

Emergency Light Fittings for Fluorescent Lamps

Series ECOLUX 6608



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- > For fluorescent lamps 2 x 18 W and 2 x 36 W
- > For emergency light operation periods of 1.5 or 3 hrs
- > During emergency time: If emergency lamp broken changing to the other lamp
- > Battery case which can be opened separately for easy change of batteries by means of plug-type contacts
- > Enclosure closed by means of quick-action locks

E2



09379E00

The single-battery-supplied emergency lamps of the Series ECOLUX 6608 lighting are employable as safety lighting in accordance EN 60598.

		ATEX/IECEX							NEC 505			NEC 506				NEC 500						
		0	1	2	20	21	22			Class I							Class I		Class II		Class III	
Zone								Zone	0	1	2	20	21	22	Division	1	2	1	2	1	2	
For use in				x		x	x	For use in			x				For use in		x	x	x	x	x	x

WebCode 6608B

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Selection Table

Version	Lamps	Lamp activation	Order number	Weight kg
ECOLUX 6608 Zone 2, 21, 22	2 x 18 W	2-channel	6608/522-9..1-7247	6.500
	2 x 36 W	2-channel	6608/542-9..1-7247	8.000

Order Number Supplement

Through wiring	without (standard)	6608/.....0.....	
	Special: With 6-cores	6608/.....6.....	
Cable entries	Standard: M25 x 1.5 1 Cable gland 2 Stopping plugs	6608/.....1.....	
	Special M20 or M25 of moulded material or metal to be specified with order	6608/.....9.....	

Note The lights are delivered without fluorescent lamps and assembly parts. These parts must be ordered separately!

Explosion protection

Explosion protection

Global (IECEX)
Gas and dust

IECEX BVS 11.0032X
EX nA IIC T4 Gc or EX nAc IIC T4
Ex tb IIIC T90°C Db or Ex tb IIIC T90°C
Ex tc IIIC T90°C DC or Ex tc IIIC T90°C

Europe (ATEX)
Gas

BVS 03 E 093 X
⊕ II 3 G Ex nA IIC T4 Gc or ⊕ II 3 G Ex nAc IIC T4

Dust

BVS 03 ATEX E 094 X
⊕ II 2D Ex tb IIIC T90°C Db or ⊕ II 2D Ex tb IIIC T90°C

* T90 °C = max. surface temperature referred to 18 W, 36 W; Ta = + 40 °C

Certifications and certificates

Certificates

ATEX, IECEX, United States of America (FM), Canada (CSA), Belarus (operating licence)

Technical Data

Electrical data

Rated voltage

220 V ... 254 V; 50/60 Hz for lamps acc EN60081
110 V ... 127 V; 50/60 Hz for lamps acc EN60081
120V; 50/60 Hz for lamps acc ANSI (IECEX only)

Disconnection of the light

Optionally

when opening the lamp cover

when opening the locking mechanism on one of the quick-action locks, all poles of the voltage supply to the ballast are disconnected; contacts of the switching element with positive break, they are switched on again as soon as the lamp cover and the quick-action lock are closed.

in case of a lamp fault

in case of a lamp fault, the electronic ballast disconnects the defective lamp from the power supply.

