

Sheet Steel Emergency Light Fitting

Series 6018



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10069E00

- > For an operating duration of 1.5 or 3 h
- > Operating modes
 - Continuous operation
 - Continuous operation with switchable emergency light blocking
- > Weekly functional test
- > Total discharge protection and charging voltage limitation
- > Enclosure in powder-coated steel sheet or stainless steel

E2



The emergency light fittings in steel sheet, Series 6018 (Zone 1) can be used for the safety illumination of spraying and painting plants and in clean rooms.

| | ATEX | | | | | |
|------------|------|---|---|----|----|----|
| Zone | 0 | 1 | 2 | 20 | 21 | 22 |
| For use in | | x | x | | | |

WebCode 6018A

Sheet Steel Emergency Light Fitting

Series 6018

Selection Table

| Version | Version | Lamps | Battery | Lighting hours | Order number | Weight kg |
|--|------------------------|----------|---------|----------------|------------------------------|--------------|
| Emergency light fitting Series 6018 | Pendant light fitting | 2 x 18 W | 7 Ah | 1,5 / 3 h | 6018/5122-90.1-724.-1 | 13.600 |
| | | 2 x 36 W | 7 Ah | 1,5 / 3 h | 6018/5142-9..1-724.-1 | 20.000 |
| | Wall-mounting fitting* | 2 x 18 W | 7 Ah | 1,5 / 3 h | 6018/6122-90.1-724.-1 | 14.000 |
| | | 2 x 36 W | 7 Ah | 1,5 / 3 h | 6018/6142-9..1-724.-1 | 20.000 |
| | Recessed light fitting | 2 x 18 W | 7 Ah | 1,5 / 3 h | 6018/7122-90.1-724.-1 | 15.300 |
| | | 2 x 36 W | 7 Ah | 1,5 / 3 h | 6018/7142-9..1-724.-1 | 21.900 |

Order Number Supplement

| | | |
|----------------|--|----------------------|
| Through wiring | Only possible for 36 W versions | |
| | Without | 6018/.....0.. |
| | with 6 cores | 6018/.....6.. |
| Cable entries | Special: State with order | 6018/.....9 |
| | Standard (M25 x 1.5) | 6018/.....1 |
| Material | Special: Enclosure material stainless steel state with order | |

Note:

Maintained operation is standard on delivery. By removing a jumper and connecting an external switch this can be changed to switchable maintained operation.
The light fittings are supplied without tubes and mounting material.
These accessories must be ordered separately.
* Wall-mounting brackets must be ordered separately.

Explosion Protection

| | |
|--------------------|---|
| Europe (ATEX) | |
| Gas | PTB 99 ATEX 2199 Ⓜ II 2 G EEx edm IIC T4 |
| Certificates | ATEX, Belarus (GOST-B), Serbia (IZP) |
| Other certificates | Ship approval (GL) |

Technical Data

| | |
|---------------------------------|---|
| Electrical data | |
| Rated voltage | 220 ... 254 V, 50 / 60 Hz 110 ... 127 V, 50 / 60 Hz available on request |
| Ballast | Electronic ballast, double channel with integral emergency light electronics |
| Disconnection of the light | when opening the light fitting central locking device with safety interlock; switch 8080 with NC contacts with positive opening operation; on opening central lock, voltage to ballast, charging phase and battery set is disconnected when the lamp is faulty when the lamp is faulty, power supply is automatically switched off by the electronic ballast |
| Luminous Characteristics | |
| Lamps | 2 x 18 W; 2 x 36 W |
| Measures for light guidance | Reflector, painted white |
| Ambient conditions | |
| Ambient temperature | |
| Standard operation | - 30 ... + 50 °C |
| Battery operated | - 5 ... + 40 °C datenhaltig laden |
| Mechanical data | |
| Degree of protection | IP65 |
| Protection class | I (with internal PE connection terminal) |
| Material | |
| Enclosure material | Standard Sheet-steel, powder-coated; colour: white, similar to RAL 9016 Special Stainless steel |
| Lens | Safety glass |
| Gasket | EPDM formed gasket |

