

SL 150 Series combined products

SIL2 compliant as IEC 61508 & IEC 61511



The flameproof SL150 status light combination is ATEX / IECEx certified for use in potentially explosive atmospheres and provides clear visual 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. SIL2 compliant as IEC 61508 & IEC 61511.

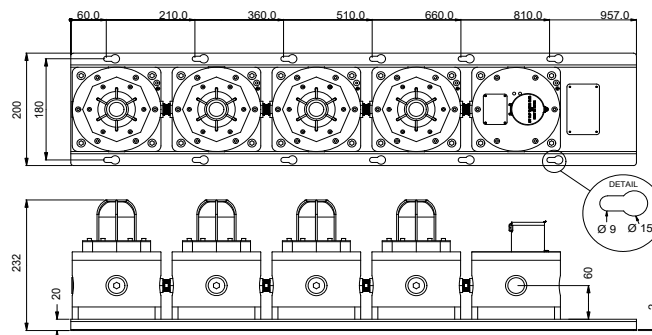
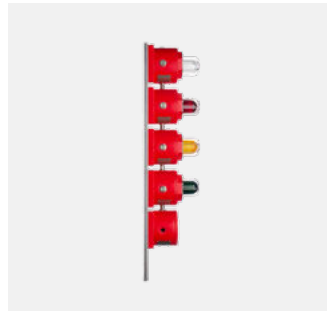
Application: Oil and gas, chemical, petrochemical, pharmaceutical, marine and offshore applications.

Key features: The explosion proof set is provided with up to 5 status lights. Robust and highly reliable, the Ex status light array is designed for corrosive environments and hazardous areas. The housing is moulded in Glass-Reinforced Polyester (GRP), and 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 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 status lights 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: Glass reinforced plastic (GRP)		• Lens: Tempered borosilicate glass 3.3		• Frames: Stainless Steel 316L	
COLOUR	• RED : RAL3001/3028 • BLACK : RAL9005 • ORANGE : RAL2010		• YELLOW : RAL1018 • GREEN : RAL6032		• BLUE : RAL5005 • GREY : RAL7038	
INGRESS PROTECTION	• IP66/67					
AMBIENT TEMPERATURE FOR OPERATION	• T6 = - 40°C ~ + 55°C , T5 = - 40°C ~ + 60°C, T4 = - 40°C ~ + 70°C					
CERTIFICATION	• Nemko 13 ATEX 1566X, IECEX NEM 13.0036X					
EX CODE	 • 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					
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 • 15 joules = 395 Cd		• 10 joules = 293 Cd • 21 joules = 424 Cd		• 5 W = 128 Cd • 10W = 312 Cd	
PEAK LIGHT INTENSITY	• 5 joules = 35970 Cd • 15 joules = 83345 Cd		• 10 joules = 66804 Cd • 21 joules = 95824 Cd			
TIME LIFE	• 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 • 115-230V AC NOMINAL (100 - 240V AC Range)					
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
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	• SL150-A: 10.2 Kg, SL150-B: 15 Kg, SL150-C: 20.2 Kg, SL150-D: 23.90 Kg					

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

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Product	Certification	Combination	Lens colour	Light type	Power	Supply	Duty label	Tag label	Lens guard	Connection	Housing	Standard
SL	150	C40	RYGB	X	05	DC	N	Y	Y	A	RD	N



SL = COMBINED PRODUCT

150 = HAZARDOUS AREA

151 = NON-CERTIFIED

A20 = 2 BEACONS

A2P = 1 BEACON + PUSH BUTTON

B30 = 3 BEACONS

A2J = 1 BEACON + JUNCTION BOX

B3J = 2 BEACONS + JUNCTION BOX

B3P = 2 BEACONS + PUSH BUTTON

BPJ = 1 BEACON + PUSH BUTTON
+ JUNCTION BOX

C40 = 4 BEACONS

C4J = 3 BEACONS + JUNCTION BOX

C4P = 3 BEACONS + PUSH BUTTON

CPJ = 2 BEACONS + PUSH BUTTON
+ JUNCTION BOX

D5J = 4 BEACONS + JUNCTION BOX

D5P = 4 BEACONS + PUSH BUTTON

DPJ = 3 BEACONS + PUSH BUTTON
+ JUNCTION BOX

R ● = RED

A ● = AMBER

B ● = BLUE

G ● = GREEN

Y ● = YELLOW

C ○ = CLEAR

N/A

RD ● = RED (STD)

YW ● = YELLOW

BU ● = BLUE

BL ● = BLACK

GN ● = GREEN

GY ● = GREY

OJ ● = ORANGE

OR ○ = OTHER

A = 3 x M20 x 1.5

B = 1 x M25 x 1.5 + 2 x M20 x 1.5

C = 1 x 1/2" NPT + 2 x M20 x 1.5

D = 1 x 3/4" NPT + 2 x M20 x 1.5

Additional adaptors can be supplied as
well as blanking plugs and cable glands,
see below.

Y = YES

N = NO

Y = YES

N = NO

Y = YES (SEE LIST)

N = NO

DC = 12 - 48V DC

AC = 100 - 240V AC

05 = XENON 5J / LED 5W

10 = XENON 10J / LED 10W

15 = XENON 15J

21 = XENON 21J

99 = MIXED

X = XENON

L = XENON

M = MIXED

CONDUIT ACCESSORIES

M20 316L St. St Exd conduit plug	SPARE3060009
M25 St. St. conduit adaptor	SPARE3060105
1/2" 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

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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