

Compact Emergency Light Fittings Series C-LUX 6108

- Can be used in Zone 1 and Zone 2
- With electronic ballast and integratral emergency light unit
- For continuous emergency operation 1 h or 1.5 h
- Operating modes
 - Non-maintained operation
 - Non-maintained operation with switchable emergency light blocking
 - Maintained operation
- With or without self-test function
- 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
- Central locking
- All-pole disconnection via N/C switch when fitting is opened
- Enclosure in polyester resin; cover in polycarbonate

STAHL

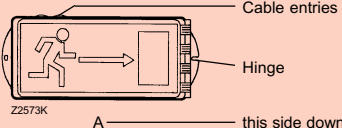
Series **C-LUX 6108** compact emergency lighting fitting can be used for safety illumination, but also as information or emergency exit sign lights.

Zone 1 and Zone 2

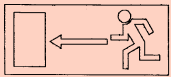
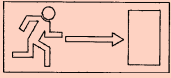
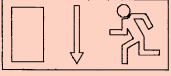




Selection table

Version	Lamp	Self-test function	Battery capacity	Emergency light duration	Rated voltage	Ordering code	Weight [kg]
C-LUX 6108 Compact emergency light fitting for Zone 1 and Zone 2	1 x 8 W	with	2 Ah	1 h	AC (50 / 60 Hz)	6108/1081-80 □3-□□	3,2
	1 x 8 W	without	2 Ah	1 h		6108/1081-80 □4-□□	3,2
	1 x 8 W	with	4 Ah	1,5 h	220 V - 10% ... 254 V + 6%,	6108/1081-80 □7-□□	3,5
	1 x 8 W	without	4 Ah	1,5 h		6108/1081-80 □8-□□	3,5

Add. to ordering code


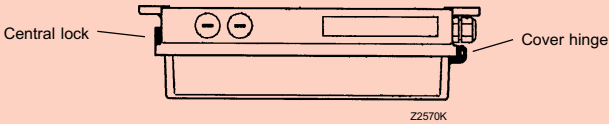
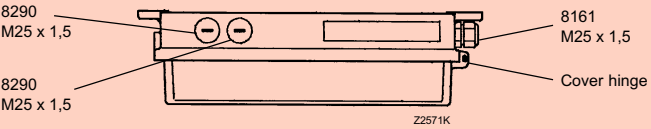
Cable entries	Standard: 1 x cable gland M25 x 1,5 2 x plugs M25 x 1,5 Special: specify non-standard entries in writing	↑ 1 9
Emergency exit	only needed when used as information or escape sign lighting; With adhesive symbols positioned as follows. Mounting position Standard  Special: Please specify other positions in writing Please specify emergency exit sign number (see below)	□□

