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

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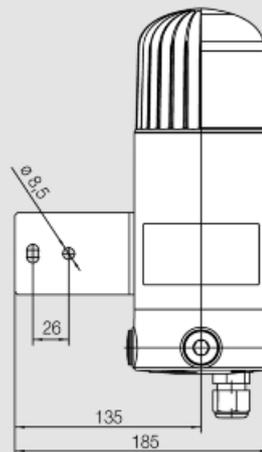
A V4A metal bracket serves as wall mounting. The device may be operated in any position.
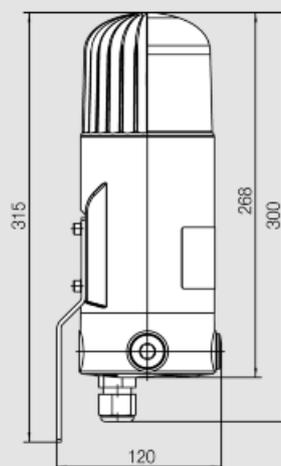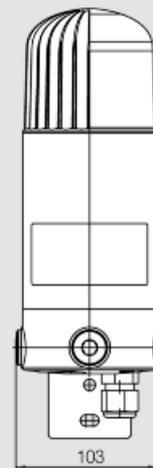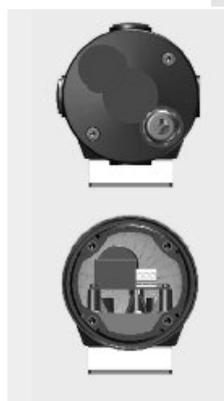
Technical specifications

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 mm²
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

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