



Visual Signals  
**EXPLOSION PROOF**  
**Stainless Steel BEACON**

Lens Guard not  
supplied as standard

Explosion Proof Beacon >  
Stainless Steel BC125 Series

Product overview

The BC125 range has been approved for use in potentially explosive atmospheres and very harsh environmental conditions.

Typical applications are Oil and Gas, On-shore and Offshore, Chemical, Petrochemical, Refineries & Marine locations etc.

These beacons have a choice of two types of light source: either Xenon (strobe) with multiple flash rate and power ratings or an LED array with three status type indication options and two power ratings. The design allows for termination inside the enclosure.

The units also have the ability to be fitted with a telephone initiation function and can be used as the second ring output indicator for telephones when installed in very noisy environments.

Features/Certifications

- Approved by ATEX and CQST
  - IMETRO and IECEx (Pending)
- ATEX: II 2G Exd IIC T4 - T6 (incorporating IIA & IIB )
- Zones 1&2, Zones 21&22 (Pending)
- Conforms to EN (IEC) 60079-0 EN (IEC) 60079-1 and EN54
- 360° light output around the vertical axis
- Dustproof & Weatherproof

BC125 Series > Ordering Information

Follow the chart (right) to generate your part code.

|         | Lens Colour | Beacon Type | Power (Xenon)* | Power (LED)*      | Voltage        | Duty Label | Tag Label       | Lens Guard  | Cable Entry | Finish Colour | Telephone Initiated |
|---------|-------------|-------------|----------------|-------------------|----------------|------------|-----------------|-------------|-------------|---------------|---------------------|
| BC125 + | Y = Amber   | X = Xenon   | 05 = 5J        | 05 = 5W           | DC<br>12 - 48v | Y = Yes    | Y = Yes         | Y = Yes     | A = M20     | RD = Red      | Y = Yes             |
|         | R = Red     |             | 10 = 10J       | 10 = 5W           |                |            | B = M25         | YW = Yellow |             |               |                     |
|         | B = Blue    |             | L = LED        | 15 = 15J          | 10 = 10W       |            | AC1<br>12 - 48v | N = No      | N = No      | C = 1/2 NPT   |                     |
|         | G = Green   | 21 = 21J    |                | AC2<br>100 - 240v | O = Other      |            | D = 3/4 NPT     | BL = Black  | N = No      |               |                     |
|         | C = Clear   |             |                |                   |                |            | O = Other       | OR = Other  |             |               |                     |
|         | O = Other   |             |                |                   |                |            |                 |             |             |               |                     |

\* Choose either Xenon power or LED power only

MODEL CONFIGURATOR (By using the table above, complete this box sequence to select your required beacon).

|             |             |                |              |         |            |           |            |             |               |                     |  |
|-------------|-------------|----------------|--------------|---------|------------|-----------|------------|-------------|---------------|---------------------|--|
| BC125       |             |                |              |         |            | Y         |            |             |               |                     |  |
| Lens Colour | Beacon Type | Power (Xenon)* | Power (LED)* | Voltage | Duty Label | Tag Label | Lens Guard | Cable Entry | Finish Colour | Telephone Initiated |  |

\* Choose either Xenon power or LED power only

Note: All customers orders will be confirmed in writing. Care should be taken that the correct code has been ordered as be-spoke manufactured products cannot be returned for exchange or credit later.

Kg 5.4

°C -40+70

IP 66/67

INDUSTRIAL

MARINE

STAINLESS STEEL

APPROVALS and  
CONFORMITIES



# Explosion Proof Beacon > Stainless Steel BC125 Series

## General Information

EX CODE: Exd IIC T4 - T6

CERTIFICATION: ATEX, CQST

TYPE: Xenon or LED Visual Beacon

| Xenon Working Status |               | Xenon - Flashing                          |                |                |  |
|----------------------|---------------|-------------------------------------------|----------------|----------------|--|
| Flash Rate           |               | Selectable from 60-180 Flashes per Minute |                |                |  |
| Power Rating         | 5 J (10W) Max | 10 J (15W) Max                            | 15 J (20W) Max | 21 J (25W) Max |  |
| Effective Candela    | 109           | 293                                       | 395            | 424            |  |

| LED Working Status |     | LED - Flashing / Rotating / Static            |  |
|--------------------|-----|-----------------------------------------------|--|
| Flash Rate         |     | Selectable from 60-120 Flashes per Minute     |  |
| Rotation Rate      |     | Selectable from 60-120 Revolutions per Minute |  |
| Static Mode        |     | Permanently ON (ie Steady)                    |  |
| Power Rating       | 5 W | 10 W                                          |  |
| Effective Candela  | 128 | 312                                           |  |

