## **DATASHEET - SL 150 SERIES COMBINED PRODUCTS**

#### AUDIBLE & VISUAL SIGNALLING EQUIPMENT





- zone 1 & 2
- zone 21 & 22

#### **DESCRIPTION** - SL 150 series combined

This combined is certified for use in Atex/explosive atmosphere, zone 1 & 2 for gas and zone 21 & 22 for dust. It is dedicated for Oil & Gas,chemical, petrochemical, pharmacy industries, marine and Offshore applications. It's designed for corrosive environnements and hazardous area.

The set is provided with 5 beacons maximum.

The beacon can be delivered with two different light sources;

LED with steady, rotary, fixed or blinking led of different powers.

Flashing with XENON tube of different powers.

Four flashing frequencies are selectable.

Optional it is possible to control the beacon via a telephone line. On demand one of the beacons can be replaced by a push button or a junction box. The set is assembled on a stainless steel 316L frame.

Housing is moulded in Glass-Reinforced Polyester (GRP), dyed in the mass and protected by an UV resistant paint.

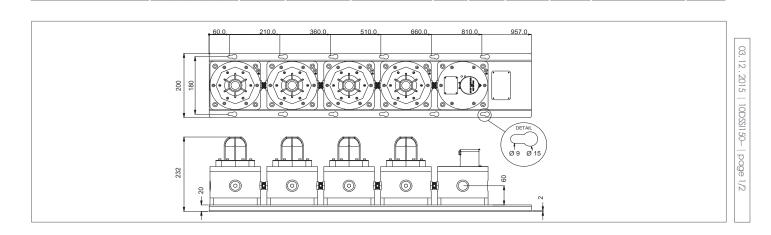
The lens is made with borosilicate glass 3.3.

A complete range of accessories is available to customize a products. (see accessories annex)

### PRODUCT CODE CONFIGURATOR

COMBINATION	TYPE	LENS COLOUR	TYPE	POWER	VOLTAGE	DUTY LABEL	TAG LABEL	LENS GUARD	CABLE ENTRY	FINISH COLOUR	TEL. INIT.
	ACONS ACONS	R = RED		05 LED: 5W XENON: 5J	<b>DC</b> 12 48V DC		Y = YES	Y = YES	<b>A</b> = M20	RD = RED	Y = YES
B3J - 2 BEAC	CONS &		<b>X</b> =			Y =					
<b>B3P</b> - 2 BEAC 1 <b>P</b> USH E	CONS &	<b>A</b> = AMBER	XENON	N 10 LED: 10W XENON: 10J	<b>AC1</b> 1248V AC	YES			B =	YW = YELLOW	
<b>C40</b> - 4 BEA	ACONS								M25		
C4J - 3 BEAC 1 JUNCTIO	CONS & ON BOX	■ B = BLUE		15 XENON: 15J	AC 100 240V AC	<b>N</b> = NO	<b>N</b> = NO	<b>N</b> = NO	С	■ BU = BLUE	<b>N</b> = NO
C4P - 3 BEAC 1 PUSH E	CONS & BUTTON	■ <b>G</b> = GREEN	L =						= 1/2"		
<b>D50</b> - 5 BE/	ACONS								NPT		
D5J - 4 BEAC 1 JUNCTIO	CONS & ON BOX		LED	21 XENON: 21J	OR (OTHER REQUEST)				D =	■ BL = BLACK	
<b>D5P</b> - 4 BEAC 1 <b>P</b> USH E	CONS & BUTTON	C = CLEAR							3/4" NPT		

