

DATASHEET - BC 125 Ex BEACON /LIGHT

AUDIBLE & VISUAL SIGNALLING EQUIPMENT



DESCRIPTION - BC 125 Ex BEACON /LIGHT

This beacon is certified for use in Atex/explosive atmosphere, zone 1 & 2 for gas and zone 21 & 22 for dust. It is dedicated for Oil & Gas, chemical, petrochemical, pharmacy industries, marine and Offshore applications. It's designed for corrosive environments and hazardous area. The BC125 can also be used as status light.

This beacon can be delivered with two different light sources; LED with steady, rotary, fixed or blinking led of different powers. Flashing with XENON tube of different powers. Four flashing frequencies are selectable. Optional it is possible to control the beacon via a telephone line.

Housing is made of stainless steel 316L covered with UV resistant paint, the lens is made of borosilicate glass.

A complete range of accessories is available to customize a products. (see accessories annex)



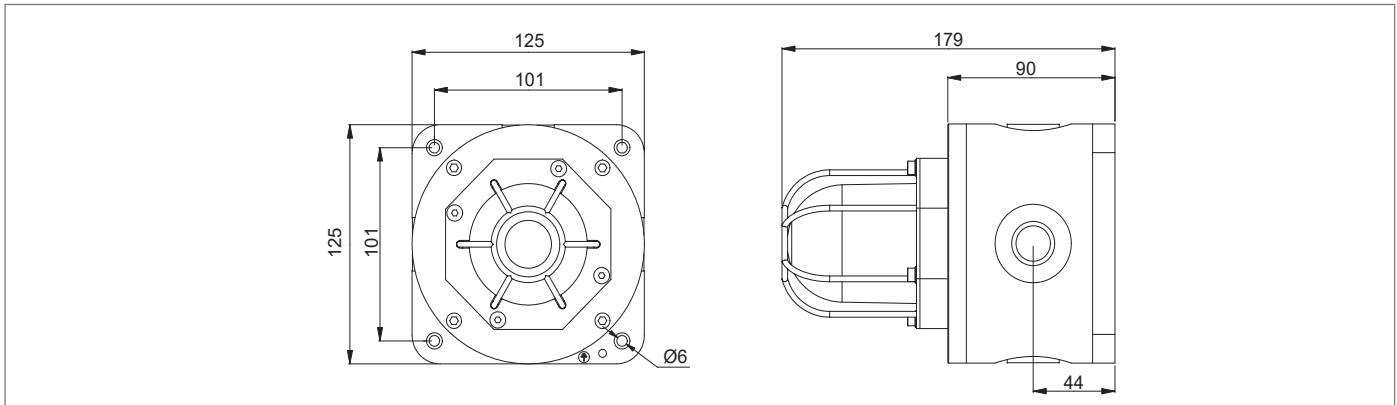
- zone 1 & 2
- zone 21 & 22

PRODUCT CODE CONFIGURATOR

LENS COLOR	TYPE	POWER	VOLTAGE	DUTY LABEL	TAG LABEL	LENS GUARD	CABLE ENTRY	FINISH COLOR	TELEPHONE INITIATED
■ R = RED	X = Xenon	05 LED: 5W Xenon: 5J	DC 12 .. 48V DC	Y = Yes	Y = Yes	Y = Yes	A = M20	■ RD = RED	Y = Yes
■ A = AMBER		10 LED: 10W Xenon: 10J	AC1 12..48V AC				B = M25	■ YW = YELLOW	
■ B = BLUE							C = 1/2" NPT	■ BU = BLUE	
■ G = GREEN	L = LED	15 Xenon: 15J	AC 100 .. 240V AC	N = No	N = No	N = No	D = 3/4" NPT	■ BL = BLACK	N = No
■ C = CLEAR		21 Xenon: 21J	OR (Other Request)					□ OR = OTHER ON REQUEST	

ADD THE CODES RELATED TO THE FEATURES REQUIRED TO BC125:


