

Lighting: Signaling Products

SBDS Series: Beacon Lighting Units – Flameproof



Static Beacon
with Red Globe



Rotating Beacon

Compliance Data:

ATEX – IEC:



Zone 1 & 2 – 21 & 22	ATEX	II 2 GD	CEI	CE
Ex d IIC	T6 to T3	Ex tD A21	T85°C to T145°C	IP66 – IK08

Lamp Type and Watts:

Static Beacon	Static Beacon	Rotating Beacon		
100 W Incandescent	18 W to 25 W Compact Fluorescent	40 W Incandescent		

Operating Temperature:

-40°C to +50°C (Static Beacon)
-20°C to +50°C (Rotating Beacon)

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LIGHTING

Applications:

- For use in hazardous locations in a wide range of plants.
- In areas where audible signals cannot be heard.

Features:

- Fixtures operate in any position.
- Suspension via integral bolt.
- Threaded flame path.
- Internal earth terminal 2 x 4 mm².
- External earth terminal 1 x 4 mm².
- Two M20 threaded entries with one blanking plug.
- Globe available in four colors: red, amber, green and clear (to be ordered separately).

Static Beacon:

- E27 lamp holder.
- Permissible lamps not supplied:
 - 100 W incandescent max.
 - 18/20/25 W compact fluorescent
- Connection to lamp holder via two terminals 1 x 2.5 mm² or 2 x 4 mm² terminal block supplied.



Static Beacon with Red Globe

Rotating Beacon:

- E14 lamp holder.
- 40 W incandescent lamp supplied.
- Rotating speed: approximately 170 rotations per minute.
- Beaten mirror to reinforce bright effect.
- Connection via two terminals 2 x 4 mm²



Rotating Beacon

Standard Material of Fixtures:

- Gray painted marine aluminum body and bezel.
- Colorless sealed shock resistant glass.
- Internal aluminum reflector for static beacon.

Standard Material of Accessories:

- Colored polymethacrylate globe.
- Zinc plated steel protective guard.
- Zinc plated steel mounting bracket.

Ordering Information:

Lighting Units:

	Type	Supply		Rating (Amps)	Weight (kg)	Volume (dm ³)	Catalog Number	Old Catalog Number	Pack
	Clear Static Beacon								
	100 W maximum				7.5	30	SBDSSC	—	1
	Clear Rotating Beacon								
	40 W incandescent	48 V ±10%	50/60 Hz	1A	8.5	30	SBDSRC4004A	095126	1
	40 W incandescent	48 Vdc ±10%		1A	8.5	30	SBDSRC4004D	095127	1
	40 W incandescent	110 V ±10%	50/60 Hz	0.5A	8.5	30	SBDSRC4011A	095128	1
	40 W incandescent	230/240 V ±10%	50/60 Hz	0.23A	8.5	30	SBDSRC4024A	095129	1

Accessories:

	Type		Catalog Number	Old Catalog Number	Pack
	Polymethacrylate Globe				
	Red		SBDGR	095084	1
	Green		SBDGG	095085	1
	Amber		SBDGA	095089	1
	Clear		SBDGC	095090	1
	Zinc Plated Steel Protective Guard				
	Not to be used if a colored globe is used.		LDPG1Z	094773	1
	Zinc Plated Steel Hinged Bracket				
	For installation on flat surface		LDPHBZ	094776	1

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Zone 1 & 2 - 21 & 22

Ex II 2 GD

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IP66 - IK08

Compliances:

Hazardous Area	Gas	Dust
Certified Type	AB14	
Zones	1 – 2	21 – 22
Conforming to ATEX 94/9/CE	CE 0081 Ex II 2 G	CE 0081 Ex II 2 D
Symbol of Protection ATEX	Ex d IIC	Ex tD A21
Symbol of Protection IEC		
T Rating	See Table 1	NA
Surface Temperature	NA	See Table 2
Ambient Temperature	-40°C to +50°C (Static) -20°C to +50°C (Rotating)	
CE Declaration of Conformity	50231	
ATEX Certificate	LCIE 02 ATEX 6053	
IEC Certificate	LCIE Ex 02.004	
Other Certifications	GOST	
Index of Protection (solid and liquid)	IP66	
Impact Resistance (shock)	IK08	
Internal Volume	> 2 dm ³ (2 liters)	

Standards:

Ex Standards	EN / IEC 60079-0; 60079-1; 61241-0; 61241-1
Product Standards	EN / IEC 60598-1
EMC Standards	EN / 55015; 61547
Other Standards	EN / IEC 60529 (IP); 62262 (IK)

Dimensions (mm):

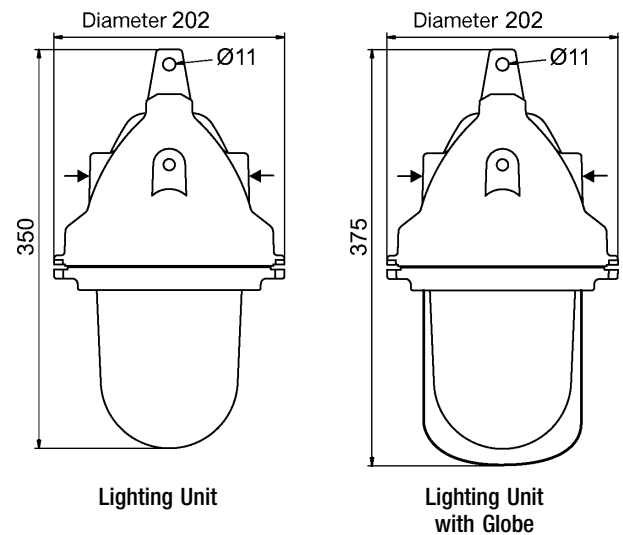


Table 1: T Rating for Gas

Power and Source	Ambient Temperature			
	Ta = +40°C		Ta = +50°C	
	T Rating	Cable Entry Temperature	T Rating	Cable Entry Temperature
18 W Compact Fluor.	T6	–	T5	–
20 W Compact Fluor.	T6	–	T5	–
25 W Compact Fluor.	T6	–	T5	–
100 W Incandescent	T4	115°C	T3	125°C
40 W Rotating	T5	–	T4	–

Table 2: Surface Temperature for Dust

Power and Source	Ambient Temperature	
	Ta = +50°C	
	Surface Temperature	Cable Entry Temperature
18 W Compact Fluorescent	85°C	–
20 W Compact Fluorescent	85°C	–
25 W Compact Fluorescent	85°C	–
40 W Rotating	110°C	–
100 W Incandescent	145°C	125°C

