DESCRIPTION

BC100 Industrial/Marine Safe Area Beacon & Light was designed according to EN 54 standard. Enclosure material is flame retardant polycarbonate. It is suitable for outdoor safe area application. It especially applies to Oil & Gas, Chemical, Petrochemical, Refinery, Marine and Offshore Industries etc. for outdoor safe areas. It can be used for Fire Alarm, Gas Detection, Fire Fighting and Industrial Automation Failures and Emergency Alarm System.

It has telephone initiated function and can be used as the second ring output indicator of industrial telephones as well which apply to special locations where the environment is noisy on the engineering site.

Different flash or rotary frequency can be adjusted from unique design. Three working statuses - flash type, rotary type and steady type are available (LED).

Various colors are selectable for lens cover from Red, Amber, Blue, Green to Clear. Other colors are also available upon customer’s request.

- Industrial/Marine Safe Area
- IP 66
- Flame Retardant Polycarbonate Enclosure and Lens Cover
- Xenon or LED Option
- Xenon: 2.5, 5 or 10J
- LED: 2.5, 5 or 10W
- 3 Stages of Alarm Light Output
- Flashing Frequency Adjustable
- Telephone Initiated Function
- 5 Lens Colors: Red, Amber, Blue, Green and Clear
- 12-48 V DC or 100-240V AC Version
- Wall Mounting
- Standard: EN54

INTENDED USE

- Industrial/marine safe area

ORDER INFORMATION - BC100 - INDUSTRIAL/MARINE SAFE AREA BEACON/LIGHT

<table>
<thead>
<tr>
<th>PRODUCT NUMBER</th>
<th>LENS COLOUR</th>
<th>TYPE</th>
<th>TUBE (XENON)</th>
<th>POWER (LED)</th>
<th>VOLTAGE</th>
<th>DUTY LABEL</th>
<th>TAG LABEL</th>
<th>CABLE ENTRY</th>
<th>FINISH COLOUR</th>
<th>TELEPHONE INITIATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>BC 100</td>
<td>R = RED</td>
<td>X</td>
<td>02 - 2.5J</td>
<td>02 - 2.5W</td>
<td>DC-12-48V</td>
<td>Y = YES</td>
<td>Y = YES</td>
<td>A = M20</td>
<td>BL = BLACK</td>
<td>Y = YES</td>
</tr>
<tr>
<td></td>
<td>A = AMBER</td>
<td>L</td>
<td>05 - 5J</td>
<td>05 - 5W</td>
<td>AC-100-240V</td>
<td>N = NO</td>
<td>N = NO</td>
<td>B = M25</td>
<td>RD = RED</td>
<td>N = NO</td>
</tr>
<tr>
<td></td>
<td>B = BLUE</td>
<td></td>
<td>10 - 10J</td>
<td>10 - 10W</td>
<td></td>
<td></td>
<td></td>
<td>C = ½NPT</td>
<td>OR = OTHER</td>
<td></td>
</tr>
<tr>
<td></td>
<td>G = GREEN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>D = ¾NPT</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>E = CLEAR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>O = OTHER</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>O = OTHER</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>O = OTHER</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ORDER INFORMATION & DIMENSIONS - BC100 - INDUSTRIAL/MARINE SAFE AREA BEACON/LIGHT

MODEL CONFIGURATOR

Spareparts & Accessories

Xenon PCB (DC) | 50060400621
LED PCB (DC)  | 50060400611
**Datasheet - BC 100 Industrial/Marine Safe Area Beacon/Light**

### Technical Information - BC100 - Industrial/Marine Safe Area Beacon/Light

#### Type
- Xenon or LED

#### Xenon
- 2.5, 5 or 10 Joule
- 5 or 10 Watt

#### Effective Candela (Xenon) *
- 2.5 Joule: 67 Cd
- 5 Joule: 109 Cd
- 10 Joule: 293 Cd

#### Peak Candela (Xenon) *
- 2.5 Joule: 28,513 Cd
- 5 Joule: 35,970 Cd
- 10 Joule: 66,804 Cd

#### Effective Candela (LED) *
- 5 W: 128 Cd
- 10 W: 312 Cd

#### Multiplying Factor of Colored Lens Cover
- Amber: 0.51
- Green: 0.49
- Red: 0.15
- Blue: 0.12

#### Working Status
- Xenon: Flashing
- LED: Flashing, rotating or steady

#### Flashing Rate (Xenon)
- 2.5 Joule: 60/75/100 Times/min
- 5 Joule: 75/95/120 Times/min
- 10 Joule: 120/150/180 Times/min