Luminous Characteristics

Lamps

2 x 17/18 W

2 x 32/36 W

Lamp version

2-lamp

2-lamp

without auxiliary reflector

with auxiliary reflector

Class according to LitG

B21

B31

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E2

Technical Data																
Measures for light guidance	Standard Broad reflective, internal reflector of light fitting painted white. Colour: Signal white RAL 9003; lateral glare is limited by the lamp diffuser cover. Special Auxiliary reflector (easily mountable), narrow-angle / wide-angle shining, aluminium anodised and polished.															
Ambient conditions																
Standard operation	- 25 ... + 50 °C															
Battery operated	- 5 ... + 50 °C charge - 25 ... + 50 °C discharge															
Mechanical data																
Degree of protection	IP66 (IP64 with Breather 8162)															
Protection class	I (with internal PE connection)															
Material																
Enclosure	Polyester resin, glass fibre reinforced, colour white, similar to RAL 9010															
Lamp cover	Polycarbonate, shock-resistant, as an option an aromatic-resistant paint can be used															
Seal	Silicone foam gasket in the lamp cover															
Quick-acting locks	Polyamide, glass fibre reinforced															
Assembly parts	Polyester resin, glass fibre reinforced, white, similar to RAL 9010															
Cover options	Quick-acting locks to be opened by means of a screwdriver; lamp cover is equipped with a hinge															
Assembly / Installation																
Cable glands	Connection side: 1 cable gland M25 x 1.5 and 1 stopping plug M25 x 1.5 Opposite side: 1 stopping plug M25 x 1.5 (cable glands enclosed) Entry parts in moulded plastic (8161/8290): M20 Metal glands: M20, M25, Metal cable gland earthing via metal adapter plates															
Connection option	Terminals L1, L2, L3, N, PE, L' (switched phase) 2.5 mm ² fine / single wire L1 = charging phase, must not be switched															
Through wiring	Lights available with internal through wiring, 6 wires; Cross-section 2.5 mm ² for max. 16 A only possible for 36 W															
Battery set																
Version	NiCd battery, gas-tight, the battery housing mounted on the lamp															
Capacity	7 Ah															
Operating voltage	6 V															
Replacing the battery set	Open the battery housing; After loosening one of the plug contacts, the battery unit can be removed from the housing.															
Emergency light electronics																
Operating modes	Maintained operation, stand-by operation, emergency blocking															
Battery charge	intelligent battery management system, microprocessor-based (on-load time of max. 14 h) deep-discharging protection to the avoidance of cell pol reversal															
Emergency light mode	During emergency light operation only one more lamp is operated. This results in reduced lighting power (see emergency light operation time)															
Emergency light service time	<table border="1"> <thead> <tr> <th>Battery capacity</th> <th>Emergency light operation time</th> <th colspan="2">Emergency light power</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>17/18 W light fitting</td> <td>32/36 W light fitting</td> </tr> <tr> <td rowspan="2">7 Ah</td> <td>1.5 h</td> <td>100 %</td> <td>60 %</td> </tr> <tr> <td>3 h</td> <td>60 %</td> <td>30 %</td> </tr> </tbody> </table>	Battery capacity	Emergency light operation time	Emergency light power				17/18 W light fitting	32/36 W light fitting	7 Ah	1.5 h	100 %	60 %	3 h	60 %	30 %
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		17/18 W light fitting	32/36 W light fitting													
7 Ah	1.5 h	100 %	60 %													
	3 h	60 %	30 %													
Switchover voltage	from mains to battery operation for $U < 0.74 \times U_N$ from battery to mains operation for $U > 0.80 \times U_N$															
Test functions																
Functional test	Check the emergency light function once a week. First test 1 hour after commissioning. During the first test, both lamps are switched on for 1 minute and the battery is charged with the rated current. Battery error and lamp fault are detected and indicated by means of the LED.															
Light duration test of the emergency lighting	Test of the battery capacity in time intervals of 12 months; operation of the device in the emergency light mode during 2/3 of rated operation time. If the light is switched off by the discharge protection before the time has elapsed, the battery cannot be used for the emergency mode. The red LED indicates the error.															