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

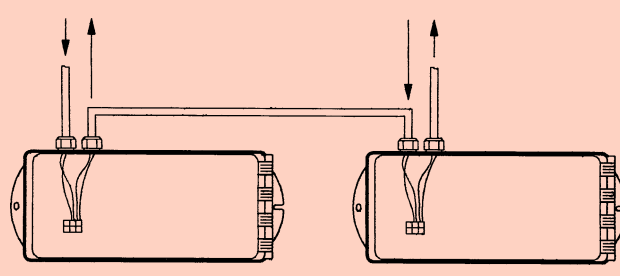
Illustration	Colours Sign			Background		Order No. suffix: Emergency exit sign No.
	white	green	red	white	green	
 Z2576K	X				X	60
 Z2574K	X				X	61
 Z2576K	X				X	62
 Z2577K	X				X	91
		X		X		71
			X	X		81
 Z2578K	X				X	92
		X		X		72
			X	X		82
 Z2579K	X				X	90
		X		X		70
			X	X		80
 Z2580K	X				X	93
		X		X		73
			X	X		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	
Marking	CE
Explosion protection	 II 2 G Ex eds IIC T4
Test certificate	PTB No. 97 ATEX 2161
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 A
Back-up fuse for battery set	5 A, equipment fuse 8560/71
Working frequency	30 kHz ... 35 kHz
Ambient temperature charging	- 5 °C ... + 50 °C
lighting operation	- 20 °C ... + 50 °C
Material	
Enclosure	glass fibre reinforced polyester resin; Colour: white, similar to RAL 9010
Cover	Polycarbonate
Gasket	Polyurethane; foamed into cover
Protection class	I (with internal PE terminal)
Degree of protection	IP 66 / IP 67
Cover lock	<p>Central locking using socket spanner M8/SW13; cover hinged for access. Ballast supply, charging and battery circuit disconnected when central lock is opened.</p> 
Connections	Terminal block in polyamide with terminal cover
Terminal marking	L; N; PE; L ¹ L ¹ = charging phase charging phase must be connected at all times
Terminal size	2 x 4 mm ² , for solid cores 2 x 2,5 mm ² , for flexible cores
Light guide	Reflector painted white; Cover with prism structure, providing directed light from the fitting
Disconnection of light fitting on opening	<p>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.</p>
faulty lamp	If lamp is faulty power supply is automatically switched off by electronic ballast
Cable entries	
Standard	<p>1 cable entry 8161 in plastic, M25 x 1,5 and 2 plugs 8290 in plastic, M25 x 1,5</p> 
Special	Other entries in moulded plastic or metal are available to order, details available on request



Technical data																		
Installation notes Looping through of cables	2 leads can be connected to each terminal on the input side, making fittings suitable for looped connection.  <p style="text-align: right; font-size: small;">Z2572K</p>																	
Mounting	Can be wall- or ceiling-mounted																	
Operating modes	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.																	
Emergency light electronics	Incorporated in one housing with electronic ballast unit																	
Options	Emergency lighting electronics are available: with or without automatic self-test function; in maintained operation or maintained operation with switchable emergency lighting blocking.																	
Interference suppression	to DIN EN 55015																	
Self-test function	C-LUX 6108 is available with or without self-test function. The built-in self-test functions are activated as soon as light is connected to mains and automatically repeated after pre-set time has elapsed.																	
Operating test	Weekly test of emergency light function; battery and lamp faults are recognized and indicated via red LED.																	
Emergency light duration test	Testing of battery capacity at intervals of 3 months; operating of fitting in emergency light mode for 2.3 rd of rated operating time. If the fitting is switches off by the discharge protection before time has elapsed. Battery cannot be used longer for emergency operation. Fault is indicated via red LED.																	
Function indicators	1 red LED and 1 green LED, incorporated in reflector; can be seen from outside through cover.																	
Displays	<table border="1"> <thead> <tr> <th>LED</th> <th>Indication</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td rowspan="3">green</td> <td>On</td> <td>Charging current flowing; everything ok</td> </tr> <tr> <td>flashing 1 : 1</td> <td>Emergency light duration test running</td> </tr> <tr> <td>twinkling 1 : 10</td> <td>Automatic function test running</td> </tr> <tr> <td rowspan="3">red</td> <td>On</td> <td>Rechargeable battery capacity insufficient; battery replacement necessary</td> </tr> <tr> <td>flashing 1 : 1</td> <td>Battery discharged; not operational</td> </tr> <tr> <td>twinkling 1 : 10</td> <td>Battery defective</td> </tr> </tbody> </table>	LED	Indication	Function	green	On	Charging current flowing; everything ok	flashing 1 : 1	Emergency light duration test running	twinkling 1 : 10	Automatic function test running	red	On	Rechargeable battery capacity insufficient; battery replacement necessary	flashing 1 : 1	Battery discharged; not operational	twinkling 1 : 10	Battery defective
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Battery charging	current-regulated constant current charging, duration 20 h, then changeover to trickle charging.																	
Exhaustive discharge protection	at $U_{\text{Batt}} = 1 \text{ V/cell}$ (3 V); emergency light electronics automatically switches light off (DIN VDE 0108)																	
Charging voltage limit	when a battery voltage of 1,55 V / cell (4,65 V) is reached, charging ceases																	
Emergency light operating period	Battery capacity	Emergency light operation time																
	2 Ah	1 h																
	4 Ah	1,5 h																

