



SB150-4-P

Audible & Visual Signals GRP COMBINATION UNITS WITH ACTIVATION CONTROL

Explosion Proof Sounder/Beacon > GRP SB150-2, 3 & 4 Series

Product overview

The SB150-2, 3 & 4 combined sounder beacon range has been approved for use in potentially explosive atmospheres and very harsh environmental conditions.

Typical applications are Oil and Gas, On-shore and Offshore, Chemical, Petrochemical, Refineries & Marine locations etc.

The unit incorporates a three stage alarm option with 60 tones to choose from.

The units offer a combined audible & visual warning signal with the option of either a junction box, allowing extra space for ease of installation & final connections. This is particularly helpful if the unit is to be installed into a fire or telecom system where additional cabling is required to monitor external devices or a push button unit for manual activation.

The units are mounted on a heavy duty 316 stainless steel, pre-drilled, mounting plate & the units are pre-wired as standard, so that on the basic model a single input operates both units simultaneously.

Features/Certifications

- Approved by ATEX, IECEx
- CQST (Available on request only)
- ATEX: II 2G Exd IIC T4 - T6 (incorporating IIA & IIB)
- Zones 1, 2, 21 & 22
- Conforms to EN (IEC) 60079-0
EN (IEC) 60079-1 and EN54
- Dustproof & Weatherproof

SB150-2, 3 & 4 Series > Ordering Information

	Combination Type	Combined With (Optional)	Lens Colour	Beacon Type	Power (Xenon)	Power (LED)	Voltage	Duty Label	Tag Label	Lens Guard	Cable Entry	Finish Colour	Telephone Initiated	
SB150 + Follow the chart (right) to generate your part code.	2 = 1xS, 1xB	J = Junction Box	A = Amber	X = Xenon	02 = 2J	05 = 5W	DC 12 ~ 48v	Y = Yes	Y = Yes	Y = Yes	A = M20	RD = Red	Y = Yes	
	3 = 1xS, 2xB		R = Red		10 = 10J							YW = Yellow		
	4 = 1xS, 3xB		B = Blue		15 = 15J							BU = Blue		
			P = Push Button	G = Green	L = LED	20 = 20J	10 = 10W	AC 100-240v	N = No	N = No	N = No	BL = Black	N = No	
		C = Clear		OR = Other										

Note: S= Sounder, B= Beacon

MODEL CONFIGURATOR (By using the table above, complete this box sequence to select your required junction box)

SB150													
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Note: All customers orders will be confirmed in writing. Care should be taken that the correct code has been ordered as be-spoke manufactured products cannot be returned for exchange or credit later.

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General Information

EX CODE:	Ex d IIC T4~ T6 Gb, Ex tb IIIC T135°C~T85°C
CERTIFICATION:	ATEX (Nemko 14 1010X), IECEx (NEM 14.0006X) CQST (Available on request only)
TYPE:	Xenon or LED Audible and Visual Signal Warning Device
SOUNDER:	3 Stage alarm with 60 Selectable tones
POWER RATING:	5-20 Watts Adjustable
SOUND OUTPUT:	Up to 115 dB at 1 metre (+/- 3 dB) *

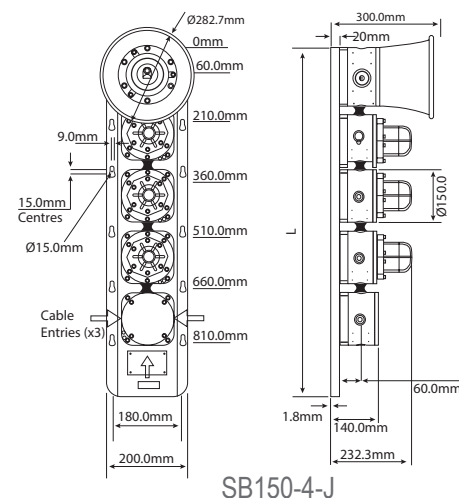
Xenon Working Status			Xenon - Flashing		
Flash Rate			Selectable from 60-180 Flashes per Minute		
Power Rating	2.5 J (4W) Max	5 J (10W) Max	10 J (15W) Max	15 J (20W) Max	20 J (25W) Max
Effective Candela	67	109	293	395	424
LED Working Status		LED - Flashing / Rotating / Static			
Flash Rate		Selectable from 60-120 Flashes per Minute			
Rotation Rate		Selectable from 60-120 Revolutions per Minute			
Static Mode		Permanently ON (ie Steady)			
Power Rating	5 W		10 W		
Effective Candela	128		312		

