

## Ex LED Light Expertline

LED signal light for applications in explosive atmospheres of zones 1, 2, 21 and 22

Flexible use due to 4 different operating modes.



### Overview

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. The device is activated by turning on the supply voltage.

The plastic housing and the dome consist of impact-resistant polycarbonate. The dome with the LEDs is completely filled with transparent casting compound.

The entire electronics are also encapsulated in the compound, which ensures protection type "encapsulation". The terminal room has been designed according to protection type "increased safety". The DIP switches for adjusting the operating modes have protection type "intrinsic safety".

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

For a combination of different signalling devices please use the V4A mounting plate with integrated junction box, which is available as an accessory.

### Features

- Polycarbonate housing (black)
- All metal parts of V4A stainless steel
- Ingress protection IP 66 according to IEC 60529
- Protection type: II 2 G Ex e mb [ib] IIC T4 Gb  
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

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## Certification

Protection type	II 2 G Ex e mb [ib] IIC T4 Gb II 2 D Ex mbD tD A21 IP66 T 130°C
EC type-examination certificate	BVS 09 ATEX E 092 X

## Specifications

Housing	Plastic (polycarbonate) V4A stainless steel wall bracket
Colour	Black
LED colours	White, red yellow, green, blue
Operating voltage	DC 24 V ± 20% AC 230 V ± 20%
Ingress protection	IP 66 according to EN 60529
Protection class	III (DC) II (AC)
Connection terminals	Up to 2.5 mm <sup>2</sup>
Cable glands	1 x M20 x 1.5 2 x blind plug M20 x 1.5
Operating modes	Variable: continuous light, blinking light, strobe light and rotating light
Operating conditions	Indoors and outdoors
Operating position	Any
Temperature range	
Operation	-40°C to +65°C (24 VDC) -40°C to +60°C (230 VAC)
Storage	-45°C to +80°C

	Red	Yellow	Green	Blue	White
<b>Current consumption 24 VDC</b>					
Continuous light	480 mA	500 mA	680 mA	700 mA	720 mA
Blinklicht (LEDs an)	460 mA	480 mA	660 mA	680 mA	690 mA
Blitzlicht (LEDs an)	850 mA	900 mA	1200 mA	1250 mA	1280 mA
Rundumlicht	240 mA	240 mA	310 mA	310 mA	280 mA
<b>Current consumption 230 VAC</b>					
Continuous light	47 mA	47 mA	55 mA	55 mA	55 mA
Blinking light (LEDs on)	40 mA	40 mA	44 mA	44 mA	44 mA
Strobe light (LEDs on)	37 mA	37 mA	40 mA	40 mA	40 mA

All approximate values

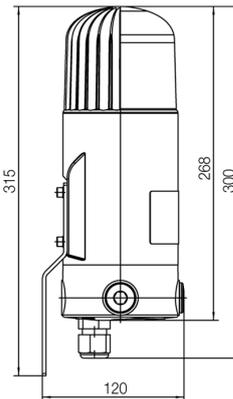
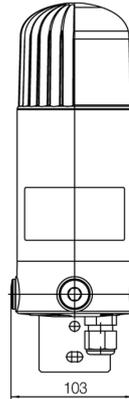
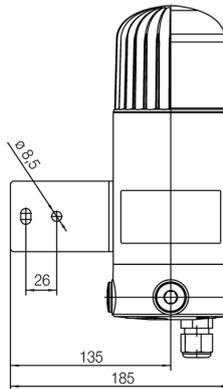
## Ordering data

\* The full article number for ATEX and IECEx variants is made up by appending the colour code to the article numbers given below. INMETRO and UL variants are available on request.

Type	Designation	Nominal voltage	Art. No.*
ExpertLine	LED-Leuchte	24 VDC	FHF 231 013 ..
ExpertLine	LED-Leuchte	230 VAC	FHF 231 007 ..

### Accessories

## General arrangement drawing (All dimensions in mm)



white	01
red	02
yellow	03
green	04
blue	05

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