

## Ex e



### 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 tD 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.



### 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.

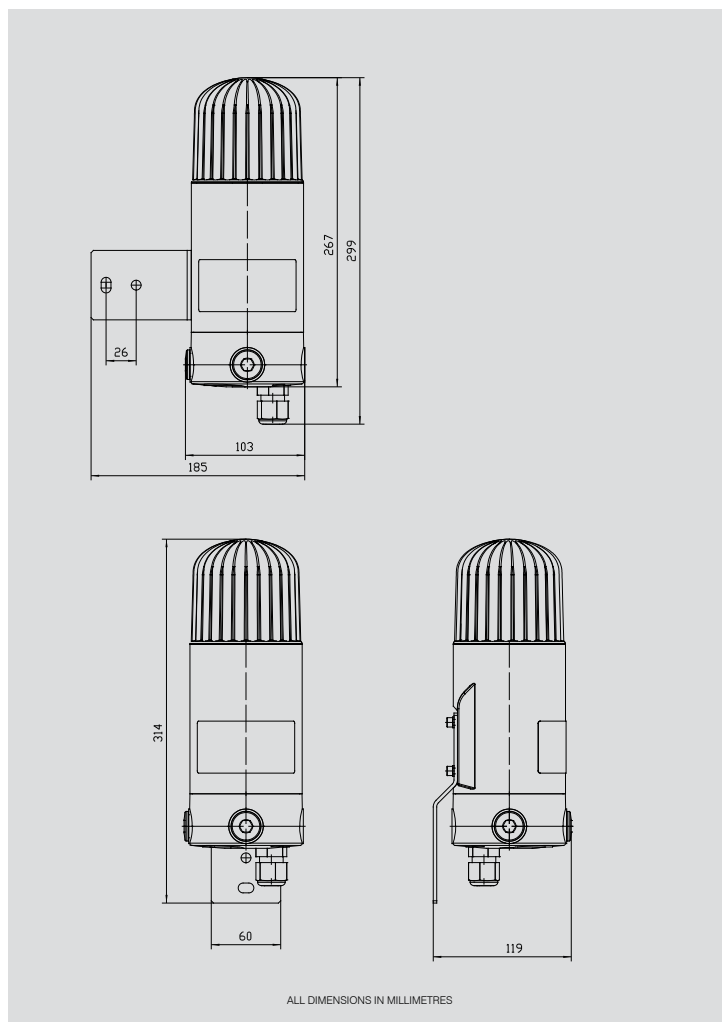
The DIP-switches for adjusting the operating modes have the 'intrinsically safe' type of protection.

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



# Certification and Specification

<b>Certification:</b>	BVS 09 ATEX E 092 X II 2 G Ex emb(ib) IIC T4 II 2 D Ex mbD tD A21 IP66 T 130°C
<b>Protection class:</b>	III (24 VDC), II (230 VAC)
<b>Material:</b>	Plastic (Polycarbonate) V4A stainless steel wall bracket
<b>Housing colour:</b>	Black
<b>Certified Temp:</b>	-40°C to +65°C (24 VDC) -40°C to +60°C (230 VAC)
<b>Storage:</b>	-45°C to +80°C
<b>Weight:</b>	Approx. 2.5 kg
<b>Ingress protection:</b>	IP 66 according to IEC 60529
<b>Entry gland:</b>	1x M20 x 1.5, 2x blind plugs M20 x 1.5
<b>Terminals:</b>	to 2.5 mm <sup>2</sup>
<b>Operating voltage:</b>	24 VDC 230 VAC
<b>LED colours:</b>	White, red, yellow, green, blue
<b>Operating utilization position:</b>	Any
<b>Operating conditions:</b>	Inside and outside
<b>Operating modes:</b>	Adjustable, continuous light, blinking light, strobe light, rotating light



Operating voltage DC voltage 24 VDC ± 20%  
Alternating current 230 VAC ± 20%

	RED	YELLOW	GREEN	BLUE	WHITE
<b>Power consumption 24 VDC</b>					
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	–	–	–	–
<b>Power consumption 230 VAC</b>					
Continuous light	app. 47 mA	app. 47 mA	app. 55 mA	app. 55 mA	pp. 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	–	–	–	–

## 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.

Type	Name	Voltage	Article no.
ExpertLine	LED Light	24 VDC	F231 013 (--)
ExpertLine	LED Light	230 VAC	F231 007 (--)

All specifications, dimensions, weights and tolerances are nominal (typical) and MEDC reserve the right to vary all data without prior notice.  
No liability is accepted for any consequence of use.



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