



Compact Emergency Light Fittings

6108 Series (Zone 1)

6508 Series (Zones 2, 21, 22)



Series 6108 and 6508 compact emergency lighting fitting can be used for safety illumination, but also as information or emergency exit sign lights.

- With electronic ballast and integratal emergency light electronics
- For continuous emergency operation 1.5 h
- Operating modes:
 - Non-maintained operation
 - Non-maintained operation with switchable emergency light blocking
 - Maintained operation
- With self-test functions
- Intelligent charging technique
- Central locking
- With deep discharge protection and charging voltage limitation
- For fluorescent lamps 8 W, Ø 16 mm, for two-pin holder G5
- Suitable for wall and ceiling mounting
- Can be fitted to order with emergency exit signs
- All-pole disconnection by N/C switch when cover is opened (6108 Series)
- Housing in polyester resin; cover in polycarbonate

To learn more about B-I-A please visit us at our
WEB site: www.BiaGmbH.com



Selection table

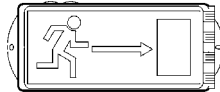
Version	Lamps	Emergency light duration test	Battery capacity Ah	Emergency light operation time h	Ordering code	Weight kg
C-LUX 6108 for Zone 1	1 x 8 W	with	4	1,5	6108/1081-80.7-...	3,500
	1 x 8 W	without	4	1,5	6108/1081-80.8-...	3,500
C-LUX 6508 for Zones 2, 21, 22	1 x 8 W	with	4	1,5	6508/1081-80.7-...	3,500
	1 x 8 W	without	4	1,5	6508/1081-80.8-...	3,500

Add. to ordering code

Cable entries	Standard: 1 x Cable gland M 25 x 1.5 2 x Plugs M 25 x 1.5	6.08/.....1...
	Special: Specify non-standard entries in writing	6.08/.....9...

Emergency exit sign needed only when used as information lights or escape sign lights; With adhesive symbols positioned as follows:

Emergency exit signs (other signs please see next page) Mounting position Standard



A

Special please specify other positions in writing

Please specify emergency exit sign number (see below)

Symbol complying with VGB 125, DIN 4844, DIN 5035; recognition distance e = 30 m; size 150 mm x 355 mm

	Colours	Sign Background	white green	6.08/.....-60
	Colours	Sign Background	white green	6.08/.....-61
	Colours	Sign Background	white green	6.08/.....-62
	Colours	Sign Background	white green	6.08/.....-91
	Colours	Sign Background	green white	6.08/.....-71
	Colours	Sign Background	red white	6.08/.....-81

Add. to ordering code

Emergency exit sign	Colours	Sign Background	white green	6.08 / - -92
	Colours	Sign Background	green white	6.08 / - -72
	Colours	Sign Background	red white	6.08 / - -82
	Colours	Sign Background	white green	6.08 / - -90
	Colours	Sign Background	green white	6.08 / - -70
	Colours	Sign Background	red white	6.08 / - -80
	Colours	Sign Background	white green	6.08 / - -93
	Colours	Sign Background	green white	6.08 / - -73
	Colours	Sign Background	red white	6.08 / - -83

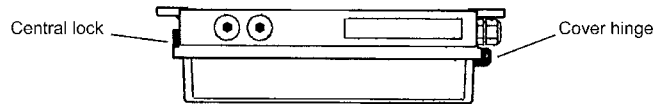
Note When delivered, light fittings are wired for maintained operation. By removing a bridge and connecting an external switch, the light fitting is converted to maintained operation with switchable emergency lighting. Fittings are supplied without lamps, which must be ordered separately. Further escape and information signs available on request.

Technical Data

Version	6108 (Zone 1)	6508 (Zones 2, 21, 22)
Explosion protection		
Gas explosion protection	⊕ II 2 G EEx edm IIC T4	⊕ II 3 G EEx nA II T4 (Zone 2)
Dust explosion protection	for Zones 21 and 22: ⊕ II 2 D IP66 T135 °C	for Zone 22: ⊕ II 3 D IP66 T135 °C
Certificates		
for gas explosion protection	PTB 97 ATEX 2161	ASEV 99.1 10381.01
for dust explosion protection	LCIE 02 ATEX 6239	--
Marking	CE 0102	
Lamps	1 x 8 W; two-pin fluorescent lamps, 8 W, 16 mm dia., for G5 holder	
Ballast	Electronic ballast, single channel with integral emergency light electronics	
Rated voltage	AC: 220 V - 10 % ... 254 V + 6 %; 50 Hz / 60 Hz	
Rated current	0,15	
Back-up fuse for battery set	4 A, equipment fuse 8560/51	
Ambient temperature		
Charging	- 5 °C ... +50 °C	

Technical Data

Lighting operation	- 20 °C ... + 50 °C
Material	
Housing	glass fibre reinforced polyester resin; colour: white, similar to RAL 9010
Cover	Polycarbonate
Gaskets	Polyurethane; foamed into cover
Protection class	I (with internal PE connection terminal)
Degree of protection	IP 66 / IP 67
Cover fixing	Central locking using socket spanner M 8 / SW 13; cover hinged for access



