



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.

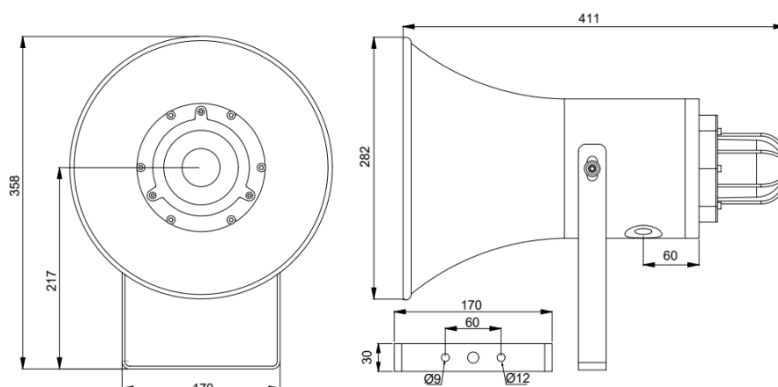
Application: Oil and gas, chemical, petrochemical, pharmaceutical, marine and offshore applications.

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.



Explosion Proof Sounder / Beacon Range

ZT-SB150-1 Ex sounder / beacon

MATERIAL	• Enclosure: Glass-Reinforced Polyester (GRP)		• Lens: Tempered borosilicate glass 3.3			
			• Bracket: Stainless steel 316L			
HOUSING COLOUR	• RED : RAL3001/ RAL3028		• YELLOW : RAL1018		• BLUE : RAL5005	
	• BLACK : RAL9005		• GREEN : RAL6032		• GREY : RAL7038	
	• ORANGE : RAL2010					
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 13 ATEX 1566X, IECEx NEM 13.0036X					
EX CODE	Ex • II 2 GD Ex db IIC T4 ~ T6 Gb					
	• Ex tb IIC T135°C ~T85°C Db					
STANDARD	• EN / IEC 60079-0, EN / IEC 60079-1, EN / IEC 60079-31, EN 54-3					
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	Flash tube (XENON)				LED	
TRUE LIGHT INTENSITY	• 5 joules = 109 Cd		• 10 joules = 293 Cd		• 5 W = 128 Cd	• 10W = 312 Cd
	• 15 joules = 395 Cd		• 21 joules = 424 Cd			
PEAK LIGHT INTENSITY	• 5 joules = 35970 Cd		• 10 joules = 66804 Cd			
	• 15 joules = 83345 Cd		• 21 joules = 95824 Cd			
LIFETIME	• Emissions are reduced to 70% after 8 million flashes				• >50 000 hours without luminosity decreasing	
FLASHING OR ROTARY FREQUENCY (0 = steady status)	• 60/80/120 times/min • 100/120/150 times/min • 120/150/180 times/min				• 60/75/0 times/min • 60/75/100 times/min • 75/95/0 times/min • 75/95/120 times/min	
CONSUMPTION	• 5 joules = 10W • 15 joules = 20W		• 10 joules = 15W • 21 joules = 25W		• 5W	• 10W
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					
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	• Adjustable from 5 to 25W (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 mm² to 2.5 mm²					
NET WEIGHT	• 8.0 Kg					

Explosion Proof Sounder / Beacon Range

ZT-SB150-1 Ex sounder / beacon



Prefix - ZT -

Products	Certification	Lens Colour	Light Type & Supply	Duty Label	Tag Label	Lens Guard	Connection	Housing Colour	Standard
SB	150	R	X05 DC	N	N	N	A	RD	N

← Standard Product

SB ~ BEACON / SOUNDER	N ~ 2 x M20 x 1.6
150 ~ HAZARDOUS AREA	RD ~ ● RED
R ~ ● RED	YW ~ ● YELLOW
Y ~ ● YELLOW	BU ~ ● BLUE
B ~ ● BLUE	BL ~ ● BLACK
G ~ ● GREEN	GN ~ ● GREEN
A ~ ● AMBER	GY ~ ○ GREY
C ~ ○ CLEAR	OJ ~ ● ORANGE
X05 DC ~ XENON 5J & DC Supply	OR ~ ○ OTHER
L05 DC ~ LED 5W & DC Supply	A ~ 2 x M20 x 1.6
X10 DC ~ XENON 10J & DC Supply	B ~ 2 x M25 x 1.5 (via Adaptor)
L10 DC ~ LED 10W & DC Supply	C ~ 2 x 1/2" NPT (via Adaptor)
X15 DC ~ XENON 15J & DC Supply	D ~ 2 x 3/4" NPT (via Adaptor)
X21 DC ~ XENON 21J & DC Supply	Y ~ YES
X05 AC ~ XENON 5J & AC Supply	N ~ NO
L05 AC ~ LED 5W & AC Supply	Y ~ YES
X10 AC ~ XENON 10J & AC Supply	N ~ NO
L10 AC ~ LED 10W & AC Supply	Y ~ YES
X15 AC ~ XENON 15J & AC Supply	N ~ NO
X21 AC ~ XENON 21J & AC Supply	

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

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