SBDS Series Beacon Lighting Units
Flameproof

Zone 1 and 2 - 21 and 22
Gas (G) and Dust (D)

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^2.
- External earth terminal 1 x 4 mm^2.
- 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^2 or 2 x 4 mm^2 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^2.

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

Certifications and Compliances

♦**ATEX Certification**
- **Certification Type: AB14**
  — Gas: Zones 1 and 2
    – Conforming to ATEX 94/9/CE: ⟨Ex⟩ II 2 G
    – Type of Protection: Ex d IIB
    – Temperature Class: *See Table below*

Static Beacon with Red Globe

Rotating Beacon

  — Dust: Zone 21 and 22
    – Conforming to ATEX 94/9/CE: ⟨Ex⟩ II 2 D
    – Type of Protection: Ex tD A21
    – Surface Temperature: *See Table on following page*
  — Ambient Temperature:
    — Static: -40 °C to +50 °C
    — Rotating: -20 °C to +50 °C
  — CE Declaration of Conformity: 50231
  — ATEX Certificate: LCIE 02 ATEX 6053
  — Index of Protection according EN/IEC 60529: IP66
  — Impact Resistance (shock): IK08
  — Internal Volume: ≤ 2 dm^3 (2 liters)

♦**Others Certification**
  — INMETRO Certificate: BVC11.0480 ①

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

| Lamp Type and Wattage | T Rating for Gas | | | | Surface Temperature for Dust | |
| | Ta = +40 °C | | Ta = +50 °C | | Ta = +50 °C | |
	T Rating	Cable Entry Temperature	T Rating	Cable Entry Temperature	Surface Temperature	Cable Entry Temperature
18 W Compact Fluorescent	T6	–	T5	–	+85 °C	–
20 W Compact Fluorescent	T6	–	T5	–	+85 °C	–
25 W Compact Fluorescent	T6	–	T5	–	+85 °C	–
100 W Incandescent	T4	+115 °C	T3	+125 °C	+145 °C	+125 °C
40 W Rotating	T5	–	T4		+110 °C	–

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

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	Lamp Type and Wattage	Supply	Frequency (Hz)	Rating (Amps)	Weight kg	Volume dm³	Catalog Number
	Clear Static Beacon						
	100 W maximum	—	—	—	7.5	30	**SBDSSC**
	Clear Rotating Beacon						
	40 W Incandescent	48 V ±10%	50/60 Hz	1 A	8.5	30	**SBDSRC4004A**
	40 W Incandescent	48 Vdc ±10%	—	1 A	8.5	30	**SBDSRC4004D**
	40 W Incandescent	110 V ±10%	50/60 Hz	0.5 A	8.5	30	**SBDSRC4011A**
	40 W Incandescent	230/240 V ±10%	50/60 Hz	0.23 A	8.5	30	**SBDSRC4024A**

Accessories and Replacement Parts

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

Dimensions in Millimeters (Inches)

202 (7.95) Diameter
Ø 11 (0.43)
375 (14.76)
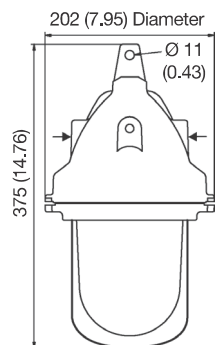
Lighting Unit with Globe

202 (7.95) Diameter
Ø 11 (0.43)
350 (13.78)

Lighting Unit

250 (9.84) 80 (3.15)
202 (7.95) Diameter
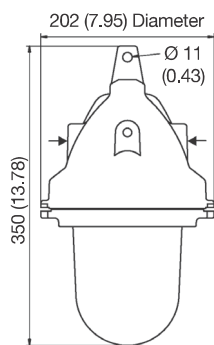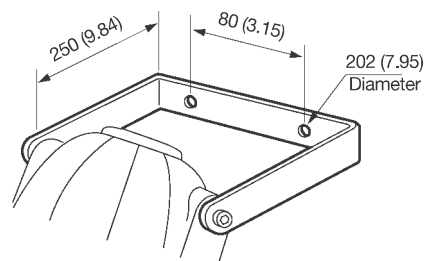
LDPHBZ Mounting Bracket

Shaded catalog numbers are normally stocked items. All other items are made to order.

Visit our website at **www.appletonelec.com** or contact us at **+33.3.22.54.27.54.**
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