

LSI01Ex (ATLAS)



Explosion-proof LED luminaire for general lighting in oil and gas facilities, oil refining, gas, chemical, cement, woodworking, food, and other industries, in compliance with explosion protection marking. Suitable for hazardous areas classified as Zones 1 and 2, and fire-hazardous areas of Classes P-I and P-II. Can also be used in Zones 21 and 22.

The luminaire is designed for direct mounting on building structures such as walls, ceilings, foundations, floors, columns, or trusses

The luminaire is designed for general lighting applications in:

- Oil industry
- Oil refining
- Gas industry
- Chemical industry
- Cement production
- Woodworking
- Food processing
- And other industrial sectors

Housing: Made of aluminum alloy.

Cover: Transparent borosilicate glass.

Protective Mesh: Steel wire.

Adjustable Bracket: Rolled steel with a minimum thickness of 3 mm.

Light Source: Luminus LEDs by CREE (USA).

Lens: Manufactured by LEDiL (Finland).

Power Supply: Provided by MEAN WELL (Taiwan).

Features:

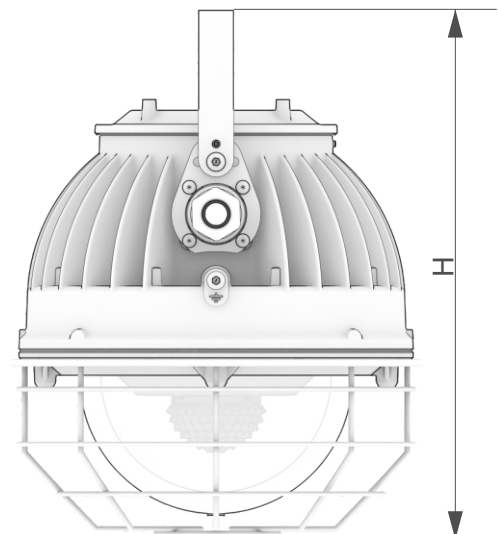
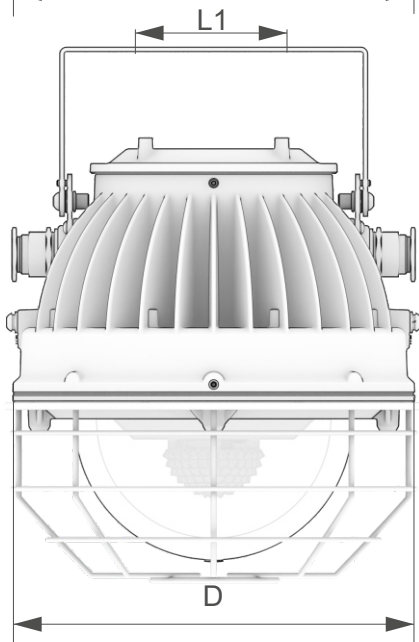
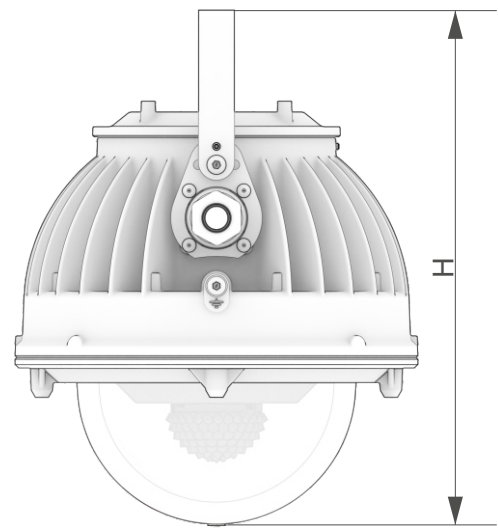
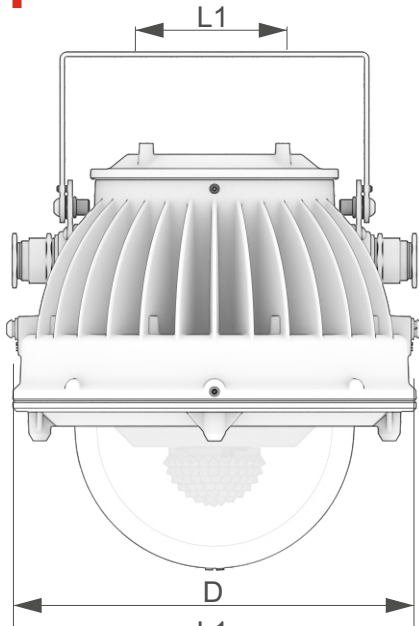
- Operating Voltage Range: 198–264 V AC and 176–275 V DC.
- Housing Impact Resistance: IK10 (20 J).
- Impact Resistance of Light-Transmitting Element: IK08 (5 J).
- Emergency Mode: 30 W versions are equipped with an Emergency Power Supply (EPS) unit with a rechargeable battery, providing operation in emergency mode for at least 3 hours.
- DALI Functionality: Compatible with an electronic power supply featuring DALI (Digital Addressable Lighting Interface) for automatic or semi-automatic brightness adjustment and control of individual or grouped luminaires.
- Connection Options:
 - Individual Connection: One cable gland M20x1.5-6g.
 - Continuous Line Connection ("Transit"): Two cable glands M20x1.5-6g.
- Estimated Service Life: 100,000 operating hours.
- Components Quality: Electronic components and LEDs sourced exclusively from world-leading manufacturers.
- Protection Level: High degree of dust and moisture protection, fireproof, and weatherproof.

Model	LSI01Ex-25-ABC	LSI01Ex-30-ABC	LSI01Ex-35-ABC	LSI01Ex-40-ABC	LSI01Ex-50-ABC
Operating Voltage (V)	230				
Power Factor (PFC)	> 0,95				
Color rendering index (CRI)	≥ 80				
Operating Temperature (°C)	from 0 to +40		from -40 to +50		from -40 to +40
Correlated Color Temperature (CCT, K)	4000				
Ingress Protection (IP)	IP 66				
Resistance to body impact	IR10/20 J				
Impact Resistance (IK)	IK08/5 J				
Mechanical Stability	M1				
Lamp power, W	25	30	35	40	50
Rated Power in emergency mode (W)	8	8	-	-	-
Luminous Flux (lm)	3000	3600	4200	4800	6000
Luminous Flux in emergency mode (lm)	1040	1040	-	-	-
Luminous Efficacy (lm/W)	120				
Beam Angles (°)	30, 50,120, 140				
Fire Hazard Zone Class	P-I, P-II				
Electrical Protection Class	I				
Explosion Protection Marking	<div><div><div>Ex</div></div><div>II 2G Ex db op is IIC T6 Gb II 2D Ex tb op is IIIC T80°C Db</div></div>				
Weight (kg)	6,5	6,5	6,5	6,5	6,5
Dimensions (LxWxH, mm)	200x280	200x280	200x280	200x280	200x280
Mounting Length (L1, mm)	90	90	90	90	90

Ordering Example **LSI01Ex-XX-ABC (ATLAS)** Model Code Breakdown

XX - Power:	A - Beam Angles	B - Method of electrical connection:	C - Options:
25 W 30 W 46 W 40 W 50 W	0-140° 1-120° 2-30° 3-50°	1 - Individually, unarmored cable 2 - Transit, unarmored cable 3 - Individually, unarmored cable in a metal conduit (corrugated) 4 - Transit, unarmored cable in a metal conduit (corrugated) 5 - Individually, armored cable 6 - Transit, armored cable	0 - None 2 - Emergency power supply

Lamp Sketch



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