#### ADD THE CODES RELATED TO THE FEATURES REQUIRED TO SL 150-:



# **DATASHEET - SL 150 SERIES COMBINED PRODUCTS**

### **AUDIBLE & VISUAL SIGNALLING EQUIPMENT**

TE	$\sim$ $^{\square}$	NH	$C\Delta$	 ۱ A ۱	ГΛ

• ENCLOSURE : Glass Reinforced Polyester • LENS: Tempered borosilicate glass 3.3 • FRAME: Stainless Steel 316L						
• RED : RAL 3001 - YELLOW** : RAL1018 - BLUE** : RAL5005 - BLACK** : RAL9005						
• IP66/67						
• T6 = - 40°C ~ + 55°C , T5 = - 40°C ~ + 60°C, T4 = - 40°C ~ + 70°C						
• Nemko 13 ATEX 1566X, IECEX NEM 13.0036X						
* (Ex)    2 GD   Ex d   C T4 ~ T6 Gb, Ex tb    C T135°C ~T85°C,						
• EN / IEC 6	0079-0, EN / IE	C 60079-1, EN	/ IEC 60079-31	,		
• Gas zone	: 1 & 2 <b>Dust z</b>	one: 21 & 22				
• <b>Red:</b> 0.15	• Amber:	0.51 • <b>E</b>	Blue: 0.12	• Green: 0.49	• Clear: 1	
	Flash tube (X	ENON)		LEC		
		•		<b>V</b> = 128 Cd	• 10W = 312 Cd	
		-				
• Emissions are reduced to 70% after 8 million flashes • >50 000 hours without luminosity decrease						
<ul> <li>60/80/120 times/min</li> <li>100/120/150 times/min</li> <li>120/150/180 times/min</li> <li>60/75/100 times/min</li> <li>75/95/0 times/min</li> <li>75/95/120 times/min</li> </ul>						
• 5 Joules = 10W • 10 Joules = 15W • 15 Joules = 20W • 21 Joules = 25W					• 10W	
• until 95%*						
• 12-48V DO	• 1	2-48V AC (50,	/60hz)	• 100-240V A	C (50/60hz)	
• 1kV follov	ving IEC 61000-	4-5				
• 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	
<ul> <li>Energy</li> </ul>	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	
					110 mA	
				ecify)		
• From 22 to	o 14 AWG - fror	n 0.50 mm² to	2.5 mm²			
• \$L150-A:	10.2 Kg, <b>\$L150</b> -	<b>B</b> : 15 Kg, <b>SL15</b>	0-C: 20.2 Kg, \$	<b>L150-D</b> : 23.90 Kg	J	
• 25Hz <f<5< td=""><td>50Hz 40V</td><td><u<100v< td=""><td>Z = 2k Ohms</td><td></td><td></td></u<100v<></td></f<5<>	50Hz 40V	<u<100v< td=""><td>Z = 2k Ohms</td><td></td><td></td></u<100v<>	Z = 2k Ohms			
	• FRAME: St • RED : RAL • 1P66/67 • T6 = - 40°C • Nemko 13 • Ex   II 2 G • EN / IEC 6 • Gas zone • Red: 0.15 • 5 joules • 15 joules • 18 joules • 19 joules • 100/120/1 • 120/150/1 • 5 Joules • 11 Joules • 18 Joules • 18 Joules • 19 Joules • 18 Joules • 19 Joules • 18 Jo	• FRAME: Stainless Steel 31 • RED : RAL 3001 - YELLOV • IP66/67 • T6 = -40°C ~ + 55°C , T5 • Nemko 13 ATEX 1566X, IE • Ex III 2 GD Ex d IIC T4 ~ Ex tb IIIC T13 • EN / IEC 60079-0, EN / IEC • Gas zone: 1 & 2 Dust zo • Red: 0.15 • Amber:  Flash tube (X • 5 joules = 109 Cd • 15 joules = 395 cd • 5 joules = 35970 Cd • 15 joules = 83345 Cd • Emissions are reduced to 700 • 60/80/120 times/min • 100/120/150 times/min • 120/150/180 times/min • 120/150/180 times/min • 120/150/180 times/min • 120/150/180 times/min • 5 Joules = 20W • 20 • until 95%* • 12-48V DC • 5W 530 mA • 10W 1100 mA • Energy 12V DC • 5W 530 mA • 10J 850 mA • 10J 850 mA • 10J 850 mA • 15J 1200 mA • 2 x M20, M25**, 1/2" NPT • From 22 to 14 AWG - from • \$1150-A: 10.2 Kg, \$1150-A: 10	• FRAME: Stainless Steel 316L • RED : RAL 3001 - YELLOW** : RAL1018 • 1P66/67 • T6 = - 40°C ~ + 55°C , T5 = - 40°C ~ + 60 • Nemko 13 ATEX 1566X, IECEX NEM 13.0 • Ex to IIIC T14 ~ T6 Gb, Ex to IIIC T135°C ~ T85°C, • EN / IEC 60079-0, EN / IEC 60079-1, EN • Gas zone: 1 & 2 Dust zone: 21 & 22 • Red: 0.15 • Amber: 0.51 • E  Flash tube (XENON) • 5 joules = 109 Cd • 10 joules = 2 • 15 joules = 395 cd • 21 joules = 4 • 5 joules = 35970 Cd • 10 joules = 60 • 15 joules = 83345 Cd • 21 joules = 93 • Emissions are reduced to 70% after 8 million • 60/80/120 