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Technical Data

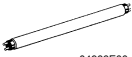



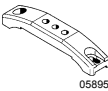
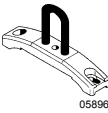

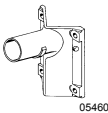
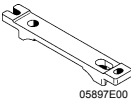

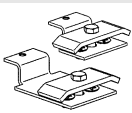
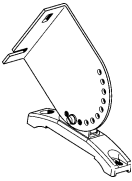
Function indicators	1 LED red and 1 LED green, incorporated in reflector; can be seen from outside through cover		
	LED	Indication	Function
	Green	On	Light fitting okay; charging current is supplied
		Blinking	Light fitting okay; function test or continuous on test is running
	Red	On	Battery error; not connection to the battery or battery completely discharged
		Blinking	Battery error; battery has not enough capacity
		Flashing	1:10
	Green / Red	Blinking	Emergency light function is jam by external switch
	Blinking	1 s ON 1 s OFF	
	Flashing	0.25 s ON 1.75 s OFF	
Operating modes	bei der Auslieferung ist die Leuchte in Dauerschaltung verdrahtet; durch Lösen der Brücke über den Klemmen 9 und 10 der Notlichtelektronik und Anschluss eines Fernschalters F wird die Leuchte auf Dauerschaltung mit schaltbarer Notlichtblockierung umgestellt.		
	<p>Diagram illustrating the terminal block configurations for emergency lighting operation. The left diagram shows terminals 9 and 10 with a jumper bridge, labeled "Maintained operation". The right diagram shows terminals 9 and 10 with an external switch F connected between them, labeled "Maintained operation with switchable emergency lighting".</p>		
	Funktionsbeschreibung		
	<p>Dauerschaltung bei Netzausfall der Allgemeinbeleuchtung wird die Leuchte grundsätzlich aus der Batterie gespeist, unabhängig von der Schaltstellung des Lichtschalters.</p>		
	<p>Dauerschaltung mit schaltbarer Notlichtblockierung bei Ausfall der Stromversorgung für die Allgemeinbeleuchtung schaltet die Leuchte nur dann auf Notlichtbetrieb, wenn der Fernschalter F geschlossen ist. Über den Fernschalter wird das Notlicht zentral auf "betriebsbereit" oder "nicht betriebsbereit" geschaltet, z. B. in Abhängigkeit von Anlagen-Betriebszeiten; die Fernschaltung erfolgt über einen externen Schalter mit einem potentialfreien Kontakt.</p>		
	<p>Pro Fernschalter können maximal 30 Leuchten in einer linienförmiger Verdrahtung oder 50 Leuchten in sternförmiger Verdrahtung angeschlossen werden. Dabei darf die Leitungslänge 500 m nicht überschreiten. Mindestquerschnitt der Leitung 1,5 mm²</p>		

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Accessories and Spare Parts

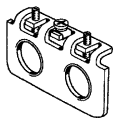
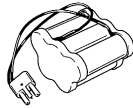




Designation	Illustration	Description	Art. no.	Weight kg
Fluorescent lamp		Two-pin cap \varnothing 26 mm Light colour: universal white		0.000
		18 W 1350 lm	108952	0.100
		36 W 3350 lm	108951	0.200
		58 W 5200 lm	108950	0.220
Diffuser cover		for lamp 18 / 20 W	124635	0.500
		for lamp 36 / 40 W	124646	1.300
		for lamp 58 / 65 W	124657	1.000
Switch		Switching element 8080/1-3-L, 2 normally closed contacts	132527	0.025
Lamp-holder		Lamp holder for two-pin cap lamps G 13	107275	0.008
Mounting rail		for a variable mounting distance of 1 pair	124894	0.210
Mounting clamp bracket		Mounting bracket mounted on the mounting rail for a variable mounting distance	of 1 pair 124901	0.300
M8 ring bolts		M8, direct mounting in insert nuts, 1 pair	115736	0.120
Wall-mounting bracket		to mount the lamps as side-entry lamps using a tube with a length of 1300 mm, \varnothing 42 mm		0.000
		(for pipe clamp R 1 1/2")	109281	6.000
Ceiling mounting bracket		for ceiling suspension of the lamp, 1 pair	124908	0.230
Pipe clamps		with mounting rail for a variable mounting distance; Material: stainless steel		0.000
		R 1 1/4" (\varnothing 42 mm)	124913	1.140
		R 1 1/2" (\varnothing 48 mm)	124891	1.160
Mounting set „Grid cable rack”		R 2" (\varnothing 60 mm)	124898	1.300
		for grid cable racks, with a cable diameter of 6 mm; with mounting rail for a variable mounting distance; Material: stainless steel	124905	1.560
Ceiling and wall-mounting bracket		mounted on a mounting rail for a variable mounting distance; Material: stainless steel Lamp can be swiveled in steps of 15°		0.000
		1 pair	124910	1.150