Disconnection

Version	6108 (Zone 1)	6508 (Zones 2, 21, 22)
of light fitting on opening	Central locking device with safety interlock; switch 8080 with N/C contacts; when central lock is opened, voltage to ballast is disconnected on both poles; a safety interlock in switching mechanism prevents fitting from being reconnected while cover and central lock are open.	No switching-off when opening light fitting

Faulty lamp If lamp is faulty power supply is automatically switched off by electronic ballast

Connection

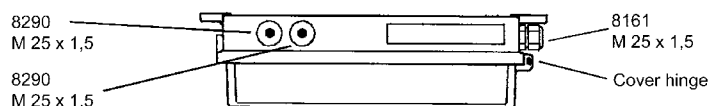
Terminal block	in Polyamide with terminal cover
Marking	L; N; PE
Terminal size	2 x 4 mm ² for solid cores 2 x 2.5 mm ² for flexible cores

Light guides

Reflector painted white;
Cover with prism structure, providing directed light from the fitting

Cable entries

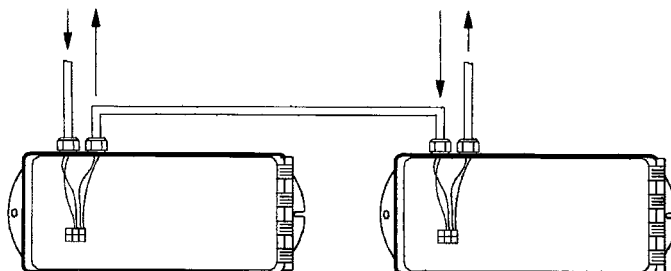
Standard 1 cable entry 8161 in plastic M 25 x 1.5 and 2 plugs 8290 in plastic, M 25 x 1.5



Special Other entries in moulded plastic or metal are available to order, details available on request

Installation notes

Looping through of cables 2 leads can be connected to each terminal on the input side, making fittings suitable for looped connection.



Mounting Can be wall- or ceiling-mounted

Betriebsarten

Mains operation for general lighting or as information lights;
Emergency operation: fed from battery-set built into emergency lighting fitting when used for escape route illumination or as emergency exit sign lighting.

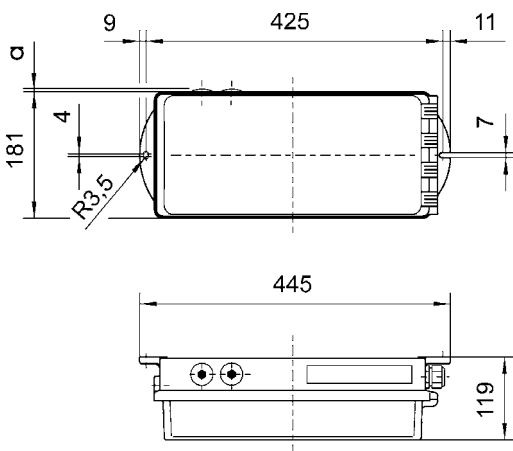
Technical Data

Capacity	4 Ah
Operating voltage	3,6 V
Charging battery set	When the central lock is opened the battery set is de-energized; it can be removed from the housing by unplugging its removable contact.

Emergency exit signs

Use	for information and escape sign fittings
Material	Foil, self-adhesive, printed with various pictograms in different colours
Recognition distance	e = 30 m
Mounting	Foil is stuck to cover externally
Options	The various types of adhesive foil which can be supplied are detailed in table "Accessories and Spare parts"

Dimension drawings (all dimension in mm) - subject to alteration



Additional dimensions for cable entries 8161 and plugs 8290

	a (mm)
8161 M 25 x 1.5	32
8290 M 25 x 1.5	6

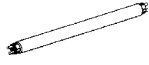
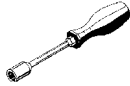
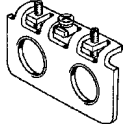
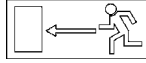
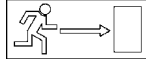
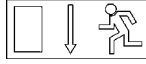














Emergency exit sign

To learn more about B-I-A please visit us at our
WEB site: www.BiaGmbH.com



Accessories and spare parts

Designation	Illustration	Description	Ordering code	Weight kg	
Fluorescent lamps		8 W, \varnothing 16 mm, for two-pin G5 holder	6100801210	0,300	
		Colour of light cool white Light flux 450 lm 10 pc			
Socket spanner		M 8 / SW 13; to operate central locking	8198005400	0,126	
Adapter plate		for use with metal cable glands which are integrated into the earthing system via the stainless steel adapter plates			
		2 x M 20 x 1.5 1 pc	6000819550	0,060	
Emergency exit sign		white green	1 pc	5203600	0,010
		white green	1 pc	5203610	0,010
		white green	1 pc	5203620	0,010
		white green	1 pc	5203910	0,010
		green white	1 pc	5203710	0,010
		red white	1 pc	5203810	0,010
		white green	1 pc	5203920	0,010
		green white	1 pc	5203720	0,010
		red white	1 pc	5203820	0,010
		white green	1 pc	5203900	0,010
	green white	1 pc	5203700	0,010	
	red white	1 pc	5203800	0,010	
	white green	1 pc	5203930	0,010	
	green white	1 pc	5203730	0,010	
	red white	1 pc	5203830	0,010	

We reserve the right to make alterations to the technical data, weights, dimensions, designs and products available without notice. The illustrations cannot be considered binding.