Ex-tech® SIGNALLING

Datasheet > Audible & visual signalling equipment

SL 150 Series combined products

SIL2 compliant as IEC 61508 & IEC 61511



The flameproof SL150 status light combination is ATEX / IECEx / UKEX certified for use in potentially explosive atmospheres and provides clear visual status indication (can be labelled accordingly). It is constructed from GRP.

ATEX / IECEx / UKEX 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 / UKEX status light package. These include pipe mounting brackets, sunshades, tag and duty labels and other accessories.

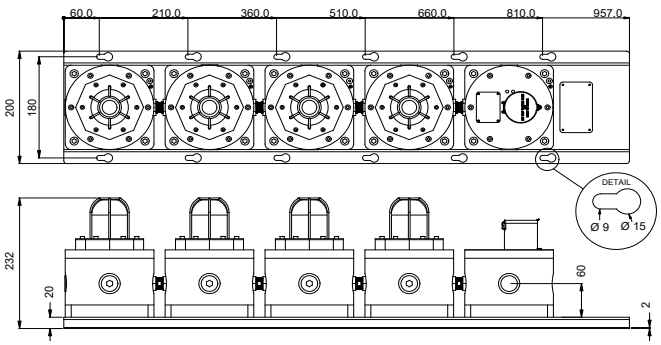
Ex Made in UK











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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	• **5J** = + 45/60/70°C • **5W** = + 50/60/70°C	• **10/15/21J** = + –/50/70°C • **10W** = + 45/60/70°C	(T6 / T5 / T4; – = not certified) (Ta min - 40°C)			
CERTIFICATION	• **ExVeritas** 25ATEX2275X, IECEx EXV 25.0071X, 26UKEX2394X					
EX CODE	• II 2 GD Ex db IIC T6 / T5 / T4 Gb • Ex tb IIIC T85 / T100 / T135°C Db					
STANDARD	• EN IEC 60079-0:2018, EN 60079-1:2014, EN IEC 60079-31:2024					
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	Combintion	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

X = XENON
L = XENON
M = MIXED

05 = XENON 5J / LED 5W
10 = XENON 10J / LED 10W
15 = XENON 15J
21 = XENON 21J
99 = MIXED

DC = 12 - 48V DC
AC = 100 - 240V AC

Y = YES (SEE LIST)
N = NO

Y = YES
N = NO

Y = YES
N = NO

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.

RD = RED (STD)
YW = YELLOW
BU = BLUE
BL = BLACK
GN = GREEN
GY = GREY
OJ = ORANGE
OR = OTHER

N/A

CONDUIT ACCESSORIES	
M20 316L St. St Exd conduit plug	SPARE3060009
M25 St. St. conduit adaptor	SPARE3060105
½" NPT St. St. conduit adaptor	SPARE3060108
¾" 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
½" NPT NPB conduit adaptor	SPARE3060001
¾" 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	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
● 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

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