Introduction

Hazardous areas often require the use of optical signals for warning, information or signalling purposes. The Expertline-LED provides these signalling options. The available operating modes are continuous light, strobe light, blinking light and rotating light, and turning on the supply voltage activates the device. The Ex-light is equipped with high performance light-emitting diodes (LEDs) and comes in the colours white, red, yellow, green and blue. The housing conforms to protection degree IP66 and is suitable for both indoor and outdoor use.

The plastic housing and the dome consist of impact-resistant polycarbonate. The dome with the LEDs is completely filled with transparent compound. The complete electronics are also encapsulated in the compound. Thus, the ‘encapsulation’ type of protection is established. The terminal room has been designed according to the ‘increased safety’ type of protection. The DIP-switches for adjusting the operating modes have the ‘intrinsically safe’ type of protection.

A V4A metal bracket serves as wall mounting. The device may be operated in any position.

Features

- Housing polycarbonate (black)
- All metal parts of V4A stainless steel
- Protection degree IP 66 acc. to IEC 60529
- II 2 G Ex emb(ib) IIC T4
- II 2 D Ex mbD tr A21 IP66 T 130°C
- 4 different operating modes (continuous, blinking, strobe and rotating light)
- Available colours: white, red, yellow, green and blue

Warning, information, signalling

Hazardous areas often require the use of optical signals for warning, information or signalling purposes.
Certification and Specification

Certification: BVS 09 ATEX E 092 X
Il 2 G Ex embr(b) IIC T4
Il 2 D Ex m6D T A21 IP66 T 130°C

Protection class: III (24 VDC), II (230 VAC)

Material: Plastic (Polycarbonate)
V4A stainless steel wall bracket

Housing colour: Black

Certified Temp:
-40°C to +65°C (24 VDC)
-40°C to +60°C (230 VAC)

Storage: -45°C to +80°C

Weight: Approx. 2.5 kg

Ingress protection: IP 66 according to IEC 60529

Entry gland:
1x M20 x 1.5,
2x blind plugs M20 x 1.5

Terminals:
to 2.5 mm²

Operating voltage:
24 VDC
230 VAC

LED colours:
White, red, yellow, green, blue

Operating utilization position:
Any

Operating conditions:
Inside and outside

Operating modes:
Adjustable, continuous light, blinking light, strobe light, rotating light

Ordering Information
* The full article number is made up by appending the colour code for the coloured cap to the article number given here (--).
Transparent. 01 - Red 02 - Amber 03 - Green 04 - Blue 05 | For example F23101305 = Blue LED Light 24VDC.

<table>
<thead>
<tr>
<th>Type</th>
<th>Name</th>
<th>Voltage</th>
<th>Article no.</th>
</tr>
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<tbody>
<tr>
<td>ExpertLine</td>
<td>LED Light</td>
<td>24 VDC</td>
<td>F231 013 (--)</td>
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<tr>
<td>ExpertLine</td>
<td>LED Light</td>
<td>230 VAC</td>
<td>F231 007 (--)</td>
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<table>
<thead>
<tr>
<th>Power consumption</th>
<th>RED</th>
<th>YELLOW</th>
<th>GREEN</th>
<th>BLUE</th>
<th>WHITE</th>
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<tbody>
<tr>
<td>24 VDC</td>
<td>app. 460 mA</td>
<td>app. 480 mA</td>
<td>app. 650 mA</td>
<td>app. 680 mA</td>
<td>app. 720 mA</td>
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<tr>
<td>Continuous light</td>
<td>app. 480 mA</td>
<td>app. 500 mA</td>
<td>app. 680 mA</td>
<td>app. 700 mA</td>
<td>app. 720 mA</td>
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<tr>
<td>Blinking light</td>
<td>app. 460 mA</td>
<td>app. 480 mA</td>
<td>app. 660 mA</td>
<td>app. 680 mA</td>
<td>app. 690 mA</td>
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<tr>
<td>Strobe light</td>
<td>app. 650 mA</td>
<td>app. 900 mA</td>
<td>app. 1200 mA</td>
<td>app. 1250 mA</td>
<td>app. 1280 mA</td>
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<tr>
<td>Rotating light</td>
<td>app. 240 mA</td>
<td>app. 240 mA</td>
<td>app. 310 mA</td>
<td>app. 310 mA</td>
<td>app. 320 mA</td>
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<tr>
<td>Obstruction light</td>
<td>app. 215 mA</td>
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<td>–</td>
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<tbody>
<tr>
<td>230 VAC</td>
<td>app. 47 mA</td>
<td>app. 47 mA</td>
<td>app. 55 mA</td>
<td>app. 55 mA</td>
<td>pp. 55 mA</td>
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<tr>
<td>Continuous light</td>
<td>app. 47 mA</td>
<td>app. 47 mA</td>
<td>app. 55 mA</td>
<td>pp. 55 mA</td>
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<tr>
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<td>app. 40 mA</td>
<td>app. 44 mA</td>
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<tr>
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<td>app. 37 mA</td>
<td>app. 40 mA</td>
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<tr>
<td>Rotating light</td>
<td>app. 35 mA</td>
<td>app. 35 mA</td>
<td>app. 37 mA</td>
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<tr>
<td>Obstruction light</td>
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<td>–</td>
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Operating voltage DC voltage 24 VDC ± 20%
Alternating current 230 VAC ± 20%