

## SB 150-1 Ex SOUNDER /BEACON



The flameproof SB150-1 sounder plus beacon combination is ATEX / IECEx certified for use in potentially explosive atmospheres and provides clear visual status indication (can be labelled accordingly). It is constructed from GRP.

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

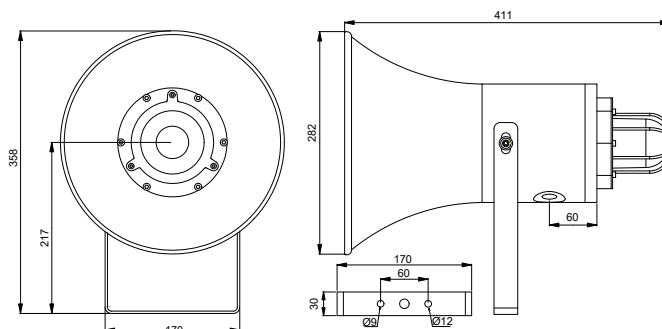
**Application:** Oil and gas, chemical, petrochemical, pharmaceutical, marine and offshore applications.

**Key features:** The explosion proof set is provided with a combination of sounder and beacons. Robust and highly reliable, the Ex assembly is designed for corrosive environments and hazardous areas. The housing is moulded in glass reinforced polyester corp and protected with UV resistant paint and the lens is made of borosilicate glass. The set is assembled on a stainless steel 316L backplate.

**Options:** The explosion proof sounder (horn) can be set with up to three tones among 59 prerecorded tones (according to user control system). Pausing of the signal can be done by an external switch. The housing bracket is made of 316L stainless steel covered with UV resistant paint. The mounting bracket is 316L Stainless steel. The explosion proof status light set can be delivered with two different light sources:

- LED with steady, rotary or flashing of different intensity.
- Flashing with XENON tube of different intensity.
- Four flashing frequencies are selectable.
- One of the status lights can be replaced by a push button or a junction box if required.
- The sounder and beacons can be triggered either jointly or independently.

A range of accessories is available to customise this ATEX / IECEx status light package. These include pipe mounting brackets, sunshades, tag and duty labels and other accessories.




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## SB 150-1 Ex SOUNDER /BEACON

MATERIAL	<ul style="list-style-type: none"> <li>• <b>Enclosure:</b> Glass-Reinforced Polyester (GRP)</li> <li>• <b>Lens:</b> Tempered borosilicate glass 3.3</li> <li>• <b>Bracket:</b> Stainless steel 316L</li> </ul>																																								
HOUSING COLOUR	<ul style="list-style-type: none"> <li>• RED : RAL3001</li> <li>• BLACK : RAL9005</li> <li>• ORANGE : RAL2010</li> <li>• YELLOW : RAL1018</li> <li>• GREEN : RAL6032</li> <li>• BLUE : RAL5005</li> <li>• GREY : RAL7038</li> </ul>																																								
INGRESS PROTECTION	• IP66/67																																								
AMBIENT TEMPERATURE FOR OPERATION	• <b>T6</b> = - 40°C ~ + 55°C , <b>T5</b> = - 40°C ~ + 60°C, <b>T4</b> = - 40°C ~ + 70°C																																								
CERTIFICATION	• <b>Presafe</b> 13 ATEX 1566X, IECEx NEM 13.0036X																																								
EX CODE	 <ul style="list-style-type: none"> <li>• II 2 GD Ex db IIC T4 ~ T6 Gb</li> <li>• Ex tb IIIC T135°C ~T85°C Db</li> </ul>																																								
STANDARD	• EN / IEC 60079-0, EN / IEC 60079-1, EN / IEC 60079-31, EN 54-3																																								
ATEX AREA ZONE	• <b>Gas zone:</b> 1 & 2 <b>Dust zone:</b> 21 & 22																																								
CANDELA LENS COLOUR	• Red: 0.15 • Amber: 0.51 • Blue: 0.12 • Green: 0.49 • Yellow: 0.85 • Clear: 1																																								
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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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\* = without runoff - \*\* = optional (cable gland and blanking plugs can be supplied if required)

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CONSUMPTION SOUNDER	• Adjustable from 5 to 25W (factory setting 20W)
CURRENT CONSUMPTION	• 0.5 to 1 A
SIGNALLING TYPE	• 59 tones siren. Specific customer tones can be recorded in factory
NOISE LEVEL	• Until 115 dB at 1m
CABLES ENTRY	• 2 x M20, 1 x M25 + 1 x M20, 1 x 1/2" NPT + 1 x M20, 1 x 3/4" NPT + 1 x M20
TERMINAL	• From 22 to 14 AWG - from 0.50 mm <sup>2</sup> to 2.5 mm <sup>2</sup>
NET WEIGHT	• 8.0 Kg

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

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



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

CONDUIT ACCESSORIES	
M20 316L St. St Exd conduit plug	SPARE3060009
St. St Exd cable gland 10-16mm	SPARE3060109
½" NPT St. St. conduit adaptor	SPARE3060106
St. St Exd cable gland 7-12mm	SPARE3060108
M25 St. St. conduit adaptor	SPARE3060105
¾" NPT St. St. conduit adaptor	SPARE3060107

CONDUIT ACCESSORIES	
M20 NPB Exd conduit plug	SPARE3060008
NPB Exd cable gland 10-16mm	SPARE3060018
½" NPT NPB conduit adaptor	SPARE3060019
NPB Exd cable gland 7-12mm	SPARE3060108
M25 NPB conduit adaptor	SPARE3060105
¾" NPT NPB conduit adaptor	SPARE3060002