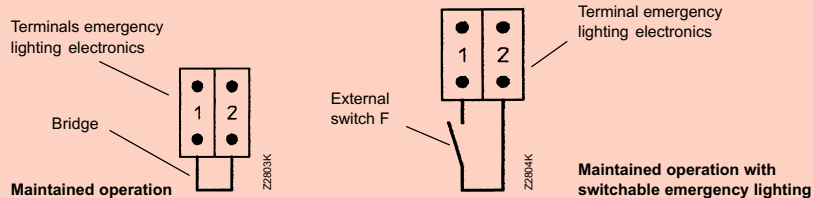
Technical data (Continuation)

Emergency light electronics

(Continuation)

Maintained operation,
Maintained operation with
switchable emergency
lighting

When delivered the light fitting is wired for maintained operation; by removing the bridge between terminals 1 and 2 and connecting external switch F, the fitting is converted to maintained operation with switchable emergency lighting.



Maintained operation
(function)

On failure of supply to general lighting, fitting is supplied from the battery, irrespective of the light switch position.

Maintained operation
with switchable emergency
lighting

On failure of power supply to general lighting, fitting switches to emergency lighting operation only if external switch F is closed. To switch emergency lighting centrally to "ready" or "not ready", e.g. depending on plant operating times. The external switch has a potential-free NO contact.

Non-maintained operation

Emergency lighting is only operative when general lighting has failed; it is then supplied from the battery.
Connections: L', N, PE (phase L not connected)

Changeover voltage
from mains to battery
operation
from battery to mains
operation

at $U < 0,6 \times U_N$

at $U > 0,9 \times U_N$

Lighting power on emergency
operation

Emergency light operation time

Emergency light power

1 h

55%

1,5 h

70%

Battery set

built into light fitting

Type

NiCd battery, gas tight

Capacity

2 Ah or 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 sign

Use

for information and escape sign fittings

Material

Foil, self-adhesive, printed with various pictograms in different colours

Recognition distance

e = 30 m

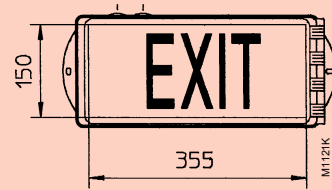
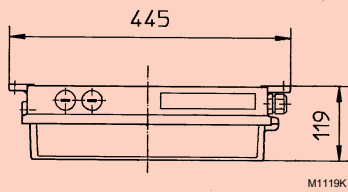
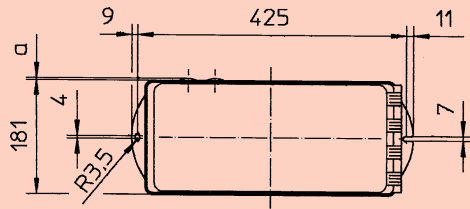
Mounting

Foil is stuck to cover externally

Options

The various types of adhesive foil which can be supplied are detailed on page 7/27

Dimensions (in mm)

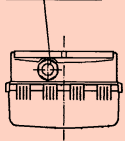


Emergency exit sign

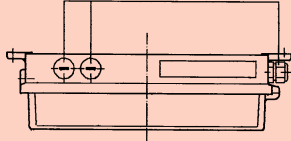
Additional dimensions
for cable entries 8161
and plugs 8290

	a [mm]
8161 M25 x 1,5	32
8290 M25 x 1,5	6

M 25x1,5

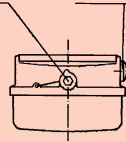


M 25x1,5



SW 13

M 25x1,5



Positions of cable gland and plugs