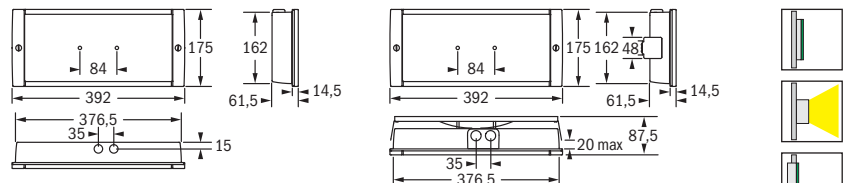
Battery supply:

176V–254V

Ambient temperature:

-20 to +40°C

Protection class: I





Triangle

Emergency luminaire with shallow triangular body and integrated shutters. Body made of sheet steel, optional stainless steel.

Versions available: surface wall mounted or surface floor mounted to be used for escape route lighting

Special features:

- Robust design with high protection grade
- Long lamp life minimizes maintenance cost
- Suitable for outdoor applications
- Optional bollard for outside use available (central supply), bollard only suitable for surface floor mounting.



Technical data

Mounting options:

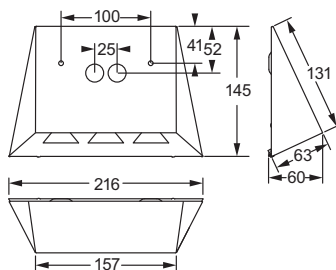
Surface wall mounting, surface floor mounting

Body:

Sheet steel, white painted (RAL 9003)
optional stainless steel

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring



Central supply

Mains supply:

198V–254V/50Hz

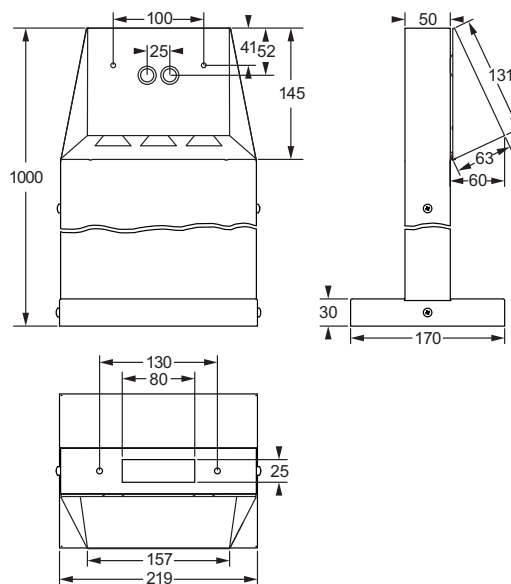
Battery supply:

176V–254V

Ambient temperature:

-20 to +40°C

Protection class: I



Order code	Lamp	Power consumption		Ballast lumen (Battery mode)	EVG	Sleb	Alog
		AC	DC ²				
Wall surface mounted, floor surface mounted ³							
TM92930_1	LED 3 x 1W	10.2VA	4.6W	180lm	x	x	x

Stainless steel version

Wall surface mounted, floor surface mounted³

TM92931_1	LED 3 x 1W	10.2VA	4.6W	180lm	x	x	x
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¹ Order code with suffix E = electronic ballast, with suffix S = Sleb, with suffix A = Alog

² Versions Sleb and Alog require an additional power consumption of 1.0 watt for emergency operation.

³ For floor surface mounting additional accessories are required. Please order separately.

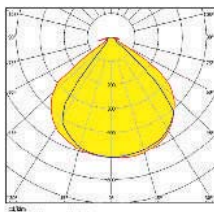
Accessories to be ordered separately

Order code	Description
F95240	Bollard, angular, length 1000mm
F95241	Bollard stainless steel, angular, length 1000mm

Lighting data

Type of lamp Light distribution diagram

TM92930_
TM92931_



Mounting height (m) Wall mounted	Spacing (m)							
	L1	L2	L3	L4	L5	L6	L7	L8
1.5	-	-	-	-	3.2	-	1.4	-
2.0	-	-	-	-	3.9	-	1.7	-
2.5	-	-	-	-	4.6	-	1.9	-



Intos

Exit sign or emergency luminaire, for recessed mounting. Recessed box with frame and clear or printed pane. Light direction through white reflector.