#### Flashing Rate (LED)
- 5 W: 60/75/100 Times/min
- 10 W: 75/95/120 Times/min

#### Rotating Rate (LED)
- Same as Flashing (LED)

#### Ambient Temperature
- -40 to +70°C

#### Humidity
- ≤ 95% RH

### Mechanical Specification:
- Enclosure: Flame Retardant Polycarbonate
- Lens Cover: Flame Retardant Polycarbonate
- Red, Amber, Blue, Green, Clear or Other
- Red, Black or Other

### Ingress Protection
- IP 66

### Weight
- 0.3 kg / 1.1 lb

### Dimensions
- Length: 100 mm / 3.94”
- Width: 100 mm / 3.94”
- Height: 136.5 mm / 5.37”

### Electrical Specification:
- Power Supply: 12-48V DC or 100-240V AC
- Terminal: ≤ 2.5mm² Cable
- ≤ 20mm² (customer open)

#### Working Current

<table>
<thead>
<tr>
<th>LED</th>
<th>Power</th>
<th>12V DC</th>
<th>24V DC</th>
<th>48V DC</th>
<th>110V AC</th>
<th>220V AC</th>
</tr>
</thead>
<tbody>
<tr>
<td>5W</td>
<td>530mA</td>
<td>265mA</td>
<td>120mA</td>
<td>80mA</td>
<td>45mA</td>
<td>25mA</td>
</tr>
<tr>
<td>10W</td>
<td>1100mA</td>
<td>530mA</td>
<td>240mA</td>
<td>160mA</td>
<td>90mA</td>
<td>60mA</td>
</tr>
</tbody>
</table>

**Table**

### The Meaning of Lens Color Usage in the International Standard (IEC 60073)

<table>
<thead>
<tr>
<th>Colour</th>
<th>Meaning</th>
<th>Action</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>Emergent</td>
<td>Dangerous state, take immediate action</td>
<td></td>
</tr>
<tr>
<td>Amber</td>
<td>Abnormal</td>
<td>Abnormal state, near the critical status</td>
<td></td>
</tr>
<tr>
<td>Green</td>
<td>Safe</td>
<td>Normal state</td>
<td></td>
</tr>
<tr>
<td>Blue</td>
<td>Mandatory</td>
<td>Requires operator’s action</td>
<td></td>
</tr>
<tr>
<td>Clear</td>
<td>Other state, when there is uncertainty for other colors, clear is allowed to be used</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Pressure/Temperature beyond the safe state = Shutdown due to the action of protective devices = Fire alarm = Equipment failure alarm = Danger of contact with live or moving parts
- Pressure/Temperature above the normal range = Overload when only withstand for a short time = Protective device is released = Harmful gases release alarm = Overload alarm = Protective device is released
- Pressure/Temperature in normal state = Automatic control system is operating normally = Current measured is normal = Normal state = Automatic control system is operating normally
- General information = Indicate the measured values = General information = Avoid using red, yellow, green or blue = Used for the implementation of command

---

**Norway**
- Address: Maskinvieien 12, P.O.Box 256 Forus, 4066 Stavanger, Norway
- Phone: +47 51 63 00 70
- Fax: +47 51 63 00 72
- Email: post@ex-tech.no
- Website: www.ex-tech.no

**France**
- Phone: +33 545618168
- Mobile: +33 679530429

**UK**
- Phone: +44 (0) 1625 268071
- Mobile: +44 (0) 7510 888025

**Singapore**
- Phone: +65 6795 3007 / 6493 9355
- Fax: +65 6515 8555

---

*Ex-Tech* will not assume liability for the use thereof. Additional contact information please refer to our website. *Ex-Tech* reserves the right to improve specifications without prior notice, please refer to our website for updated information or contact our local sales representative.