MULTIPLYING FACTOR FOR COLOURED LENSES:

Amber x 0.51, Red x 0.15, Blue x 0.12, Green x 0.49, Clear x 1

Mechanical Specifications

MATERIAL:	Enclosure: GRP (Glass Reinforced Plastic) with 316 Stainless Steel Mounting Bracket Lens: Tempered Glass
LENS COLOURS:	Amber, Red, Blue, Green, Clear or Other (specify)
ENCLOSURE COLOUR:	Red (RAL3001), Yellow (RAL1003) Blue (RAL5005), Black (RAL9004)
AMBIENT TEMPERATURE:	-40 to +70
HUMIDITY:	≤ 95% RH
WEIGHT:	SB150-2: 10 Kg / 22 lb, SB150-3: 14.5 Kg / 32 lb SB150-4: 19 Kg / 42 lb
DIMENSIONS:	See outline drawings and table for dimensions.
INGRESS PROTECTION:	IP 66
Electrical Specifications	
POWER SUPPLY:	≤48v Dc or 100-240v Ac (50/60 Hz), Beacon: ≤25W, Sounder: ≤20W
TERMINATION:	Accepts upto ≤ 2.5mm ² incorporating rising clamp protectors
CABLE ENTRY:	2 x M20 or M25. For 1/2" or 3/4"NPT requirements, male female adapter glands are available. Contact sales dept for further part codes.
CURRENT CONSUMPTION:	Sounder 250 mA - 1500 mA (Adjustable by tone selection)



SB150-4-J

Combination	No Key Slots	'L'
SB150-2	6	450.0
SB150-3 (2J or P)	8	619.0
SB150-4 (3J or P)	10	788.0
SB150-5 (4J or P)	12	957.0

Accessories

50023:	Cage Guard (Stainless Steel)
50200:	M20 E1EX Nickel Plated Brass Gland (Multi Armour Cone) Atex Cat 2 &3, EExde IIC 2 GD Cable ID 11 - 15.5mm OD 14.5 - 21mm Gland for Multi Armoured Cable *
50201:	M20 A2EX Nickel Plated Brass Gland Atex Cat 2 & 3, EExde IIC 2 GD Cable OD 11 - 15.5mm Gland for Unarmoured Cable *
50202:	M20 E1EX-QS Nickel Plated Brass Gland (Ex d IIC, Ex e IIC, Ex nR IIC, Ex tb IIIC) Cable OD 14.5 - 20.5mm Barrier Gland for Steel and Aluminium Armoured Cable *
50203:	M20 A2EX Quick Stop Nickel Plated Brass Gland (Ex d IIC, Ex nR IIC, Ex tb IIC) Cable OD 9 - 15mm Barrier Gland for Unarmoured Cable *
50204:	M20 Nickel Plated Brass Stopping Plug Atex EExde I/IIC Standard M20 Blanking Plug
50221:	Epoxy Minute Adhesive 24m/l tube One tube sufficient for five barrier glands

* 25mm Thread length for GRP products
Note: M25 options available for the above

SB150-2, 3, & 4 Series > Working Current

Power Consumption: Sounder: 5-20W & LED: 5W

Xenon	2.5 Joule	5 Joule	10 Joule	15 Joule	20 Joule
	4 W (Max)	10 W (Max)	15 W (Max)	20 W (Max)	25 W (Max)

Working Current: Sounder: 250 mA - 1500 mA & LED: 220 mA (Max)

Xenon	2.5 Joule	5 Joule	10 Joule	15 Joule	20 Joule
	160 mA	320 mA	650 mA	1A (Max)	1.4A (Max)

LED

POWER	12v Dc	24v Dc	48v Dc	110v Ac	220v Ac
5 W	530 mA	260 mA	120 mA	80 mA	40 mA
10 W	1100 mA	530 mA	240 mA	160 mA	80 mA