Available versions: recessed wall mounting (lighting or single faced marking by exchangeable pane) and recessed ceiling mounting (lighting)



Technical data

Mounting options:

Recessed ceiling or recessed wall mounting

Body:

Zinc plated steel

Cover:

Sheet steel, white painted (RAL 9003)

Pane:

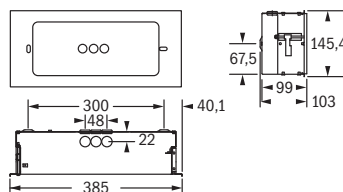
PMMA, clear, prismatic on inside resp. printed

Reflector:

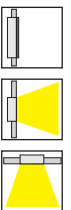
Sheet steel, white

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring



Leilina-Cuto



Central supply

Mains supply:

198V–254V/50Hz

Battery supply:

176V–254V

Ambient temperature:

-20 to +40 °C

Central supply



Order code	VD	Lamp	Power consumption		Ballast lumen (Battery mode)	EVG	Sleb	Alog
			AC	DC				
T93110_1	26m	LED 2.1W	6.0VA	3.8W	144lm	x	x	x

¹ Order code with suffix E = electronic ballast, with suffix S = Sleb, with suffix A = Alog

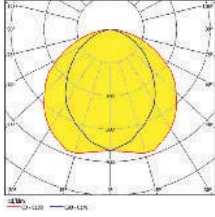
Accessories to be ordered separately

Order code	Description
VD 26m	
E16266N	Exit sign pane
E16267N	Exit sign pane
E16268N	Exit sign pane
E16265	Opal plastic pane

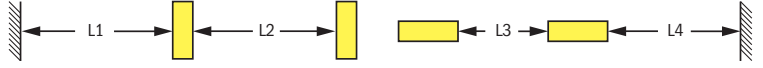
Lighting data

Type of lamp Light distribution diagram

T93110_



Mounting height (m)	Spacing (m)							
	1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx	1.0lx	0.5lx
2.5	2.9	2.9	7.5	7.5	6.1	7.5	2.3	2.9
3.0	2.9	3.2	7.9	8.0	6.5	8.0	2.4	3.2
3.5	2.9	3.2	8.2	8.5	6.7	8.5	2.3	3.2
4.0	2.8	4.0	8.3	8.8	6.8	8.8	2.2	3.3
4.5	2.5	3.3	8.3	9.1	6.7	9.1	1.9	3.3
5.0	2.3	3.1	8.3	9.3	6.6	9.3	1.4	3.1
6.0	-	3.8	-	9.4	-	9.4	-	2.9
7.0	-	3.2	-	9.2	-	9.2	-	2.1
7.5	-	2.7	-	9.0	-	9.0	-	1.4
8.0	-	1.5	-	8.7	-	8.7	-	0.4
9.0	-	-	-	-	-	-	-	-
10.0	-	-	-	-	-	-	-	-





Quader

Exit sign luminaire luminaire with square body and cubicle diffuser. 3 sided exit sign. Versions available: ceiling surface mounting, pendant, wire or chain suspension (three sided escape route lighting).



Technical data

Mounting options:

Ceiling surface mounting, pendant, wire or chain suspension

Body:

Sheet steel, white painted (RAL 9003)

Cover:

Methacrylate, opal

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring

Central supply

Mains supply:

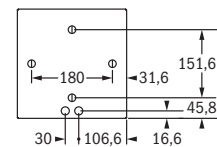
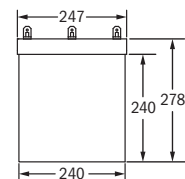
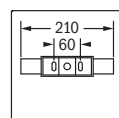
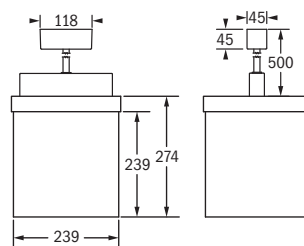
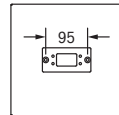
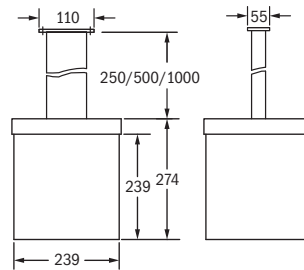
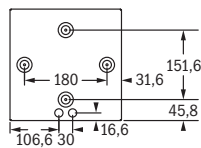
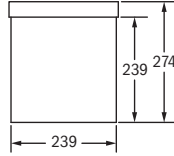
198V–254V/50Hz

