



The flameproof KSL150 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.

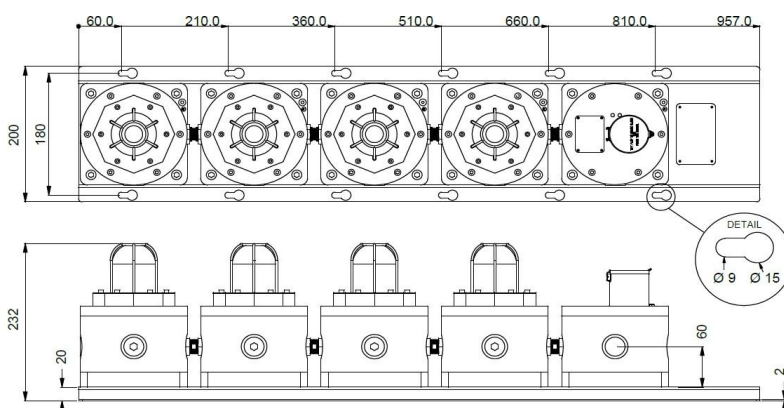
Application: Oil and gas, chemical, petrochemical, pharmaceutical, marine and offshore applications.

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.

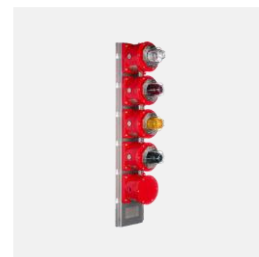
A range of accessories is available to customise this ATEX / IECEx status light package. These include pipe mounting brackets, sunshades, tag and duty labels and other accessories.



MATERIAL	• Enclosure: 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 ATEX, IECEX					
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					
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		• 100-240V AC (50/60hz)			
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 2.5mm2					
NET WEIGHT	• KSL150-A: 10.2 Kg, KSL150-B: 15 Kg, KSL150-C: 20.2 Kg, KSL150-D: 23.90 Kg					

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

Product	Certification	Combination	Lens colour	Light type	Power	Supply	Duty label	Tag label	Lens guard	Connection	Housing	Standard
KSL 150 C40 RYGB X 05 DC N Y Y A RD N												
KSL = COMBINED PRODUCT												N/A
150	= HAZARDOUS AREA											RD ● = RED (STD)
151	= NON-CERTIFIED											YW ● = YELLOW
A20	= 2 BEACONS											BU ● = BLUE
A2J	= 1 BEACON + JUNCTION BOX											BL ● = BLACK
A2P	= 1 BEACON + PUSH BUTTON											GN ● = GREEN
B30	= 3 BEACONS											GY ● = GREY
A2J	= 1 BEACON + JUNCTION BOX											OJ ● = ORANGE
B3J	= 2 BEACONS + JUNCTION BOX											OR ○ = OTHER
B3P	= 2 BEACONS + PUSH BUTTON											A = 3 x M20 x 1.5
BPJ	= 1 BEACON + PUSH BUTTON + JUNCTION BOX											B = 1 x M25 x 1.5 + 2 x M20 x 1.5
C40	= 4 BEACONS											C = 1 x 1/2" NPT + 2 x M20 x 1.5
C4J	= 3 BEACONS + JUNCTION BOX											D = 1 x 3/4" NPT + 2 x M20 x 1.5
C4P	= 3 BEACONS + PUSH BUTTON											Additional adaptors can be supplied as well as blanking plugs and cable glands, see below.
CPJ	= 2 BEACONS + PUSH BUTTON + JUNCTION BOX											Y = YES
D5J	= 4 BEACONS + JUNCTION BOX											N = NO
D5P	= 4 BEACONS + PUSH BUTTON											Y = YES
DPJ	= 3 BEACONS + PUSH BUTTON + JUNCTION BOX											N = NO
R ●	= RED											Y = YES (SEE LIST)
A ●	= AMBER											N = NO
B ●	= BLUE											AC = 12 - 48V DC
G ●	= GREEN											DC = 100 - 240V AC
Y ●	= YELLOW											05 = XENON 5J / LED 5W
C ○	= CLEAR											10 = XENON 10J / LED 10W
												15 = XENON 15J
												21 = XENON 21J
												99 = MIXED
												X = XENON
												L = XENON
												M = MIXED



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