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Technical Data

Assembly / Installation

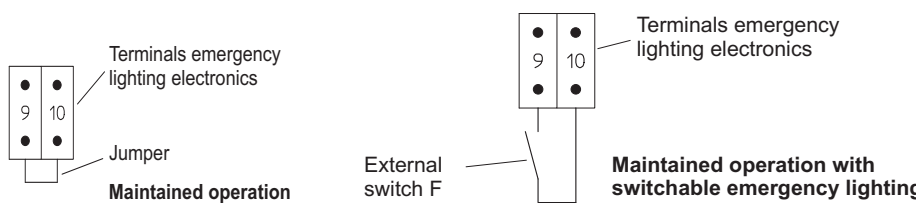
| | | | | |
|---|---|--|--------------------------|-------------|
| Cable entry | Standard | Connection side: 1 cable gland M25 x 1.5 and 1 stopping plug M25 x 1.5 Opposite side: 1 stopping plug M25 x 1.5 | | |
| | Special | M20 x 1.5 in plastic or metal | | |
| Connection | Terminal block (Line-up terminals) marking L1, L2, L3, N, PE, L' (L1 = charging phase) charging phase must be connected at all time Terminal size 2 x 4 mm ² , for solid cores 2 x 2,5 mm ² , for flexible cores | | | |
| Through wiring | Light fitting available with internal through wiring, 6-core (not possible for 18 W); cross section 2,5 mm ² for max. 16 A. | | | |
| Assembly | Pendant light fitting | Light fitting top has 2 M8 threaded rivets which allow use of different mounting parts, e. g. ring bolts. | | |
| | Wall-mounting light fitting | Each small end is fitted with 1 threaded bolt. The light fitting is hooked-in by these bolts to the mounting brackets and secured by lock nuts. The light fittings angle of inclination is infinitely variable. | | |
| | Recessed light fitting | Mounting frames with fixing holes are welded-on. Light fitting is inserted into ceiling cutout and fixed via mounting frame. The frames are flush with the glass cover. | | |
| Lamp locking | central locking using screw driver; glass cover hinged for access | | | |
| Emergency light electronics | | | | |
| Operating modes | Emergency lighting electronics are available: with automatic emergency light duration test; in maintained operation or maintained operation with switchable emergency lighting blocking. | | | |
| Battery charge | Intelligent battery management, controlled microprocessor (charging time max. 14 h) total discharge protection to avoid a pole reversal | | | |
| Emergency light mode | During emergency light operation, only one lamp is used. This results in a reduced lighting power (see emergency light service time) | | | |
| Emergency light service time | Battery capacity | Emergency light service time | Emergency lighting power | |
| | | | Lights 18 W | Lights 36 W |
| | 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 | The emergency light function is checked once a week First test takes place 1 hour after putting into operation For the first test, both lamps are switched on for 1 minute and the battery is charged with the rated current. Battery errors and lamp faults are detected and indicated via 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

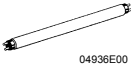
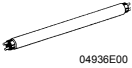





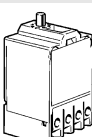
| Function indicators | <p>1 LED red and 1 LED green, located in the reflector sheet, can be seen from the outside through the lamp cover</p> <table border="1"> <thead> <tr> <th>LED</th> <th>Indication</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Green</td> <td>On</td> <td>Light is OK; charging current is supplied</td> </tr> <tr> <td>Blinking</td> <td>Light is OK; function test and operating time test are active</td> </tr> <tr> <td rowspan="3">Red</td> <td>On</td> <td>Battery error; connection to the battery is interrupted or battery is completely discharged</td> </tr> <tr> <td>Blinking</td> <td>Battery error; battery capacity is too low</td> </tr> <tr> <td>Flashing</td> <td>Lamp fault; lamp defective or lamp at the end of service life</td> </tr> <tr> <td>Green/Red</td> <td>Blinking</td> <td>Emergency light function is blocked by an external switch</td> </tr> <tr> <td>Blinking</td> <td>1 s ON 1 s OFF</td> <td></td> </tr> <tr> <td>Flashing</td> <td>0.25 s ON 1.75 s OFF</td> <td></td> </tr> </tbody> </table> | LED | Indication | Function | Green | On | Light is OK; charging current is supplied | Blinking | Light is OK; function test and operating time test are active | Red | On | Battery error; connection to the battery is interrupted or battery is completely discharged | Blinking | Battery error; battery capacity is too low | Flashing | Lamp fault; lamp defective or lamp at the end of service life | Green/Red | Blinking | Emergency light function is blocked by an external switch | Blinking | 1 s ON 1 s OFF | | Flashing | 0.25 s ON 1.75 s OFF | |
|---------------------|--|---|------------|----------|-------|----|---|----------|---|-----|----|---|----------|--|----------|---|-----------|----------|---|----------|-------------------|--|----------|-------------------------|--|
| LED | Indication | Function | | | | | | | | | | | | | | | | | | | | | | | |
| Green | On | Light is OK; charging current is supplied | | | | | | | | | | | | | | | | | | | | | | | |
| | Blinking | Light is OK; function test and operating time test are active | | | | | | | | | | | | | | | | | | | | | | | |
| Red | On | Battery error; connection to the battery is interrupted or battery is completely discharged | | | | | | | | | | | | | | | | | | | | | | | |
| | Blinking | Battery error; battery capacity is too low | | | | | | | | | | | | | | | | | | | | | | | |
| | Flashing | Lamp fault; lamp defective or lamp at the end of service life | | | | | | | | | | | | | | | | | | | | | | | |
| Green/Red | Blinking | Emergency light function is blocked by an external switch | | | | | | | | | | | | | | | | | | | | | | | |
| Blinking | 1 s ON 1 s OFF | | | | | | | | | | | | | | | | | | | | | | | | |
| Flashing | 0.25 s ON 1.75 s OFF | | | | | | | | | | | | | | | | | | | | | | | | |
| Operating modes | <p>On delivery, the light is wired for a continuous operation; if the jumper between the terminals 9 and 10 of the emergency light electronics is removed and an external switch F is connected, the continuous mode with switchable emergency light is activated.</p>  <p>Function description</p> <p>Continuous operation In case of a power failure of the general lighting system, the battery will supply the light with power independently of the light switch position.</p> <p>Continuous operation with switchable emergency light blocking in case of a power failure for the general lighting system, the light is only switched to the emergency light mode if the external switch F is closed. The external switch switches the emergency light automatically to "Ready" or "Not ready" depending, for example, on the operating times of the system; the external switch is equipped with a potential-free contact.</p> <p>A maximum number of 30 lights can be connected to each external switch with series connection or 50 lights in a star-like arrangement. The cable length must not exceed 500 m. Cross section of the cable: at least 1.5 mm²</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery set | <p>Version NiCd-battery, gas tight</p> <p>Operating voltage 6 V</p> <p>Capacity 7 Ah</p> <p>Replacing the battery set When central lock is opened battery set is de-energized; it can be removed from the housing by unplugging its removable contact</p> | | | | | | | | | | | | | | | | | | | | | | | | |

