

DATASHEET - BC 150 Ex BEACON/LIGHT

AUDIBLE & VISUAL SIGNALLING EQUIPMENT



DESCRIPTION BC 150 Ex Beacon/Light is designed according to EN/IEC 60079-0, EN/IEC 60079-1, EN/IEC 60079-31 and EN 54 standard. Enclosure material is GRP. This product is certified for use and installation in Zone 1 and Zone 2 areas with gas 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. The product is also certified for use in Zone 21 and Zone 22 for Dust areas.

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 • IP 66/67 • GRP Enclosure • Tempered Glass Lens • Xenon or LED Type • Xenon: 5, 10, 15 or 20 Joule, Flashing Type • LED: 5 or 10W, Flashing, Rotating or Steady Type Available • Flashing or Rotating Frequency Adjustable • Natural GRP Finish Colours without Painting • 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

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

CERTIFICATION

Atex approved: Ex II GD, Ex d IIC T4-T6 Gb, Ex tb IIIC T135° ~ T85°
IECEx certified: Gb; Ex d IIC T4-T6 Gb, Db; Ex tb IIIC T135° ~ T85°
Standard: EN/IEC 60079-0, EN/IEC 60079-1, EN/IEC 60079-31 and EN 54

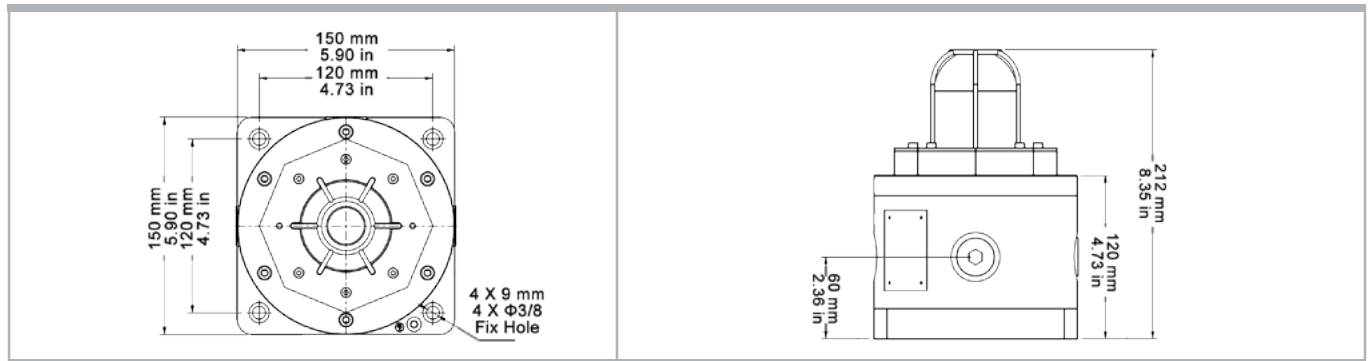
INTENDED USE

	• zone I & 2	Nemko I3 ATEX I561X
	• zone 21 & 22	IECEx NEM I3.0030X

ORDER INFORMATION - BC 150 - EX BEACON/LIGHT

PRODUCT NUMBER	LENS COLOUR	TYPE	POWER	VOLTAGE	DUTY LABEL	TAG LABEL	LENS GUARD	CABEL ENTRY	FINISH COLOUR	TELEPHONE INITIATED
BC 150 +	<ul style="list-style-type: none"> ■ R = RED ■ A=AMBER ■ B = BLUE ■ G = GREEN ■ C =CLEAR 	<ul style="list-style-type: none"> X = XENON L = LED 	<ul style="list-style-type: none"> 5 LED: 5W Xenon: 5J 10 LED: 10W Xenon: 10J 15 Xenon: 15J 20 Xenon: 20J 	<ul style="list-style-type: none"> DC 12 ~ 48V AC 100 ~ 240V 	<ul style="list-style-type: none"> Y = YES N = NO 	<ul style="list-style-type: none"> Y = YES N = NO 	<ul style="list-style-type: none"> Y = YES N = NO 	<ul style="list-style-type: none"> A-M20 B-M25 C-½NPT D-¾NPT 	<ul style="list-style-type: none"> ■ RD = RED ■ YW= YELLOW ■ BU= BLUE ■ BL =BLACK 	<ul style="list-style-type: none"> Y=YES N=NO
MODEL CONFIGURATOR	BC 150 +									

ORDER INFORMATION & DIMENSIONS - BC 150 - 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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DATASHEET - BC 150 Ex BEACON/LIGHT

AUDIBLE & VISUAL SIGNALLING EQUIPMENT

TECHNICAL INFORMATION - BC 150 - EX BEACON/LIGHT

EX CODE / IECEX	• Ex d IIC T4-T6 Gb , Ex tb IIIC T135° ~ T85°			
ATEX MARKING	• II 2 G			
TYPE	• Xenon or LED			
XENON	• 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 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)	• 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) 60/75/100Times/min 75/95/120Times/min			
ROTATING RATE (LED)	• Same as Flashing (LED)			
AMBIENT TEMPERATURE	• -40 to + 70° C			
HUMIDITY	• ≤ 95% RH			
MECHANICAL SPECIFICATION:				
MATERIAL	• Enclosure: Glass Reinforced Polyester			
LENS	• Tempered glass, through coloured in: Red, amber, blue, green, clear			
ENCLOSURE FINISH	• Natural material in colour: Red, yellow, Blue, Black or other (specify)			
INGRESS PROTECTION	• IP 66 (Option: IP 67)			
WEIGHT	• 3,8 kg / 8,3 lb			
DIMENSIONS	• Length: 150 (mm) / 5.91" Width: 150 (mm) / 5.91" Height: 212 mm / 8.35"			
ELECTRICAL SPECIFICATION:				
POWER SUPPLY	• 12-48V DC or 100-240V AC			
TERMINAL	• ≤ 2,5mm ² Cable			
CABLE ENTRY	• Standard: 4 x M20 (Option: M25, 1/2" or 3/4 " NPT)			
CERTIFICATION	• ATEX, IECEX, IMETRO (Pending), CQST			
WORKING CURRENT				

INTENDED USE



- zone 1 & 2
- zone 21 & 22

* Candela Presents Clear Lens @ 1Hz Flash Rate

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

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

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 COLORS, 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

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