

# ATX™ SBDS Series Beacon Lighting Units

## Flameproof

ATEX:  
 Zone 1 and 2 - 21 and 22  
 Ⓢ II 2 GD  
 IP66 - IK08

### Applications

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

### Features

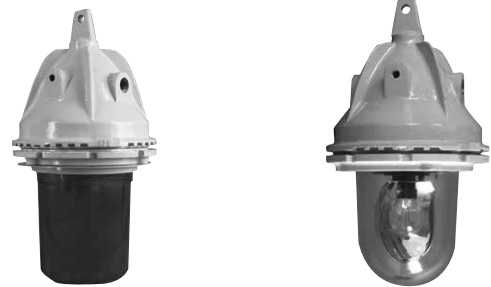
- Fixtures operate in any position.
- Suspension via integral bolt.
- Threaded flame path.
- Internal earth terminal 2 x 4 mm<sup>2</sup> (0.003 x 0.006 in<sup>2</sup>).
- External earth terminal 1 x 4 mm<sup>2</sup> (0.002 x 0.006 in<sup>2</sup>).
- Two M20 threaded entries with one blanking plug.
- 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 mm<sup>2</sup> (0.002 x 0.003 in<sup>2</sup>) or 2 x 4 mm<sup>2</sup> (0.003 x 0.006 in<sup>2</sup>) terminal block supplied.
- 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 mm<sup>2</sup> (0.003 x 0.006 in<sup>2</sup>).

### Standard Materials

- Body and bezel: gray painted marine aluminum
- Glass: colorless sealed shock resistant
- Reflector for static beacon: internal aluminum
- Globe: colored polymethacrylate
- Protective guard: zinc plated steel
- Mounting bracket: zinc plated steel

### ATEX Certifications and Compliances

- Certification Type: AB14
  - Gas: Zones 1 and 2
  - Conforming to ATEX 94/9/CE: Ⓢ II 2 G
  - Type of Protection: Ex d IIB
  - Temperature Class: See *T Rating (Gas) and Surface Temperature (Dust) Table*



Static Beacon with Red Globe

Rotating Beacon

- Dust: Zone 21 and 22
- Conforming to ATEX 94/9/CE: Ⓢ II 2 D
- Type of Protection: Ex tD A21
- Surface Temperature: See *T Rating (Gas) and Surface Temperature (Dust) Table*
- Ambient Temperature:
  - Static: -40 °C to +50 °C (-40 °F to +122 °F)
  - Rotating: -20 °C to +50 °C (-4 °F to +122 °F)
- CE Declaration of Conformity: 50231
- ATEX Certificate: LCIE 02 ATEX 6053
- Index of Protection (solid and liquid): IP66
- Impact Resistance (shock): IK08
- Internal Volume: ≤ 2 dm<sup>3</sup> (122 in<sup>3</sup>) - 2 liters

### Other Certification

- INMETRO Certificate: BVC11.0480 ①

### T Rating (Gas) and Surface Temperature (Dust) Table

Lamp Type and Wattage	Ambient Temperature — T Rating for Gas				Ambient Temperature — Surface Temperature for Dust	
	T Rating	Ta = +40 °C (+104 °F)		Ta = +50 °C (+122 °F)		
		Cable Entry Temperature	T Rating	Cable Entry Temperature	Surface Temperature	Cable Entry Temperature
18 W Compact Fluorescent	T6	–	T5	–	+85 °C (+185 °F)	–
20 W Compact Fluorescent	T6	–	T5	–	+85 °C (+185 °F)	–
25 W Compact Fluorescent	T6	–	T5	–	+85 °C (+185 °F)	–
100 W Incandescent	T4	+115 °C (+239 °F)	T3	+125 °C (+257 °F)	+145 °C (+293 °F)	+125 °C (+257 °F)
40 W Rotating	T5	–	T4	–	+110 °C (+230 °F)	–



① Inmetro certification available on special request only. Contact your local sales representative for more information.

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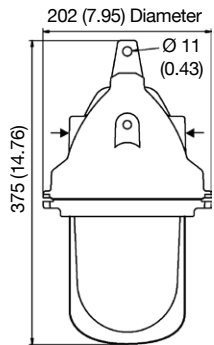
VISUAL SIGNAL: ATEX/IECx FLAMEPROOF

Lamp Type and Wattage	Supply	Frequency (Hz)	Rating (Amps)	Weight (kg (lb))	Volume (dm <sup>3</sup> (in <sup>3</sup> ))	Catalog Number
<b>Clear Static Beacon</b>						
 100 W maximum	—	—	—	7.5 (16.53)	30 (1830.7)	<b>SBDSSC</b>
<b>Clear Rotating Beacon</b>						
 40 W Incandescent	48 V ±10%	50/60 Hz	1 A	8.5 (18.74)	30 (1830.7)	<b>SBDSRC4004A</b>
40 W Incandescent	48 Vdc ±10%	—	1 A	8.5 (18.74)	30 (1830.7)	<b>SBDSRC4004D</b>
40 W Incandescent	110 V ±10%	50/60 Hz	0.5 A	8.5 (18.74)	30 (1830.7)	<b>SBDSRC4011A</b>
40 W Incandescent	230/240 V ±10%	50/60 Hz	0.23 A	8.5 (18.74)	30 (1830.7)	<b>SBDSRC4024A</b>

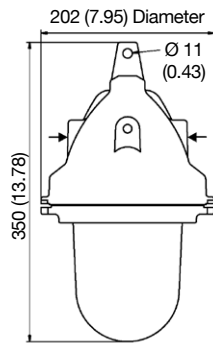
## Accessories and Replacement Parts

Type	Catalog Number
Polymethacrylate Globe	
 Red	<b>SBDGR</b>
Green	<b>SBDGG</b>
Amber	<b>SBDGA</b>
Clear	<b>SBDGC</b>
Zinc Plated Steel Protective Guard	
 Not to be used if a colored globe is used	<b>LDPG3Z</b>
Zinc Plated Steel Hinged Bracket	
 For installation on flat surface	<b>LDPHBZ</b>

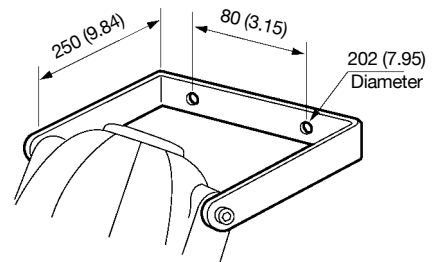
## Dimensions in Millimeters (Inches)



Lighting Unit



Lighting Unit with Globe



LDPHBZ Mounting Bracket