--	--	--	--	--	--	--	--	--	--



DATASHEET - BC 125 Ex BEACON /LIGHT

AUDIBLE & VISUAL SIGNALLING EQUIPMENT

TECHNICAL DATA

MATERIAL	<ul style="list-style-type: none"> • ENCLOSURE: Stainless steel 316L • LENS: Tempered borosilicate glass 3.3 																														
COLOUR	<ul style="list-style-type: none"> • RED : RAL 3001 - YELLOW** : RAL1018 - BLUE** : RAL5005 - BLACK** : RAL9005 																														
INGRESS PROTECTION	<ul style="list-style-type: none"> • IP66/67 																														
AMBIENT TEMPERATURE FOR OPERATION	<ul style="list-style-type: none"> • T6 = - 40°C ~ + 55°C , T5 = - 40°C ~ + 60°C, T4 = - 40°C ~ + 70°C 																														
CERTIFICATION	<ul style="list-style-type: none"> • Nemko 13 ATEX 1561X, IECEx NEM 13.0030X 																														
EX CODE	<ul style="list-style-type: none"> •  II 2 GD Ex d IIC T4 ~ T6 Gb, Ex tb IIIC T135°C ~T85°C, 																														
STANDARD	<ul style="list-style-type: none"> • EN / IEC 60079-0, EN / IEC 60079-1, EN / IEC 60079-31 																														
ATEX AREA ZONE	<ul style="list-style-type: none"> • Gas zone: 1 & 2 Dust zone: 21 & 22 																														
CANDELA LENS COLOR	<ul style="list-style-type: none"> • Red: 0.15 • Amber: 0.51 • Blue: 0.12 • Green: 0.49 • Clear: 1 																														
LIGHT TYPE	<table border="1"> <thead> <tr> <th></th> <th>Flash tube (XENON)</th> <th>LED</th> </tr> </thead> <tbody> <tr> <td>TRUE LIGHT INTENSITY</td> <td> <ul style="list-style-type: none"> • 5 joules = 109 Cd • 10 joules = 293 Cd • 15 joules = 395 cd • 21 joules = 424 Cd </td> <td> <ul style="list-style-type: none"> • 5 W = 128 Cd • 10W = 312 Cd </td> </tr> <tr> <td>PEAK LIGHT INTENSITY</td> <td> <ul style="list-style-type: none"> • 5 joules = 35970 Cd • 10 joules = 66804 Cd • 15 joules = 83345 Cd • 21 joules = 95824 Cd </td> <td></td> </tr> <tr> <td>TIME LIFE</td> <td> <ul style="list-style-type: none"> • Emissions are reduced to 70% after 8 million flashes </td> <td> <ul style="list-style-type: none"> • >50 000 hours without luminosity decreasing </td> </tr> <tr> <td>BLINKING OR ROTARY FREQUENCY (0 = steady status)</td> <td> <ul style="list-style-type: none"> • 60/80/120 times/min • 100/120/150 times/min • 120/150/180 times/min </td> <td> <ul style="list-style-type: none"> • 60/75/0 times/min • 60/75/100 times/min • 75/95/0 times/min • 75/95/120 times/min </td> </tr> <tr> <td>CONSUMPTION</td> <td> <ul style="list-style-type: none"> • 5 Joules = 10W • 10 Joules = 15W • 15 Joules = 20W • 21 Joules = 25W </td> <td> <ul style="list-style-type: none"> • 5W • 10W </td> </tr> </tbody> </table>		Flash tube (XENON)	LED	TRUE LIGHT INTENSITY	<ul style="list-style-type: none"> • 5 joules = 109 Cd • 10 joules = 293 Cd • 15 joules = 395 cd • 21 joules = 424 Cd 	<ul style="list-style-type: none"> • 5 W = 128 Cd • 10W = 312 Cd 	PEAK LIGHT INTENSITY	<ul style="list-style-type: none"> • 5 joules = 35970 Cd • 10 joules = 66804 Cd • 15 joules = 83345 Cd • 21 joules = 95824 Cd 		TIME LIFE	<ul style="list-style-type: none"> • Emissions are reduced to 70% after 8 million flashes 	<ul style="list-style-type: none"> • >50 000 hours without luminosity decreasing 	BLINKING OR ROTARY FREQUENCY (0 = steady status)	<ul style="list-style-type: none"> • 60/80/120 times/min • 100/120/150 times/min • 120/150/180 times/min 	<ul style="list-style-type: none"> • 60/75/0 times/min • 60/75/100 times/min • 75/95/0 times/min • 75/95/120 times/min 	CONSUMPTION	<ul style="list-style-type: none"> • 5 Joules = 10W • 10 Joules = 15W • 15 Joules = 20W • 21 Joules = 25W 	<ul style="list-style-type: none"> • 5W • 10W 												
	Flash tube (XENON)	LED																													
TRUE LIGHT INTENSITY	<ul style="list-style-type: none"> • 5 joules = 109 Cd • 10 joules = 293 Cd • 15 joules = 395 cd • 21 joules = 424 Cd 	<ul style="list-style-type: none"> • 5 W = 128 Cd • 10W = 312 Cd 																													
PEAK LIGHT INTENSITY	<ul style="list-style-type: none"> • 5 joules = 35970 Cd • 10 joules = 66804 Cd • 15 joules = 83345 Cd • 21 joules = 95824 Cd 																														
TIME LIFE	<ul style="list-style-type: none"> • Emissions are reduced to 70% after 8 million flashes 	<ul style="list-style-type: none"> • >50 000 hours without luminosity decreasing 																													
