

EEx II Rotating Beacon dSLD 15

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

- ▶ EEx de IIC T4
- ▶ Protection class II
(no equipotential bonding necessary)
- ▶ Protection degree IP 66
- ▶ Signal colours: transparent, red, yellow, green, blue
- ▶ Strong signal even over long distances
- ▶ Triple lens system, halogen lamp
- ▶ High lifetime thanks to low-wearing driver system

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Application

The dSLD 15 rotating beacon was developed as optical signalling device for use in areas with explosive atmospheres in group II and for rough ambient conditions. The triple lens system is driven by a maintenance-free stepper motor. The speed of the lens system is factory-set on 60–80 rpm and can be adjusted over a wide range in both directions if necessary with a potentiometer in the flameproof enclosure. The power is transmitted to the lens system by a double belt, guaranteeing a very quiet run.

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 in 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.

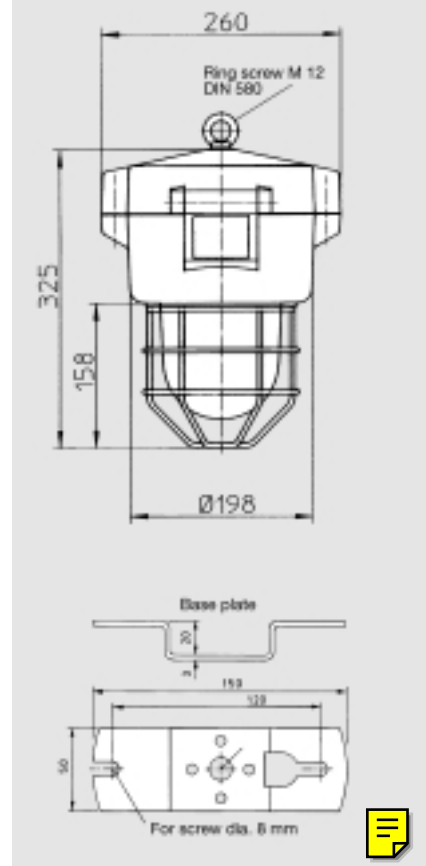
Danger warning in the chemical industry

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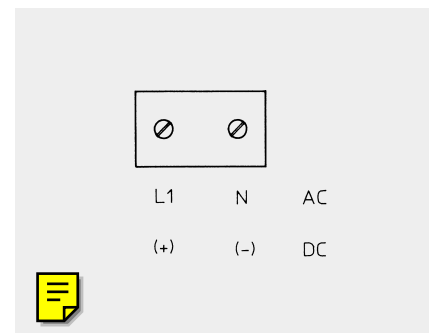


Technical specifications

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 (IEC 529)
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	35 W halogen lamp
Projection	Triple lens system, 60–80 rpm
Drive	Low-wearing stepper motor, double belt
Temperature range	
Operation	-20° C to +40° C
Storage	-25° C to +70° C
Expl. protection class	EEx de IIC T4
Approval	PTB Ex-95.D.2027 Approval ATEX applied for
Weight	Approx. 9.0 kg



Wiring diagram



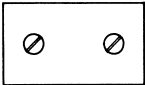
Order information

* 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

Type	Name	Rated voltage U _e	Operating voltage range U _e	Current consumption	Fuse 5 x 20	Art. no.*
dSLD 15	EEx II Rotating Beacon	12 VDC	±15 %	2,90 A	T 4 A	222 071 ..
dSLD 15	EEx II Rotating Beacon	24 VDC	±15 %	1,50 A	T 2,5 A	222 072 ..
dSLD 15	EEx II Rotating Beacon	110 VAC	±10 %	0,30 A	T 0,8 A	222 076 ..
dSLD 15	EEx II Rotating Beacon	230 VAC	±10 %	0,15 A	T 0,4 A	222 077 ..

T = time lag



L1

N

AC

(+)

(-)

DC

