

SB 125 Series combined products

SIL2 compliant as IEC 61508 & IEC 61511



The flameproof SB125 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 316L stainless steel.

ATEX / IECEx Certification: ATEX Zone 1 and Zone 2 Certified for gas / vapour and Zone 21 and Zone 22 compliant for dust / powder applications. SIL2 compliant as IEC 61508 & IEC 61511.

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 316L stainless steel protected by an UV resistant paint. The lens is made with borosilicate glass 3.3. 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 explosion proof assembly 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 beacons 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.

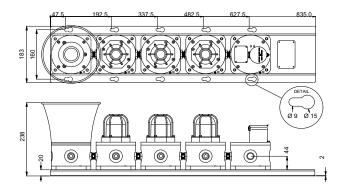












Phone: +44 (0)1752 333 933 | E-mail: sales@ex-techsignalling.com | Website: www.ex-techsignalling.com | Ex-tech Signalling Bell Close, Plympton, Devon, PL7 4JH, UK



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MATERIAL • Enclosure: Stainless Steel 316L • Lens: Tempered borosilicate glass 3.3

COLOUR • RED: RAL3001 • YELLOW: RAL1018 • BLUE: RAL5005 • BLACK: RAL9005 • GREEN: RAL6032 • GREY: RAL7038

• ORANGE: RAL2010

INGRESS PROTECTION • IP66/67

AMBIENT TEMPERATURE FOR • T6 = -40°C ~ +55°C , T5 = -40°C ~ +60°C, T4 = -40°C ~ +70°C

OPERATION

• Nemko 13 ATEX 1566X, IECEX NEM 13.0036X **CERTIFICATION**

EX CODE ⟨Ex⟩ • II 2 GD Ex d IIC T4 ~ T6 Gb

• Ex tb IIIC T135°C ~T85°C

STANDARD • EN / IEC 60079-0, EN / IEC 60079-1, EN / IEC 60079-31

• Gas zone: 1 & 2 Dust zone: 21 & 22 ATEX AREA ZONE

CANDELA LENS COLOUR • Red: 0.15 • Amber: 0.51 • Blue: 0.12 • Green: 0.49 • Yellow: 0.85 • Clear: 1

LIGHT TYPE	Flash tube	e (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 t	o 70% after 8 million	•>50 000 hours without luminosity			
	flashes		decreasing			
FLASHING OR ROTARY	• 60/80/120 times/min		• 60/75/0 times/min			
FREQUENCY	• 100/120/150 times/min		• 60/75/100 times/min • 75/95/0 times/min			
(0 = steady status)	• 120/150/180 times/min					
			• 75/95/120 times/mir	1		
CONSUMPTION	• 5 joules = 10W	• 10 joules = 15W	• 5W	• 10W		
	• 15 joules = 20W	• 21 joules = 25W				
AMDIENT III IMIDITY	11- t- 050/±					

AMBIENT HUMIDITY*

• Up to 95%*

POWER SUPPLY • 12-48V DC • 115-230V AC NOMINAL (100 - 240V AC Range) • 1kV following IEC 61000-4-5

RATED IMPULSE WITHSTAND

VOLTAGE

WORKING CURRENT LED Power **12V DC 24V DC 48V DC 110V AC 220V AC** 40 mA • 5W 530 mA 260 mA 120 mA 80 mA • 10W 80 mA 1100 mA 530 mA 240 mA 160 mA

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



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WORKING CURRENT XENON	IT XENON • Energy 12V DC 24V 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	• Until 115 dB at 1m								
CABLES ENTRY	• 3 x M20, 1 x M25 + 2 x M20, 1 x 1/2" NPT + 2 x M20, 1 x 3/4" NPT + 2 x M20									
TERMINAL	• From 22 to 14 AWG - from 0.50 mm² to 2.5 mm²									
NET WEIGHT	• SB125-2: 11.90 Kg, SB125-3: 16.70 Kg, SB125-4: 20.00 Kg, SB125-5: 25.10 Kg									

 $[\]star$ = without runoff - $\star\star$ = optional (cable gland and blanking plugs can be supplied if required)

Meaning of	Meaning of lens colour usage in the international standard (IEC 60073)										
Colour	Meaning	Action	Example								
• RED	EMERGENCY	Dangerous state. Take immediate action.	Pressure/Temperature beyond the safe state - Shutdown due to the action of protective devices - Fire alarm - Equipment failure alarm								
AMBERYELLOW	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								
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								

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		Product	Certification	Combintion	Lens colour	Light type	Power	Supply	Duty label	Tag label	Lens guard	Connection	Housing	Standard		
	Ц	SB	125	4B	YRGB	X	05	DC	N	Υ	Υ	Α	RD	N		
SB = C	OMBINED PRODUCT	-												N/A		
125 126	= HAZARDOUS AR = NON-CERTIFIED													YW =	: RED (STD) : YELLOW : BLUE	
1J 1B	= SOUNDER + JUN = SOUNDER + BEA			XC										_	BLACK	
2J	= SOUNDER + BEA JUNCTION BOX													GY =	GREEN GREY	
2B	= SOUNDER + 2 BE														: ORANGE : OTHER	
2P	= SOUNDER + BEA BUTTON	CON	N + PU	JSH										A = 3 x M:		
2D	= SOUNDER + PUS JUNCTION BOX	ВН В	UTTO	N +											25 x 1.5 + 2 x M20 x 1.5 2" NPT + 2 x M20 x 1.5	_
3J	= SOUNDER + 2 BI JUNCTION BOX			+										Additional a	4" NPT + 2 x M20 x 1.5 daptors can be supplied as sking plugs and cable glands,	
3B 3P	= SOUNDER + 3 BI = SOUNDER + 2 BI			+										see below.		
	PUSH BUTTON														: YES : NO	
3D	= SOUNDER + BEA BUTTON + JUNC													_	YES	
4J	= SOUNDER + 3 BI														: NO	
4.0	JUNCTION BOX	- 4 0	0.010											Y =	: YES (SEE LIST)	
4B 4P	= SOUNDER + 4 BI = SOUNDER + 3 BI			+										N =	: NO	
	PUSH BUTTON														: 12 - 48V DC	
4D	= SOUNDER + 2 BI PUSH BUTTON +		- SNC	-											: 100 - 240V AC	
	JUNCTION BOX														ON 5J / LED 5W ON 10J / LED 10W	
R •	= RED													15 = XENC	•	
Α •	= AMBER													21 = XENO 99 = MIXE		
B G	= BLUE = GREEN															
Y	= YELLOW													X = XENO L = LED	VIN .	
сО	= CLEAR													M = MIXE	D	

CONDUIT ACCESSORIES								
M20 316L St. St Exd conduit plug	SPARE3060009							
M25 St. St. conduit adaptor	SPARE3060105							
½" NPT St. St. conduit adaptor	SPARE3060108							
3/4" NPT St. St. conduit adaptor	SPARE3060107							
St. St Exd cable gland 7-12mm	SPARE3060108							
St. St Exd cable gland 10-16mm	SPARE3060109							

CONDUIT ACCESSORIES							
M20 NPB Exd conduit plug	SPARE3060008						
M25 NPB conduit adaptor	SPARE3060003						
1/2" NPT NPB conduit adaptor	SPARE3060001						
3/4" NPT NPB conduit adaptor	SPARE3060002						
NPB Exd cable gland 7-12mm	SPARE3060019						
NPB Exd cable gland 10-16mm	SPARE3060018						