

BC 150 EX beacon / light



The flameproof BC150 beacon is ATEX / IECEx Certified for use in potentially explosive atmospheres, helping to signal alarms, alerting personnel to potential dangers, or signal the need for immediate action in emergency situations. The BC150 can also be used as part of a status light array.

ATEX / IECEx Flameproof Certification: ATEX Zone 1 and Zone 2 Certified for gas / vapour and Zone 21 and Zone 22 compliant for dust / powder applications.

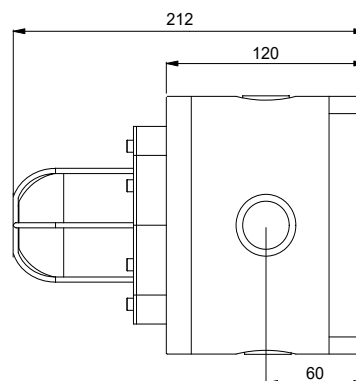
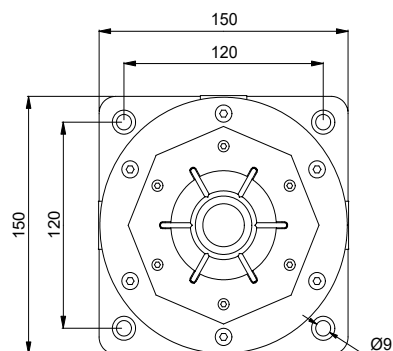
Application: Oil and gas, chemical, petrochemical, pharmaceutical, marine and offshore applications

Key features: Robust and highly reliable, this Ex beacon is designed for corrosive environments and hazardous areas. Housing is moulded Glass-Reinforced Polyester (GRP), protected by an UV resistant paint. The lens is made of borosilicate glass and is available with a 316L stainless steel lens guard option.


Options: This beacon can be delivered with two different light sources:

- LED with steady, rotary or flashing options of different intensity.
- Flashing with XENON tube of different intensity.
- Four flashing frequencies are selectable.

A range of accessories is available to customise this product. These include pipe mounting brackets, sunshades, tag and duty labels and other accessories.



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MATERIAL	<ul style="list-style-type: none"> • Enclosure: Glass-Reinforced Polyester (GRP) • Lens: Tempered borosilicate glass 3.3 																														
HOUSING COLOUR	<ul style="list-style-type: none"> • RED : RAL3001/3028 • BLACK : RAL9005 • ORANGE : RAL2010 • YELLOW : RAL1018 • GREEN : RAL6032 • BLUE : RAL5005 • GREY : RAL7038 																														
INGRESS PROTECTION	• IP66/67																														
AMBIENT TEMPERATURE FOR OPERATION	• T6 = - 40°C ~ + 55°C , T5 = - 40°C ~ + 60°C, T4 = - 40°C ~ + 70°C																														
CERTIFICATION	• Presafe 16 ATEX 8967X, IECEX PRE 16.0087X																														
EX CODE	 <ul style="list-style-type: none"> • II 2 GD Ex db IIC T4 ~ T6 Gb • Ex tb IIIC T135°C ~T85°C Db 																														
STANDARD	• EN / IEC 60079-0, EN / IEC 60079-1, EN / IEC 60079-31																														
ATEX AREA ZONE	• Gas zone: 1 & 2 Dust zone: 21 & 22																														
CANDELA LENS COLOUR	• Red: 0.15 • Amber: 0.51 • Blue: 0.12 • Green: 0.49 • Yellow: 0.85 • 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 • 15 joules = 395 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 • 15 joules = 83345 Cd </td> <td></td> </tr> <tr> <td>LIFETIME</td> <td>• Emissions are reduced to 70% after 8 million flashes</td> <td>• >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 • 15 joules = 20W </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 • 15 joules = 395 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 • 15 joules = 83345 Cd 		LIFETIME	• Emissions are reduced to 70% after 8 million flashes	• >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 • 15 joules = 20W 	<ul style="list-style-type: none"> • 5W • 10W 												
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AMBIENT HUMIDITY*	• Up to 95%*																														
POWER SUPPLY	• 12-48V DC • 100-240V AC (50/60hz)																														
RATED IMPULSE WITHSTAND VOLTAGE	• 1kV following IEC 61000-4-5																														
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CABLES ENTRY	• 4 x M20, 1 x M25 & 3 x M20, 1 x 1/2" NPT & 3 x M20, 1 x 3/4" NPT & 3 x M20. Additional adaptors can be supplied as well as cable glands, please specify.																														
TERMINAL	• From 22 to 14 AWG - from 0.50 mm ² to 2.5 mm ²																														
NET WEIGHT	• 3.6 Kg																														

* = without runoff - ** = optional (cable gland and blanking plugs can be supplied if required)

Phone: +44 (0)1752 333 933 | E-mail: sales@ex-techsignalling.com | Website: www.ex-techsignalling.com

Ex-tech Signalling Bell Close, Plympton, Devon, PL7 4JH, UK

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Product	Certification	Lens colour	Light type	Supply	Duty label	Tag label	Lens guard	Connection	Housing colour	Standard
BC	150	R	X10	DC	N	Y	Y	A	RD	N



<p>BC = BEACON</p> <p>150 = HAZARDOUS AREA 151 = NON-CERTIFIED</p> <p>R ● = RED A ● = AMBER B ● = BLUE G ● = GREEN Y ● = YELLOW C ○ = CLEAR</p> <p>X05 = XENON 5J L05 = LED 5W X10 = XENON 10J L10 = LED 10W X15 = XENON 15J X21 = XENON 21J</p> <p>DC = 12 - 48V DC AC = 100 - 240V AC</p> <p>Y = YES (SEE LIST) N = NO</p>	<p>N/A</p> <p>RD ● = RED (STD) YW ● = YELLOW BU ● = BLUE BL ● = BLACK GN ● = GREEN GY ● = GREY OJ ● = ORANGE OR ○ = OTHER</p> <p>A = 4 x M20 x 1.5 B = 1 x M25 x 1.5 & 3 x M20 x 1.5 C = 1 x 1/2" NPT & 3 x M20 x 1.5 D = 1 x 3/4" NPT & 3 x M20 x 1.5</p> <p>Additional adaptors can be supplied as well as blanking plugs and cable glands, see below.</p> <p>Y = YES N = NO</p> <p>Y = YES N = NO</p>
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CONDUIT ACCESSORIES	
M20 316L St. St Exd conduit plug	SPARE3060009
St. St Exd cable gland 10-16mm	SPARE3060109
1/2" NPT St. St. conduit adaptor	SPARE3060106
St. St Exd cable gland 7-12mm	SPARE3060108
M25 St. St. conduit adaptor	SPARE3060105
3/4" NPT St. St. conduit adaptor	SPARE3060107

CONDUIT ACCESSORIES	
M20 NPB Exd conduit plug	SPARE3060008
NPB Exd cable gland 10-16mm	SPARE3060018
1/2" NPT NPB conduit adaptor	SPARE3060019
NPB Exd cable gland 7-12mm	SPARE3060108
M25 NPB conduit adaptor	SPARE3060105
3/4" NPT NPB conduit adaptor	SPARE3060002

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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
● AMBER ● YELLOW	ABNORMAL	Abnormal state, near the critical status	Pressure/Temperature above the normal range - Protective device released - Toxic and harmful gases release alarm
● 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	If 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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