



Explosion-proof LED Light Expertline

LED-Light for use in explosive atmospheres of zone 1, 2, 21 and 22. Flexible usable due to 4 different operating modes.

- ▶ 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 tD A21 IP66 T 130°C
- ▶ 4 different operating modes (continuous, blinking, strobe and rotating light)
- ▶ available colours:
white, red, yellow, green and blue
- ▶ Special version acc. ICAO
Low Intensity Type A

Warning, information, signalling

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

Application

Hazardous areas often require the use of optical signals for warning, information or signalling purposes. The Ex-LED Light 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.

Design

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.

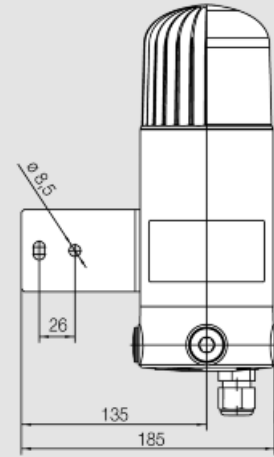
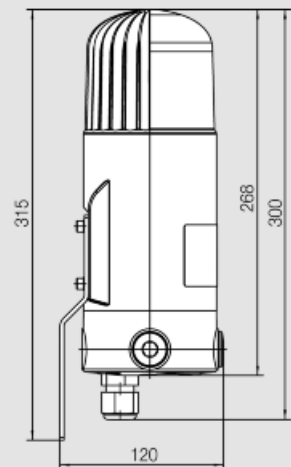
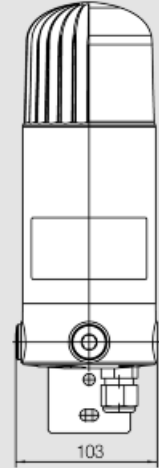
The Dip-switches for adjusting the operating modes have the 'intrinsically safe' type of protection.

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



Technical specifications

| | |
|---------------------------------|---|
| Housing | Plastic (Polycarbonate) V4A stainless steel wall bracket |
| Housing colour | black |
| Housing degree of protection | IP 66 according to IEC 60529 |
| 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 |
| Connecting terminals | to 2.5 mm ² |
| Cable gland | 1x M20 x 1.5, 2x blind plugs M20 x 1.5 |
| Temperature range | Operating: -40°C to +65°C (24 VDC) -40°C to +60°C (230 VAC) Storage: -45°C to +80°C |
| Protection class | III (24 VDC), II (230 VAC) |
| Operating voltage | 24 VDC 230 VAC |
| Type of protection | II 2 G Ex emb(ib) IIC T4 II 2 D Ex mbD tD A21 IP66 T 130°C |
| EC type examination certificate | BVS 09 ATEX E 092 X |
| Power consumption: | |
| Operating voltage | DC voltage 24 VDC ± 20% Alternating current 230 VAC ± 20% |
| Weight | approx. 2.5 kg |

Wall mounting

Terminal room


| | red | yellow | green | blue | white |
|----------------------------------|-------------|-------------|--------------|--------------|--------------|
| Power consumption 24 VDC | | | | | |
| Continuous light | app. 480 mA | app. 500 mA | app. 680 mA | app. 700 mA | app. 720 mA |
| Blinking light | app. 460 mA | app. 480 mA | app. 660 mA | app. 680 mA | app. 690 mA |
| Strobe light | app. 850 mA | app. 900 mA | app. 1200 mA | app. 1250 mA | app. 1280 mA |
| Rotating light | app. 240 mA | app. 240 mA | app. 310 mA | app. 310 mA | app. 320 mA |
| Obstruction light | app. 215 mA | - | - | - | - |
| Power consumption 230 VAC | | | | | |
| Continuous light | app. 47 mA | app. 47 mA | app. 55 mA | app. 55 mA | app. 55 mA |
| Blinking light | app. 40 mA | app. 40 mA | app. 44 mA | app. 44 mA | app. 44 mA |
| Strobe light | app. 37 mA | app. 37 mA | app. 40 mA | app. 40 mA | app. 40 mA |
| Rotating light | app. 35 mA | app. 35 mA | app. 37 mA | app. 37 mA | app. 37 mA |
| Obstruction light | app. 37 mA | - | - | - | - |

* The full article number is made up by appending the colour code for the colours to the article numbers given below.

| | |
|---------------|----|
| white | 01 |
| red | 02 |
| yellow | 03 |
| green | 04 |
| blue | 05 |

Order information

| Type | Name | Voltage | Art. No |
|------------|-----------------------|---------|------------|
| ExpertLine | LED Light | 24 VDC | 231 013 .. |
| ExpertLine | LED Light | 230 VAC | 231 007 .. |
| ExpertLine | LED Obstruction light | 24 VDC | 231 113 02 |
| ExpertLine | LED Obstruction light | 230 VAC | 231 107 02 |

Subject to change without notice · Printout 12/10