E2

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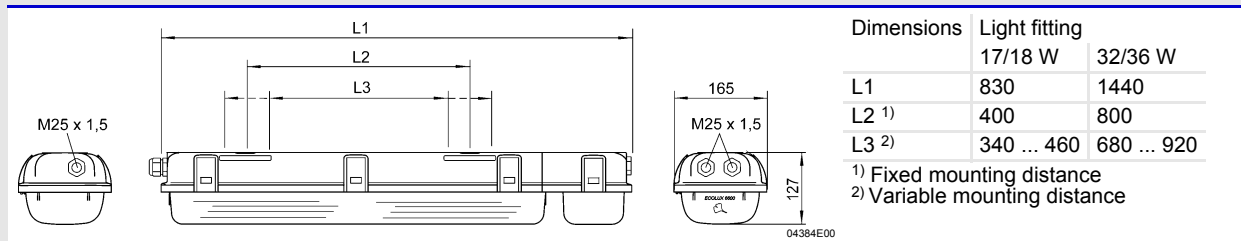
Accessories and Spare Parts

Designation	Illustration	Description	Art. no.	Weight kg		
Adapter plates	 05756E00	for earth continuity when using metal glands;		0.000		
		1 x M20 x 1.5	1 piece	115815	0.070	
		1 x M25 x 1.5	1 piece	115818	0.070	
		1 x NPT 1/2"	1 piece	115821	0.070	
		1 x NPT 3/4"	1 piece	115824	0.070	
		2 x M20 x 1.5	1 piece	115826	0.060	
		2 x M25 x 1.5	1 piece	115828	0.060	
Battery unit	 10321E00	NiCd-battery for 6608/5	7 Ah / 6 V	1 pc	118017	1.150
Reflectors	 05324E00	for later installation, broad deep beam			0.000	
		for lights with two lamps 18 W			117098	0.265
Cable gland	 05864E00	for lights with two lamps 36 W			117115	0.234
		of moulded material, series 8161				0.000
		8161/5-M20-13	1 piece	138518	0.012	
		8161/5-M20-13	50 pieces	138454	0.600	
		8161/5-M25-17		138520	0.020	
Stopping plug	 04840E00	8161/5-M25-17	50 pieces	138456	1.000	
		of moulded material, series 8290			0.000	
		8290/3-M20	1 piece	143522	0.005	
		8290/3-M20	100 pieces	143543	0.500	
		8290/3-M25		143524	0.007	
Breathing gland	 05703E00	8290/3-M25	100 pieces	143544	0.700	
		for installation in lights; in moulded material; without counter nut			0.000	
		Thread: M25 x 1.5	1 pc	138573	0.010	
	Thread: M25 x 1.5	20 pcs	138576	0.200		