times/min • 100/120/150 times/min • 120/150/180 times/min • 120/150/180 times/min • 120/150/180 times/min • 12-48V DC • 12-48V AC (50) • 1kV following IEC 61000-4-5 • Power 12V DC 24V DC • 5W 530 mA 260 mA • 10W 1100 mA 530 mA • Energy 12V DC 24V DC • 5J 460 mA 280 mA • 10J 850 mA 490 mA • 15J 1200 mA 700 mA • 21J NA 960 mA • 2 x M20, M25**, 1/2" NPT**, 3/4" NPT** • From 22 to 14 AWG - from 0.50 mm² to • \$1150-A: 10.2 Kg, \$1150-B: 15 Kg, \$115	FRAME: Stainless Steel 316L  • RED: RAL 3001 - YELLOW**: RAL1018 - BLUE**: RAL • IP66/67  • T6 = -40°C ~ +55°C, T5 = -40°C ~ +60°C, T4 = -40°C • Nemko 13 ATEX 1566X, IECEX NEM 13.0036X • Ex billic T135°C ~ T85°C, • EN / IEC 60079-0, EN / IEC 60079-1, EN / IEC 60079-31 • Gas zone: 1 & 2 Dust zone: 21 & 22 • Red: 0.15 • Amber: 0.51 • Blue: 0.12  Flash tube (XENON) • 5 joules = 109 Cd • 10 joules = 293 Cd • 15 joules = 395 cd • 21 joules = 424 Cd • 15 joules = 35970 Cd • 10 joules = 66804 Cd • 15 joules = 83345 Cd • 21 joules = 95824 Cd • Emissions are reduced to 70% after 8 million flashes • >50 • 60/80/120 times/min • 60/ • 120/150/180 times/min • 60/ • 120/150/180 times/min • 50/ • 15 Joules = 10W • 10 Joules = 15W • 60/ • 15 Joules = 20W • 21 Joules = 25W • until 95%* • 12-48V DC • 12-48V AC (50/60hz) • 1kV following IEC 61000-4-5 • Power 12V DC 24V DC 48V DC • 5W 530 mA 260 mA 120 mA • 10W 1100 mA 530 mA 240 mA • Energy 12V DC 24V DC 48V DC • 5J 460 mA 280 mA 140 mA • 10J 850 mA 490 mA 250 mA • 15J 1200 mA 700 mA 360 mA • 21J NA 960 mA 480 mA • 5L150-A: 10.2 Kg, SL150-B: 15 Kg, SL150-C: 20.2 Kg, S	• FRAME: Stainless Steel 316L • RED : RAL 3001 - YELLOW** : RAL1018 - BLUE** : RAL5005 - BLACK** • IP66/67 • T6 = - 40°C ~ + 55°C , T5 = - 40°C ~ + 60°C, T4 = - 40°C ~ + 70°C • Nemko 13 ATEX 1566X, IECEX NEM 13.0036X • Ex tb IIIC T135°C ~ T85°C, • EN / IEC 60079-0. EN / IEC 60079-1, EN / IEC 60079-31, • Gas zone: 1 & 2 Dust zone: 21 & 22 • Red: 0.15 • Amber: 0.51 • Blue: 0.12 • Green: 0.49  Flash tube (XENON) • 5 joules = 109 Cd • 10 joules = 293 Cd • 15 joules = 35970 Cd • 21 joules = 424 Cd • 15 joules = 35970 Cd • 10 joules = 66804 Cd • 15 joules = 3345 Cd • 21 joules = 95824 Cd • Emissions are reduced to 70% after 8 million flashes • >50 000 hours without • 60/80/120 times/min • 100/120/150 times/min • 100/120/150 times/min • 120/150/180 times/min • 15 Joules = 20W • 21 Joules = 15W • 15 Joules = 20W • 21 Joules = 25W • until 95%* • 12-48V DC • 12-48V AC (50/60hz) • 100-240V AC • 5W • 530 mA 260 mA 120 mA 80 mA 10W 1100 mA 530 mA 240 mA 160 mA 10W 1100 mA 530 mA 240 mA 160 mA 10D AC • 5J 460 mA 280 mA 140 mA 60 mA 10D 850 mA 490 mA 250 mA 100 mA 15D 120 mA 80 mA 140 mA 60 mA 15D 120 mA 80 mA 15D 120 mA 80 mA 160 mA 15D 120 mA 80 mA 160 mA 15D 120 mA 80 mA 160 mA 15D 1200 mA 700 mA 360 mA 140 mA 60 mA 15D 120 mA 80 mA 160 mA 15D 1200 mA 700 mA 360 mA 140 mA 60 mA 15D 120 mA 80 mA 180 mA 15D 120 mA 80 mA 180 mA 180 mA 120 mA 80 mA 180 mA 15D 120 mA 80 mA 180 mA 180 mA 15D 1200 mA 700 mA 360 mA 140 mA 180 mA 180 mA 15D 120 mA 100 mA 15D 1200 mA 700 mA 360 mA 140 mA 80 mA 180 mA 15D 120 mA 15D 120 mA 180	

MEANING OF LENS COLOR USAGE IN THE INTERNATIONAL STANDARD (IEC 60073)							
COLOR	MEANING	ACTION	EXAMPLE				
■ RED	EMERGENT	Dangerous state Take immediat action	Pressure/Temperature beyond the safe state - Shutdown due to the action of protective devices - Fire alarm - Equipment failure alarm				
<b>AMBER</b>	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				



03.12.2015 | 910DSSL150- | page 2/2