#### Explosion Proof Sounder / Beacon Range

# ZT-SB150-1 Ex sounder / beacon





The flameproof ZT-SB150-1 sounder and beacon combination is ATEX / IECEx certified for use in potentially explosive atmospheres and provides clear visual and audible 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 sounder and beacon. Robust and highly reliable, the Ex assembly is designed for corrosive environments and hazardous areas. The housing is moulded in glass reinforced polyester GRP 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 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.

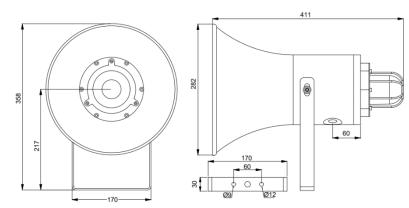
• The sounder and beacon can be triggered either jointly or independently.

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.







## ZT-SB150-1 Ex sounder / beacon



MATERIAL	• Enclosur	e: Glass-Reinf	forced •	Lens: Tempered	red borosilicate glass 3.3					
	Polyester	r (GRP)	•	Bracket: Stainl	inless steel 316L					
HOUSING COLOUR	• RED : RA		YELLOW	: RAL1018	• BLUE : RAL500	-				
	RAL3028		GREEN :	RAL6032	<ul> <li>GREY : RAL703</li> </ul>	8				
	BLACK : I									
		: RAL2010								
INGRESS PROTECTION	• IP66/67		<b>TE</b> 4000		4000 . 7000					
AMBIENT TEMPERATURE FOR	•16 = - 40	• <b>T6</b> = - 40°C ~ + 55°C , <b>T5</b> = - 40°C ~ + 60°C, <b>T4</b> = - 40°C ~ + 70°C								
OPERATION	• Presafe 13 ATEX 1566X, IECEX NEM 13.0036X									
CERTIFICATION	(r \									
EX CODE	_ 112									
	• Ex tb IIIC T135°C ~T85°C Db									
STANDARD		-		-1, EN / IEC 600	79-31, EN 54-3					
ATEX AREA ZONE		: 1 & 2 Dust z								
CANDELA LENS COLOUR	• Red: 0.15				Yellow: 0.85 • Clea					
LIGHT TYPE			be (XENON)			LED				
TRUE LIGHT INTENSITY	• 5 joules =		-	s = 293 Cd	• 5 W = 128 Cd	• <b>10W</b> = 312 Cd				
		= 395 Cd	• 21 joules							
PEAK LIGHT INTENSITY		= 35970 Cd	-	s = 66804 Cd						
		= 83345 Cd		s = 95824 Cd						
LIFETIME		s are reduced	to 70% afte	er 8 million	>50 000 hours without luminosity					
	flashes				decreasing					
FLASHING OR ROTARY		0 times/min		• 60/75/0 times/min						
FREQUENCY		150 times/min	• 60/75/100 time							
(0 = steady status)	• 120/150/1	180 times/min	I	• 75/95/0 times/min						
		• 75/95/120 times/m								
CONSUMPTION	• 5 joules =		• 10 joule		• 5W	• 10W				
	-	• 15 joules = 20W • 21 joules = 25W								
AMBIENT HUMIDITY*	• Up to 95%*									
POWER SUPPLY		• 12-48V DC • 100-240V AC (50/60hz)								
RATED IMPULSE WITHSTAND VOLTAGE	<ul> <li>1kV follow</li> </ul>	wing IEC 6100	0-4-5							
WORKING CURRENT LED	• 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	• 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				
CONSUMPTION SOUNDER	• Adjustabl	le from 5 to 2	5W (factory	setting 20W)						
CURRENT CONSUMPTION	• 0.5 to 1 A									
SIGNALLING TYPE	• 59 tones siren									
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									
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#### Explosion Proof Sounder / Beacon Range

## ZT-SB150-1 Ex sounder / beacon

ALABMS LIMITED

			Products	Certification	Lens Colour	Light Type & Supply	Duty Label	Tag Label	Lens Guard	Connection	Housing Colour	Standard	
		Prefix - ZT -	SB	150	R	X05 DC	Ν	Ν	Ν	Α	RD	Ν	Standard Product
	SB	~ BEACON / SOUNDER											N ~2xM20x1.6
	150	~ HAZARDOUS AREA											RD ~ • RED
	R	~ • RED											YW ~ • YELLOW
	Y	~ O YELLOW											BU ~ • BLUE
	в	~ • BLUE											BL ~ • BLACK
	G	~ O GREEN											GN ~ ● GREEN
	Α	~ 🔍 AMBER											GY ~ O GREY
	С	~ O CLEAR											OJ ~ • ORANGE
xo	5 DC	~ XENON 5J & DC Supply											OR ~ O OTHER
LO	5 DC	~ LED 5W & DC Supply											A ~2 x M20 x 1.6
X1	0 DC	~ XENON 10J & DC Supply											B ~ 2 x M25 x 1.5 (via Adaptor)
L1	0 DC	~ LED 10W & DC Supply											C ~ 2 x 1/2" NPT (via Adaptor)
X1	5 DC	~ XENON 15J & DC Supply											D ~ 2 x 3/4" NPT (via Adaptor)
X2	1 DC	~ XENON 21J & DC Supply											Y ~YES
		~ XENON 5J & AC Supply								_	_	_	N ~NO
		~ LED 5W & AC Supply											Y ~YES
		~ XENON 10J & AC Supply											N ~NO
		~ LED 10W & AC Supply											Y ~YES
		~ XENON 15J & AC Supply											N ~NO
X2	1 AC	~ XENON 21J & AC Supply											

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				
34" 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
34" NPT NPB conduit adaptor	SPARE3060002

Meaning of	Meaning of lens colour usage in the international standard (IEC 60073)							
Colour	Colour Meaning Action		Example					
			Pressure/Temperature beyond the safe state - Shutdown due to the action of protective devices - Fire alarm - Equipment failure alarm					
			Pressure/Temperature above the normal range - Protective device released - Toxic and harmful gases release alarm					
GREEN	EEN 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					
		other colors, clear is	General information - Can't exactly use red, yellow, green or blue - Used for the implementation of command - Indicate the measured values					