BLINKING OR ROTARY FREQUENCY (0 = steady status)	<ul style="list-style-type: none"> • 60/80/120 times/min • 100/120/150 times/min • 120/150/180 times/min 	<ul style="list-style-type: none"> • 60/75/0 times/min • 60/75/100 times/min • 75/95/0 times/min • 75/95/120 times/min 																													
CONSUMPTION	<ul style="list-style-type: none"> • 5 Joules = 10W • 10 Joules = 15W • 15 Joules = 20W • 21 Joules = 25W 	<ul style="list-style-type: none"> • 5W • 10W 																													
AMBIENT HUMIDITY*	<ul style="list-style-type: none"> • until 95%* 																														
POWER SUPPLY	<ul style="list-style-type: none"> • 12-48V DC • 12-48V AC (50/60hz) • 100-240V AC (50/60hz) 																														
RATED IMPULSE WITHSTAND VOLTAGE	<ul style="list-style-type: none"> • 1kV following IEC 61000-4-5 																														
WORKING CURRENT LED	<table border="1"> <thead> <tr> <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>530 mA</td> <td>260 mA</td> <td>120 mA</td> <td>80 mA</td> <td>40 mA</td> </tr> <tr> <td>• 10W</td> <td>1100 mA</td> <td>530 mA</td> <td>240 mA</td> <td>160 mA</td> <td>80 mA</td> </tr> </tbody> </table>	Power	12V DC	24V DC	48V DC	110V AC	220V AC	• 5W	530 mA	260 mA	120 mA	80 mA	40 mA	• 10W	1100 mA	530 mA	240 mA	160 mA	80 mA												
Power	12V DC	24V DC	48V DC	110V AC	220V AC																										
• 5W	530 mA	260 mA	120 mA	80 mA	40 mA																										
• 10W	1100 mA	530 mA	240 mA	160 mA	80 mA																										
WORKING CURRENT XENON	<table border="1"> <thead> <tr> <th>Energy</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>• 5J</td> <td>460 mA</td> <td>280 mA</td> <td>140 mA</td> <td>60 mA</td> <td>35 mA</td> </tr> <tr> <td>• 10J</td> <td>850 mA</td> <td>490 mA</td> <td>250 mA</td> <td>100 mA</td> <td>60 mA</td> </tr> <tr> <td>• 15J</td> <td>1200 mA</td> <td>700 mA</td> <td>360 mA</td> <td>140 mA</td> <td>80 mA</td> </tr> <tr> <td>• 21J</td> <td>NA</td> <td>960 mA</td> <td>480 mA</td> <td>180 mA</td> <td>110 mA</td> </tr> </tbody> </table>	Energy	12V DC	24V DC	48V DC	110V AC	220V AC	• 5J	460 mA	280 mA	140 mA	60 mA	35 mA	• 10J	850 mA	490 mA	250 mA	100 mA	60 mA	• 15J	1200 mA	700 mA	360 mA	140 mA	80 mA	• 21J	NA	960 mA	480 mA	180 mA	110 mA
Energy	12V DC	24V DC	48V DC	110V AC	220V AC																										
• 5J	460 mA	280 mA	140 mA	60 mA	35 mA																										
• 10J	850 mA	490 mA	250 mA	100 mA	60 mA																										
• 15J	1200 mA	700 mA	360 mA	140 mA	80 mA																										
• 21J	NA	960 mA	480 mA	180 mA	110 mA																										
CABLES ENTRY	<ul style="list-style-type: none"> • 4 x M20, M25**, 1/2" NPT**, 3/4" NPT** or other** (Specify) 																														
TERMINAL	<ul style="list-style-type: none"> • From 22 to 14 AWG - from 0.50 mm² to 2.5 mm² 																														
NET WEIGHT	<ul style="list-style-type: none"> • 4.5 Kg 																														
EXTERNAL TRIGGER**	<ul style="list-style-type: none"> • 25Hz <f<50Hz 40V<u<100V Z = 2k Ohms 																														

* = without runoff - ** = optional - cable gland and blind plug not provided

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

COLOR	MEANING	ACTION	EXAMPLE
■ RED	EMERGENT	Dangerous state Take immediat action	<ul style="list-style-type: none"> • Pressure/Temperature beyond the safe state - Shutdown due to the action of protective devices - Fire alarm - Equipment failure alarm
■ AMBER	ABNORMAL	Abnormal state, near the critical status	<ul style="list-style-type: none"> • Pressure/Temperature above the normal range - Protective device released - Toxic and harmful gases release alarm
■ GREEN	SAFE	Normal state	<ul style="list-style-type: none"> • Pressure/Temperature in normal state - Automatic control system is operating normally
■ BLUE	MANDATORY	Requires operator's action	<ul style="list-style-type: none"> • Emergency evacuation - Abandon rescue and escape - Abandon platform or abandon ship - Enter the command
■ CLEAR	NO SPECIAL SIGNIFICANCE	If uncertainty for other colors, clear is allowed to be used	<ul style="list-style-type: none"> • General information - Can't exactly use red, yellow, green or blue - Used for the implementation of command - Indicate the measured values