### MULTIPLYING FACTOR FOR COLOURED LENSES:

Yellow (Amber) x 0.51, Red x 0.15, Blue x 0.12, Green x 0.49, Clear x 0

### Mechanical Specifications

**MATERIAL:** Enclosure: Stainless Steel 316  
Lens: Tempered Glass

**LENS COLOURS:** Yellow (Amber), Red, Blue, Green, Clear or Other (specify)

**ENCLOSURE COLOUR:** Red (RAL3001), Yellow (RAL1003)  
Blue (RAL5005), Black (RAL9004)

**WEIGHT:** 5.4 Kg / 11.9 lb

**DIMENSIONS:** Length/Width: 125mm / 4.92" Height: 181.2mm / 7.13"

**INGRESS PROTECTION:** IP 66 & 67

**AMBIENT TEMPERATURE:** -40 to +70

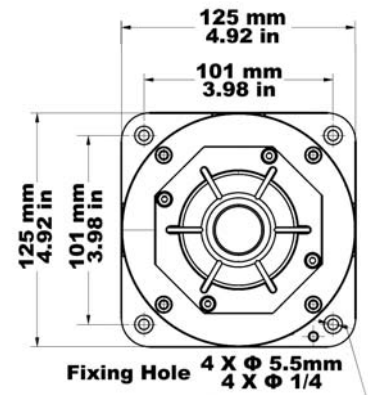
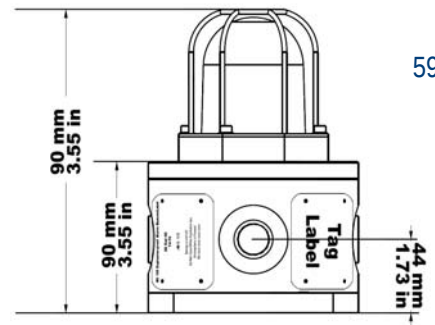
**HUMIDITY:** ≤ 95% RH

### Electrical Specifications

**POWER SUPPLY:** 12-48v Dc, 12-48v Ac or 100-240v Ac

**TERMINATION:** Accepts upto ≤ 2.5mm<sup>2</sup> incorporating rising clamp protectors

**CABLE ENTRY:** 4 x M20, M25, 1/2"NPT, 3/4"NPT or Other (Specify)



## Spareparts & Accessories

|                                          |                |
|------------------------------------------|----------------|
| Cage Guard S/S                           | 05/50060110109 |
| Xenon PCB (DC)                           | 05/50060400621 |
| Xenon PCB (AC)                           | 05/50060400622 |
| LED PCB (DC)                             | 05/50060400611 |
| LED PCB (AC)                             | 05/50060400612 |
| M20 Stainless Steel Exd Blind Plug       | 05/55100110920 |
| M25 Stainless Steel Exd Blind Plug       | 05/55100110925 |
| 1/2" NPT Stainless Steel Exd Blind Plug  | 05/55100110821 |
| 3/4" NPT Stainless Steel Exd Blind Plug  | 05/55100110843 |
| M20 Stainless Steel Exd Cable Gland      | 05/CG SM020X   |
| M25 Stainless Steel Exd Cable Gland      | 05/CG SM025X   |
| 1/2" NPT Stainless Steel Exd Cable Gland | 05/CG SN012X   |
| 3/4" NPT Stainless Steel Exd Cable Gland | 05/CG SN034X   |

## BC125 Series > Working Current

| Xenon  |         |        |        |         |         | LED   |         |        |        |         |         |
|--------|---------|--------|--------|---------|---------|-------|---------|--------|--------|---------|---------|
| ENERGY | 12v Dc  | 24v Dc | 48v Dc | 110v Ac | 220v Ac | POWER | 12v Dc  | 24v Dc | 48v Dc | 110v Ac | 220v Ac |
| 5 J    | 460 mA  | 280 mA | 140 mA | 60 mA   | 35 mA   | 5 W   | 530 mA  | 260 mA | 120 mA | 80 mA   | 40 mA   |
| 10 J   | 850 mA  | 490 mA | 250 mA | 100 mA  | 60 mA   | 10 W  | 1100 mA | 530 mA | 240 mA | 160 mA  | 80 mA   |
| 15 J   | 1200 mA | 700 mA | 360 mA | 140 mA  | 80 mA   |       |         |        |        |         |         |
| 21 J   | N/A     | 960 mA | 480 mA | 180 mA  | 110 mA  |       |         |        |        |         |         |