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Accessories and Spare Parts

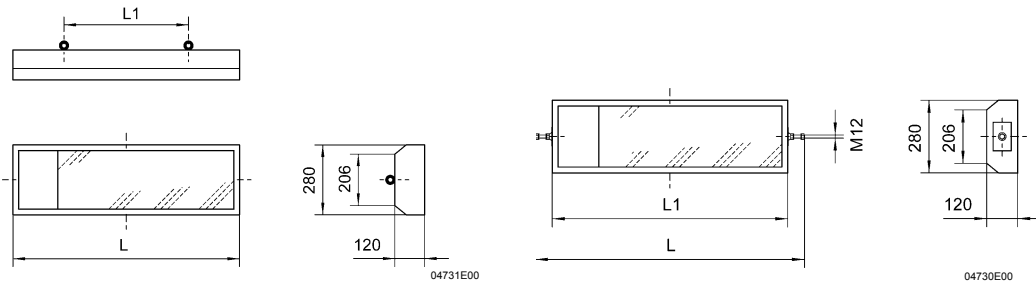
| Designation | Illustration | Description | Art. no. | Weight kg |
|-----------------------|---|---|---------------|--------------|
| Fluorescent lamps |  04936E00 | 18 W 1350 lm | 108952 | 0.100 |
| |  04936E00 | 36 W 3350 lm | 108951 | 0.200 |
| Wall-mounting bracket |  05375E00 | Material: Sheet steel 1 pair For light fittings width: 280 mm | 108948 | 1.000 |
| Ring bolts |  05378E00 | M8, direct mounting in insert nuts, 1 pair | 115736 | 0.120 |
| Battery set |  05567E00 | Gas-tight NiCd battery; 7 Ah / 6 V | 118013 | 1.000 |
| Fuse |  05736E00 | to protect battery circuit; 6,3 A; 1 pc | 149114 | 0.004 |
| Switch |  10809E00 | Switching element 8082/1-2-00, 1 NO contact | 132640 | 0.030 |
| |  10809E00 | Switching element 8080/1-3-L, 2 normally closed contacts | 132527 | 0.025 |

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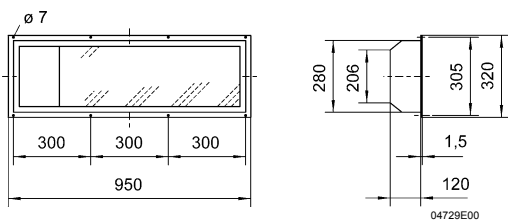
Dimensional Drawings (All Dimensions in mm) - Subject to Alterations



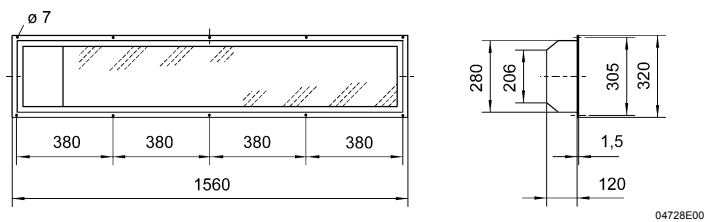
| Version | Dimensions in mm | |
|----------|------------------|-----|
| | L | L1 |
| 2 x 18 W | 910 | 500 |
| 2 x 36 W | 1520 | 950 |

| Version | Dimensions in mm | |
|----------|------------------|------|
| | L | L1 |
| 2 x 18 W | 1040 | 910 |
| 2 x 36 W | 1650 | 1520 |

Pendant light fitting 6018/5

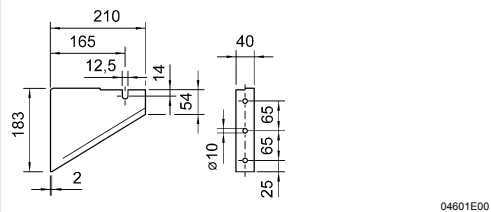


Wall-mounting light fitting 6018/6



Recessed light fitting 6018/7 Version 18 W

Recessed light fitting 6018/7 Version 36 W



Wall mounting bracket for 6018/6, narrow version

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