

EEx II Double Strobe Light dSLB 15

Optical signalling device for use in areas with explosive atmospheres in group II and zones 1 + 2

- ▶ II 2G EEx de IIC T6
- ▶ Protection class II (no equipotential bonding necessary)
- ▶ Protection degree IP 66
- ▶ Signal colours: transparent, red, yellow, green, blue
- ▶ Double flash for high availability
- ▶ Synchronised flash of 15 joule every 1.5 sec.
- ▶ Alternating flash of 7.5 joule and high flash frequency

3



Application

The EEx strobe light dSLB 15 was developed for use in areas with explosive atmospheres in group II and for rough ambient conditions. Special importance was placed on operational reliability. The electronics are redundant, i.e. all electric wearing parts including the flash tubes are installed twice. In addition to the double-flash effect, this design also offers the advantage that the strobe light nevertheless continues to work at 50% power should a circuit fail. The device is designed to conform to protection class II, i.e. no equipotential bonding is necessary.

Design

The glass cap, which is made of thick hardened borosilicate glass, is bonded explosion-proof to the inside housing of seawater-proof aluminium. Combined with the screw-on mounting platform, this unit constitutes the flameproof component enclosure. The hinged terminal enclosure, which is realised acc. to the explosion protection mode "increased safety", forms the cover of the device. For corrosion-protection reasons and compliance with protection class II, the aluminium inside housing is encased in tough polyurethane.

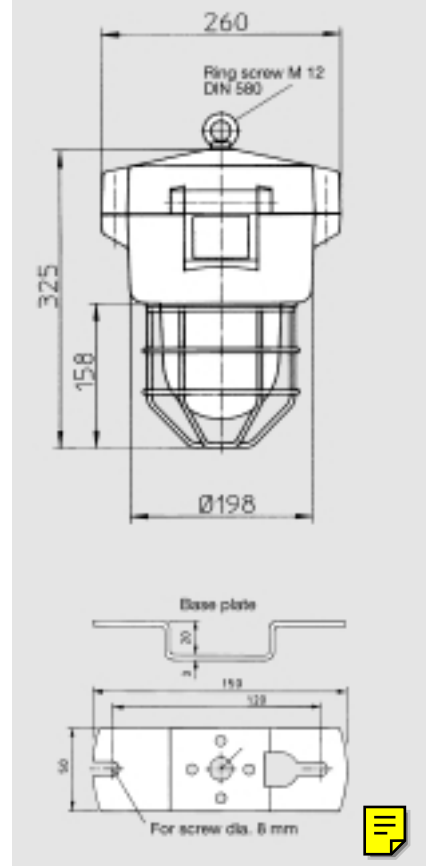
Danger warning in the chemical industry

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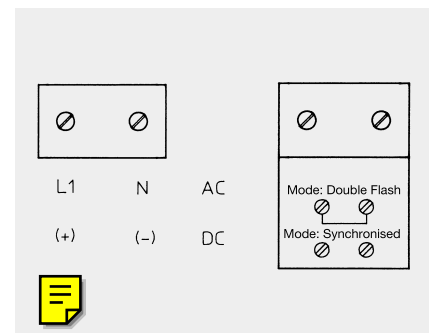


Technical specifications

Housing	Seawater-proof aluminium inside, high-grade polyurethane outside												
Colour	Black												
Cap	Hardened borosilicate glass												
Signal colours	Transparent, red, yellow, green, blue												
Protective cage	Stainless steel, epoxy coated												
Protection degree	IP 66												
Protection class	II (no equipotential bonding necessary)												
Cable gland	M 20 x 1.5, blind plug M 20 x 1.5												
Connection terminals	Cross section: 2.5 mm ² single wire 1.5 mm ² fine wire												
Operating conditions	Indoors and outdoors												
Operating position	Hanging or standing (Warning! The device may not be mounted horizontally.)												
Operating mode	Continuous												
Light source	2 x flash tubes 7.5 joule												
Average lifetime	Approx. 5 x 10 ⁶ flashes												
Flash sequence	<table border="1"> <thead> <tr> <th>Adjustable</th> <th>Operation mode terminal in electric enclosure</th> <th>Switch S1 in flameproof enclosure</th> </tr> </thead> <tbody> <tr> <td>1. Every 1.5 s, one double flash of 7.5 joule each, offset 0.2 s</td> <td>short</td> <td>open</td> </tr> <tr> <td>2. Every 1.5 s, one single flash of 15 joule</td> <td>open</td> <td>open</td> </tr> <tr> <td>3. Every 0.75 s, one alternating flash of 7.5 joule</td> <td>open</td> <td>closed</td> </tr> </tbody> </table>	Adjustable	Operation mode terminal in electric enclosure	Switch S1 in flameproof enclosure	1. Every 1.5 s, one double flash of 7.5 joule each, offset 0.2 s	short	open	2. Every 1.5 s, one single flash of 15 joule	open	open	3. Every 0.75 s, one alternating flash of 7.5 joule	open	closed
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Temperature range													
Operation	-20° C to +40° C												
Storage	-25° C to +70° C												
Expl. protection class	II 2G EEx de IIC T6												
Approval	PTB No. Ex-95.D.2027 Protection class II (no equipotential bonding necessary)												
Weight	Approx. 8.5 kg												



Wiring diagram



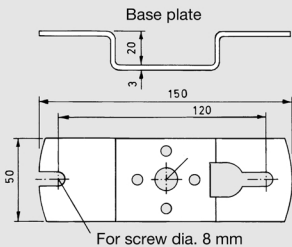
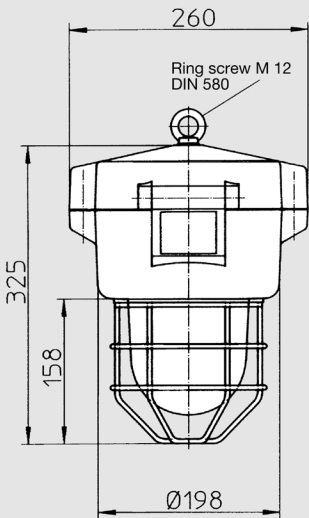
* The full article number is made up by appending the colour code for the coloured cap to the article numbers given below.

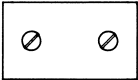
transp.	01
red	02
yellow	03
green	04
blue	05

Order information

Type	Name	Rated voltage U _e	Operation voltage range U _e	Current consumption	Fuse 5 x 20	Art. no.*
dSLB 15	EEx II Double Strobe Light	12 VDC	9–15 V	1.40 A	1xT 2 A + 2xT 1 A	224 841 ..
dSLB 15	EEx II Double Strobe Light	24 VDC	18–30 V	0.70 A	1xT 1 A + 2xT 0.5 A	224 842 ..
dSLB 15	EEx II Double Strobe Light	48 VDC	30–60 V	0.35 A	1xT 0.5 A + 2xT 0.25 A	224 843 ..
dSLB 15	EEx II Double Strobe Light	115 VAC	103–127 V	0.30 A	2xT 0.5 A + 1x M 0.032 A	224 846 ..
dSLB 15	EEx II Double Strobe Light	230 VAC	207–253 V	0.15 A	2xT 0.2 A + 1x M 0.032 A	224 847 ..

T = time lag / M = medium time lag





L1

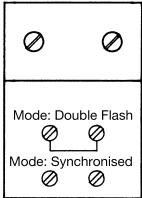
N

AC

(+)

(-)

DC



Mode: Double Flash



Mode: Synchronised