Dimensional Drawings (All Dimensions in mm) - Subject to Alterations

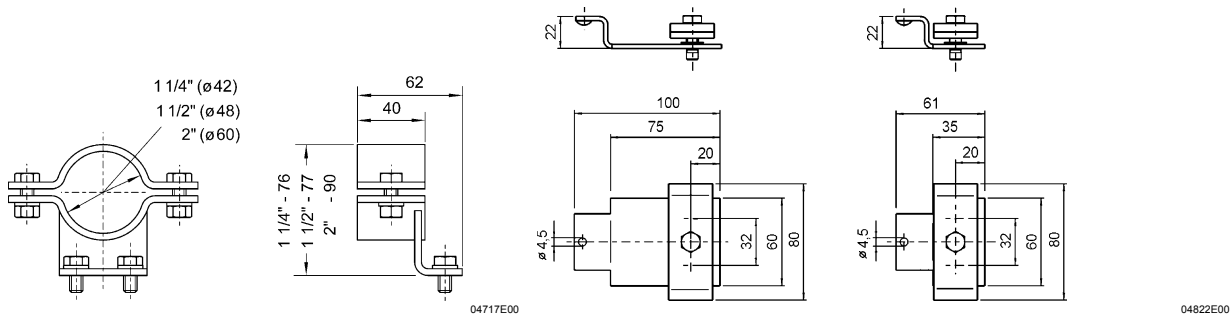
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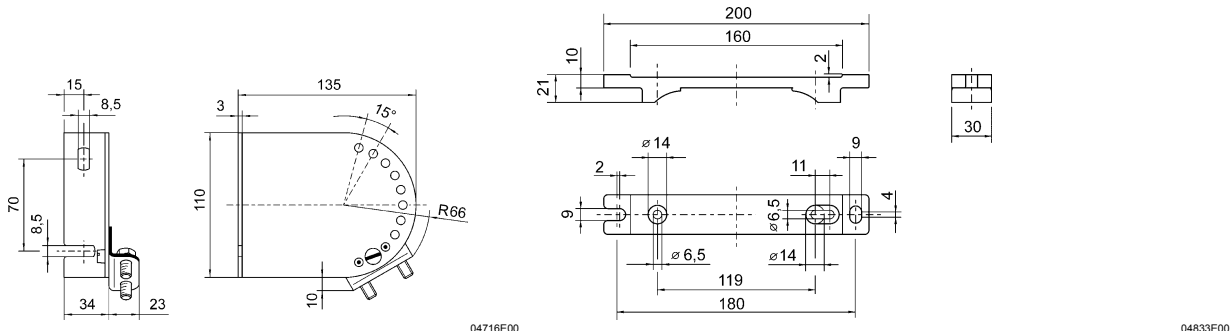
Emergency light fittings ECOLUX 6608, 18 W, 36 W

E2



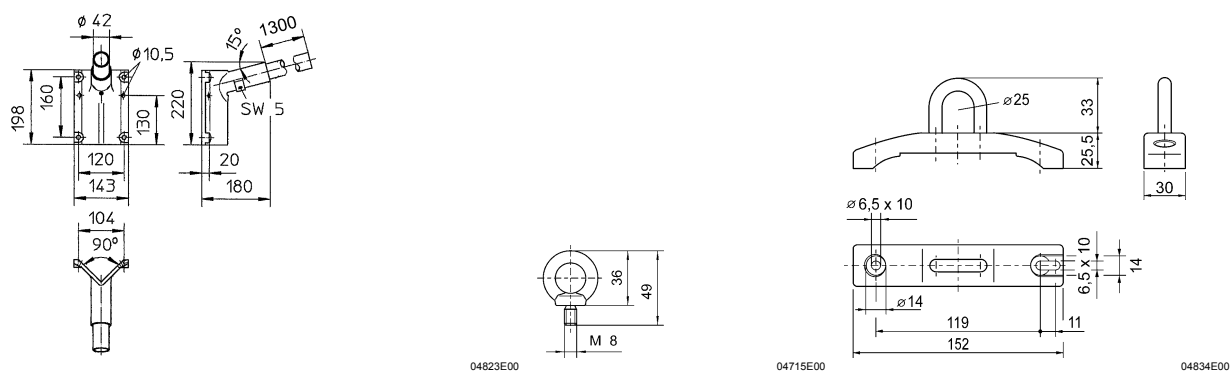
Pipe clamp

Mounting set grid cable rack



Ceiling- and wall-mounting bracket

Ceiling mounting bracket



Wall mounting bracket for pole-mounting version

Ring bolt

Mounting clamp bracket

Installation accessories

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