Battery supply:

176V–254V

Ambient temperature:

-20 to +40 °C




Order code	VD	Lamp	Power consumption		EVG	Sleb	Alog
			AC	DC			
Ceiling surface mounted, pendant and chain mounted (three sided escape route lighting) ²							
T93090_1	44m	LED 2W	6.0VA	3.8W	X	X	X

¹ Order code with suffix E = electronic ballast, with suffix S = Sleb, with suffix A = Alog

² Additional accessories for ceiling mounting, pendant and bracket suspension required. Please order separately.

Fitting supplied complete with

Order code	Description
VD 44m	
F15330	Exit sign film 
F15331	Exit sign film 
F15332	Exit sign film 

Accessories to be ordered separately

Order code	Description
VD 44m	
F95210	Adaptor for pendant rod
F95600	Rectangular pendant: 250 mm
F95601	Rectangular pendant: 500 mm
F95602	Rectangular pendant: 1000 mm
F95401	Wire suspension: max. 1200mm
F95400	Pendant rod: 500 mm
F95406	Adaptor for chain or wire suspension



Nano

Exit sign luminaire with rectangular body, clear corners and 3 integrated frames. Escape route indication by changeable display panes. Wall mounted luminaires offer up and downlight distribution, surface mounted luminaires offer downlight only.

Versions available: wall mounted (single faced), ceiling surface mounted (double faced)



Technical data

Mounting options:

Surface wall or ceiling mounting

Body:

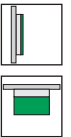
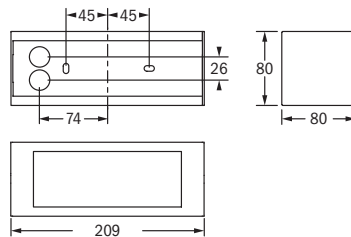
Sheet steel, white painted (RAL 9003)

Pane:

Opal methacrylate, printed

Terminals:

Push wire terminals 2.5mm² suitable for in-out wiring



Central supply

Mains supply:

198V–254V/50Hz

Battery supply:

176V–254V

Ambient temperature:

-20 to +40°C

Central supply



Order code	VD	Lamp	Power consumption			EVG	Sleb	Alog
			AC	DC				
T93120_1	12m	LED 2W	6.0VA	3.8W		x	x	x

¹ Order code with suffix E = electronic ballast, with suffix S = Sleb, with suffix A = Alog

Accessories to be ordered separately

Order code	Description	
E16632N	Exit sign pane	
E16631N	Exit sign pane	
E16630N	Exit sign pane	
E16634	Opal plastic pane	
E16635	Metal sheet painted in body color	

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Symbols



Exit sign luminaire for surface wall mounting



Exit sign luminaire for recessed wall mounting



Exit sign luminaire for surface ceiling mounting



Exit sign luminaire for recessed ceiling mounting



Exit sign luminaire for pendant mounting



Exit sign luminaire for bracket mounting



Exit sign luminaire for chain or wire suspension



Emergency luminaire for surface wall mounting



Emergency luminaire for recessed wall mounting



Emergency luminaire for surface ceiling mounting



Emergency luminaire for recessed ceiling mounting



Level of protection against external factors
(According to IEC EN 60529)



Protection against electric shock rate I



Fixtures with insulation Class II. Fixtures without this symbol must be considered Class I



Fixtures suitable for installation on normally flammable surfaces.



Code for protection level provided with covers of electric appliances against the exterior mechanical impact



Certificate ENEC 21 (EZÚ Prague)
Certificate ENEC 03 (IMQ Italy)



LED lamp



Fluorescent lamp T5, 16mm



Fluorescent lamp T8, 26mm



Product according to ATEX Norm 94/9/CE suitable for zone 02-22



Maximum visibility distance of safety signs according to UNI EN 1838



Central supply version



Reduced battery drain



Reduced battery capacity

disclaimer

Beghelli PRÄZISA GmbH is constantly developing and improving the product range. All descriptions, illustrations, drawings and specifications present only general particulars and shall not form part of any contract. The right is reserved to change specifications without prior notification or public announcement.

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