

# DATASHEET - BC 125 Ex BEACON/LIGHT

## AUDIBLE & VISUAL SIGNALLING EQUIPMENT



**DESCRIPTION** BC 125 Ex Beacon & Light is designed according to EN/IEC 60079-0, EN/IEC 60079-1 and EN 54 standard. Enclosure material is Stainless Steel. This product is certified for use and installation in Zone 1 and Zone 2 areas with gases groups of IIA, IIB, IIC and temperature classification of T4~T6. It especially applies to Oil & Gas, Offshore Platform, Chemical, Petrochemical, Refinery and Marine Industries etc.

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

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

**MAIN FEATURES** • Ex d IIC • Zone 1 & 2 • Industrial Explosive Gas Environment • IP 66/67 • Stainless Steel Enclosure • Tempered Glass Lens • Xenon or LED Type • Xenon: 2.5, 5, 10, 15 or 20 Joule, Flashing Type • LED: 5 or 10W, Flashing, Rotating or Steady Type Available • Flashing or Rotating Frequency Adjustable • Powder Coated Finish • 5 Lens Colours: Red, Amber, Blue, Green and Clear • 12-48V DC or 100-240V AC Version • Electrical Board (PCB) Replacable • Telephone Initiated Function Optional • Standard: EN/IEC 60079-0, EN/IEC 60079-1, EN 54.

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

### INTENDED USE



- zone 1 & 2
- zone 21 & 22 (pending)

## ORDER INFORMATION - BC 125 - EX BEACON/LIGHT

PRODUCT NUMBER	LENS COLOUR	TYPE	POWER	VOLTAGE	DUTY LABEL	TAG LABEL	LENS GUARD	CABEL ENTRY	FINISH COLOUR	TELEPHONE INITIATED
BC 125 +	<input type="checkbox"/> R = RED <input type="checkbox"/> A = AMBER <input type="checkbox"/> B = BLUE <input type="checkbox"/> G = GREEN <input type="checkbox"/> C = CLEAR <input type="checkbox"/> O = OTHER	<b>X</b> = XENON  <b>L</b> = LED	2 Xenon: 2.5J  5 LED: 5W Xenon: 5J  10 LED: 10W Xenon: 10J  15 Xenon: 15J  20 Xenon: 20J	<b>DC</b> 12 ~ 48V  <b>AC</b> 100 ~ 240V  <b>OR OTHER</b> Other voltages available on request.	Y = YES   N = NO	Y = YES   N = NO	Y = YES   N = NO	A-M20 B-M25 C-1/2NPT D-3/4NPT O-OTHER	RD = RED YW = YELLOW BU = BLUE BL = BLACK OR = OTHER	Y=YES   N=NO

MODEL CONFIGURATOR

BC 125 + [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

## DIMENSIONS - BC 125 - EX BEACON/LIGHT




## SPAREPARTS & ACCESSORIES

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

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## TECHNICAL INFORMATION - BC 125 - EX BEACON/LIGHT

EX CODE	• Ex d II C T4~T6
ATEX MARKING	•  II 2 G
TYPE	• Xenon or LED
XENON	• 2.5, 5, 10, 15 or 20 Joule
LED	• 5 or 10 Watt
EFFECTIVE CANDELA (XENON)*	• 5 Joule: 109Cd    10 Joule: 293Cd    15Joule: 395Cd    20Joule: 424Cd
PEAK CANDELA (XENON)*	• 5 Joule: 35 970Cd    10 Joule: 66 804Cd    15Joule: 83 345Cd    20Joule: 95 824Cd
EFFECTIVE CANDELA (LED)*	• 5 W: 128Cd    10 W: 312 Cd
MULTIPLYING FACTOR OF COLOURED LENS COVER	• Amber: 0,51    Green: 0,49    Red: 0.15    Blue: 0,12
WORKING STATUS	• <b>Xenon:</b> Flashing <b>LED:</b> Flashing, rotating or steady
FLASHING RATE (XENON)	• 60/80/120 Times/min    100/120/150 Times/min    120/150/180 Times/min
FLASHING RATE (LED)	• 60/75/0 * Times/min    75/95/0 * Times/min (* 0 Presents Steady Status ) 60/75/100 Times/min    75/95/120 Times/min
ROTATING RATE (LED)	• Same as Flashing (LED)
AMBIENT TEMPERATURE	• -40 to + 70° C
HUMIDITY	• ≤ 95% RH
<b>MECHANICAL SPECIFICATION:</b>	
MATERIAL	• <b>Enclosure:</b> Stainless steel
LENS	• <b>Tempered Glass, through coloured in;</b> Red, amber, blue, green, clear or other (specify)
ENCLOSURE FINISH	• <b>Powder coated in colour:</b> Red, yellow, Blue, Black or other (specify)
INGRESS PROTECTION	• IP 66/67
WEIGHT	• 5,4 kg / 11,9 lb
DIMENSIONS	• <b>Length:</b> 125 mm / 4.92" <b>Width :</b> 125 mm / 4.92" <b>Height:</b> 181.2 mm / 7.13"
<b>ELECTRICAL SPECIFICATION:</b>	
POWER SUPPLY	• 12-48V DC or 100-240V AC
TERMINAL	• ≤ 2,5mm <sup>2</sup> Cable
CABLE ENTRY	• 4 x M20, M25, 1/2"NPT, 3/4"NPT or Other (Specify)
CERTIFICATION	• ATEX, IECEx(Pending), IMETRO (Pending), CQST
<b>WORKING CURRENT</b>	

### INTENDED USE



- zone I & 2
- zone 21 & 22 (pending)

\* Candela Presents  
Clear Lens @ 1Hz  
Flash Rate

LED	XENON					
	Power	12V DC	24V DC	48V DC	110V AC	220V AC
	5W	530mA	260mA	120mA	80mA	40mA
	10W	1100mA	530mA	240mA	160mA	80mA

XENON	Energy	12V DC	24V DC	48V DC	110V AC	220V AC
	2,5J	220mA	150mA	80mA	45mA	25mA
	5J	460mA	280mA	140mA	60mA	35mA
	10J	850mA	490mA	250mA	100mA	60mA
	15J	1200mA	700mA	360mA	140mA	80mA
	20J	NA	960mA	480mA	180mA	110mA

## THE MEANING OF LENS COLOUR USAGE IN THE INTERNATIONAL STANDARD (IEC 60073)

COLOUR	MEANING	ACTION	EXAMPLE
RED	EMERGENT	DANGEROUS STATE, TAKE IMMEDIATE ACTION	• 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
AMBER	ABNORMAL	ABNORMAL STATE, NEAR THE CRITICAL STATUS	• Pressure/Temperature above the normal range • Protective device is released • Toxic and harmful gases release alarm • Overload when only withstand for a short time
GREEN	SAFE	NORMAL STATE	• Pressure/Temperature in normal state • Automatic control system is operating normally
BLUE	MANDATORY	REQUIRES OPERATOR'S ACTION	• Emergency evacuation • Abandon rescue and escape • Abandon platform or abandon ship • Enter the command
CLEAR	NO SPECIAL SIGNIFICANCE	OTHER STATE, WHEN THERE IS UNCERTAINTY FOR OTHER COLOURS, CLEAR IS ALLOWED TO BE USED	• General information • Can't exactly use red, yellow, green or blue • Used for the implementation of command • Indicate the measured values