

LED



Ex-Signal Light dSLB 20 LED

**Robust optical signalling device
for use in areas with
explosive atmospheres
in group II and zones 1, 2, 21 and 22**

- ▶ 4 different modes:
permanent, strobe, blinking or rotating
- ▶ Compact construction
- ▶ Versatile
- ▶ Protection degree IP 66/67
- ▶ Explosion protection class:
II 2 D Ex tD A21 IP66 T80°C – dust
II 2 G Ex de IIC T6 - gas
- ▶ Version: without protection cage,
red, continuous light, acc. ICAO
Annex 14, Low Intensity, Type A, red



Application

It is often necessary to use optical signals for warning, indicating and signalling purposes in areas with explosive atmospheres.

The ExII-signal light dSLB 20 LED offers these signalling possibilities. Through the 4 modes (blinking, flashing, permanent or rotating) this signal-lamp is uniquely in the ex market. Decision-advantages for this modern technology are not only the reduced warehouse charges (only one article on stock) but also the illuminations level. It is designed for continuous operation.

The dSLB 20 LED signal light is activated by switching on the power supply and is available with various rated voltages. The sturdy housing conforms to be installed both indoors and outdoors.

Design

The ExII-signal light consists of a small flameproof housing of aluminium containing the electronics and a glass cap of hardened borosilicate glass.

The terminal enclosure is realised in the explosion protection mode "increased safety".

**Use in a
chemical plant**



Technical specifications

Operating voltage DC voltage 24 V_{DC} ±20 %
 Alternating current 85 – 265 V_{AC}

	red	yellow	green	blue	white
Power consumption 24 V_{DC}					
Continuous	app. 550 mA	app. 570 mA	app. 800 mA	app. 850 mA	app. 870 mA
Blinking light (LEDs on)	app. 550 mA	app. 570 mA	app. 800 mA	app. 850 mA	app. 870 mA
Strobe light (LEDs on)	app. 1,2 A	app. 1,2 A	app. 1,5 A	app. 1,5 A	app. 1,6 A
Rotating light 1	app. 190 mA	app. 190 mA	app. 250 mA	app. 250 mA	app. 280 mA
Rotating light 2	app. 250 mA	app. 250 mA	app. 350 mA	app. 350 mA	app. 380 mA
Power consumption 230 V_{AC}					
Continuous	app. 125 mA	app. 125 mA	app. 160 mA	app. 170 mA	app. 170 mA
Blinking light (LEDs on)	app. 125 mA	app. 125 mA	app. 160 mA	app. 170 mA	app. 170 mA
Strobe light (LEDs on)	app. 180 mA	app. 180 mA	app. 210 mA	app. 230 mA	app. 230 mA
Rotating light 1	app. 60 mA	app. 60 mA	app. 65 mA	app. 70 mA	app. 70 mA
Rotating light 2	app. 70 mA	app. 70 mA	app. 80 mA	app. 85 mA	app. 85 mA
Power consumption 120 V_{AC}					
Continuous	app. 190 mA	app. 190 mA	app. 250 mA	app. 280 mA	app. 280 mA
Blinking light (LEDs on)	app. 190 mA	app. 190 mA	app. 250 mA	app. 280 mA	app. 280 mA
Strobe light (LEDs on)	app. 280 mA	app. 280 mA	app. 360 mA	app. 390 mA	app. 420 mA
Rotating light 1	app. 80 mA	app. 80 mA	app. 90 mA	app. 100 mA	app. 120 mA
Rotating light 2	app. 100 mA	app. 100 mA	app. 120 mA	app. 130 mA	app. 135 mA

Operating modes
 Continuous operation for all operating modes
 Continuous
 Blinking light 2 Hz
 Strobe light 7x on (55 ms on) and off (19 ms) then 1 sec. break
 Rotating light 1 Approx. 44 rotations/min 1 segment on
 Rotating light 2 Approx. 33 rotations/min 2 segments on

Connecting terminals
 Supply voltage
 Clamping capacity 2,5 mm² solid conductor; 1,5 mm² fine-wired
 Potential compensation conductor
 Screw connection With wire protection bracket, external
 Clamping capacity Max. 4 mm²

Operating utilization position Any

Operating conditions Inside or outside

Housing Aluminium · Surface spray painted or powder, colour: yellow/blue with hard glass dome and protective, stain proof steel basket (option)

Housing degree of protection IP 66 / 67 according to IEC 60529

Cable gland 1x M20 x 1,5 and 1x blind plug M20 x 1,5

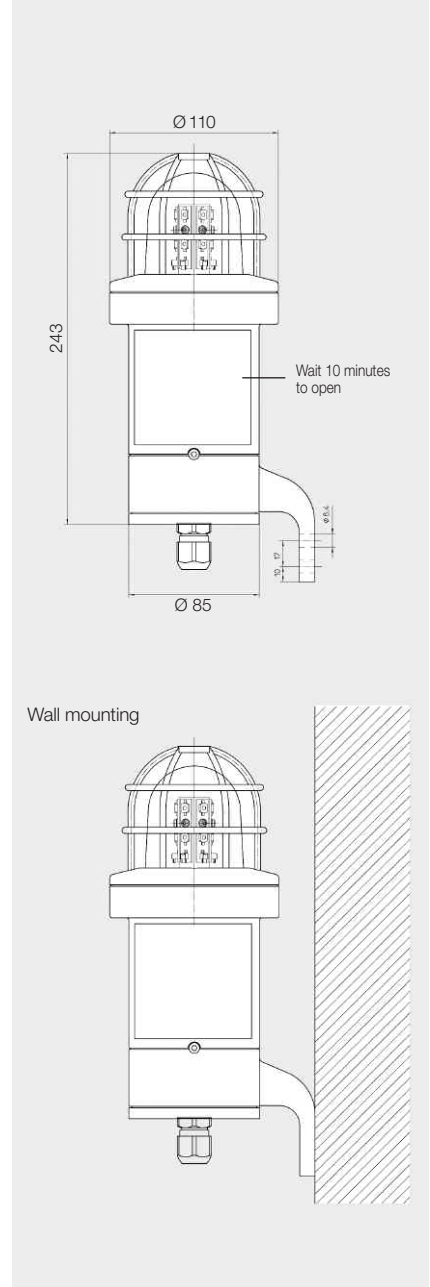
Temperature range Operation -40°C to +40°C Storage -60°C to +80°C

Type of protection II 2 G Ex de IIC T6
 II 2 D Ex tD A21 IP66 T80°C

Expl. protection class III (at 24 V_{DC}), I (at 85 – 265 V_{AC})

EC type examination certificate PTB 99 ATEX 1028

Weight Approx. 2 kg



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

transp.	01
red	02
yellow	03
green	04
blue	05

Order information

Type	Name	Rated voltage	Art.-Nr.*
dSLB 20 LED	ExII-Signal light	24 VDC without protection cage	224 921 ..
dSLB 20 LED	ExII-Signal light	24 VDC with protection cage	224 922 ..
dSLB 20 LED	ExII-Signal light	80 – 265 VAC without protection cage	224 923 ..
dSLB 20 LED	ExII-Signal light	80 – 265 VAC with protection cage	224 924 ..

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