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.

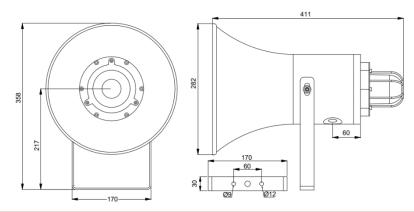
• One of the status lights can be replaced by a push button or a junction box if required.

- 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.







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MATERIAL	• Enclosure	e: Glass-Reinf	orced	• Lens: Tempered	d borosilicate glass	s 3.3					
	Polyester (GRP) • Bracket: Stainless steel 316L										
HOUSING COLOUR	RED : RAI RAL3028 BLACK : F ORANGE	RAL9005		V : RAL1018 : RAL6032	• BLUE : RAL500 • GREY : RAL7038	-					
INGRESS PROTECTION	• IP66/67										
AMBIENT TEMPERATURE FOR	• T6 = - 40	• T6 = - 40°C ~ + 55°C , T5 = - 40°C ~ + 60°C, T4 = - 40°C ~ + 70°C									
OPERATION											
CERTIFICATION	<u>_</u>	• Presafe 13 ATEX 1566X, IECEX NEM 13.0036X									
EX CODE	🖄 • II 2	• II 2 GD Ex db IIC T4 ~ T6 Gb									
	• Ex t	tb IIIC T135°C	~T85°C Db								
STANDARD	• EN / IEC	60079-0, EN /	/ IEC 60079	-1, EN / IEC 600	79-31, EN 54-3						
ATEX AREA ZONE	• Gas zone	:1&2 Dust zo	one: 21 & 22	!							
CANDELA LENS COLOUR	• Red: 0.15	• Amber: 0.51	• Blue: 0.12	• Green: 0.49 • '	Yellow: 0.85 • Clea	r: 1					
LIGHT TYPE		Flash tul	be (XENON))		LED					
TRUE LIGHT INTENSITY	• 5 joules =	= 109 Cd	• 10 joule	s = 293 Cd	• 5 W = 128 Cd	• 10W = 312 Cd					
		= 395 Cd									
PEAK LIGHT INTENSITY	-	= 35970 Cd	-	s = 66804 Cd							
		= 83345 Cd		s = 95824 Cd							
LIFETIME	2	s are reduced		without luminosity							
	flashes			decreasing							
FLASHING OR ROTARY		0 times/min			• 60/75/0 times/min						
FREQUENCY		50 times/min			• 60/75/100 times/min						
(0 = steady status)	• 120/150/1	80 times/min			• 75/95/0 times/r	min					
				• 75/95/120 times/min							
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	• 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 mm ² to 2.5 mm ²										
NET WEIGHT	• 8.0 Kg										

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					Product	Certification	Lens colour	Light type	Supply	Duty label	Tag label	Lens guard	Connection	Housing colour	Standard	
		Prefix	ZT-		SB	150	R	X10	DC	N	Y	Y	Α	RD	Ν	
BC	;	= SOUNDE	R BEAG	CON												N/A
150 151		= HAZARD = NON-CE														RD • = RED (STD) YW • = YELLOW
R	•	= RED														BU • = BLUE BL • = BLACK
A B		= AMBER = BLUE														GN • = GREEN
G		= GREEN														GY = GREY OJ = ORANGE
Y C	0	= YELLOW = CLEAR														OR O = OTHER
XO	5	= XENON 5	5J													A = 2 x M20 x 1.5
LO		= LED 5W														B = 1 x M25 x 1.5 & 1 x M20 x 1.5 C = 1 x 1/2" NPT & 1 x M20 x 1.5
X10	-	= XENON 1 = LED 10W														$D = 1 \times 3/4$ " NPT & 1 x M20 x 1.5
X1! X2	5	= XENON 1 = XENON 2	5J													Additional adaptors can be supplied as well as blanking plugs and cable glands, see below.
DC		= 12 - 48V														Y = YES
AC		= 100 - 240														N = NO
Y		= YES (SEE	E 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				
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 lens colour usage in the international standard (IEC 60073)									
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 SAFE Normal state		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						
O 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						