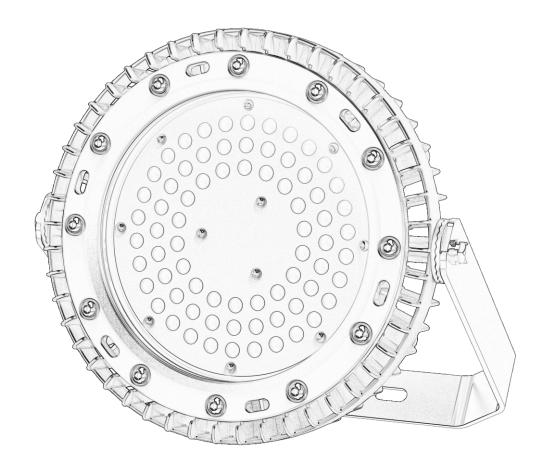
#### Important information:

These instructions contain safety information, read and follow them carefully. KHJ will not accept any responsibility for injury, damage or loss which may occur due to incorrect installation, operation or maintenance

# Operation & Maintenance Manual Ksealion Series-NV1.0



Contact

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## **Product Important Information**

Standards EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3, EN 60598-1, EN 60598-2-5, EN 62031, EN 62493, IEC 62321-4, IEC 62321-5, IEC 62321-6, IEC 62321-7-1, IEC 62321-7-2, IEC 62321-8

Certificate CE, RoHS

Ambient temp  $-40\% \le \text{Ta} \le +55\%$ Ingress Protection IP66

# 01.Introduction-Sealion Series LED Light

- This user manual covers the range of industrial Sealion Series LED normal luminaire.

  These luminaires are constructed with corrosion resistant epoxy coated aluminum alloy body and high impact resistance tempered glass
- Sealion Series LED are available from 45W to 300W, providing ideal solutions for a wide range of industrial applications.

## **02.Electrical Supplies**

Size:Ø275*157mm									
Voltage Range(AC)	100~277VAC (standard)								
Frequency Range(Hz)	50/60Hz								
Power Watts(W)	45W	60W	80W	100W					
Standard Current Range(A)	0.16-0.45	0.21~0.6	0.28~0.8	0.36~1.0					
Size:Ø330*157mm)									
			- /						

Size:Ø330*157mm)							
Voltage Range(AC)	100~277VAC (standard)						
Frequency Range(Hz)	50/60Hz						
Power Watts(W)	120W	150W					
Standard Current Range(A)	0.43~1.2 0.54~1.5						

Size:Ø415*168mm						
Voltage Range(AC)	100~277VAC (standard)					
Frequency Range(Hz)	50/60Hz					
Power Watts(W)	200W 240W 300W					
Standard Current Range(A)	0.72~2.0	0.86~2.4	1.08~3.0			

## 03.General

- These instructions should be read fully and carefully before attempting to install the luminaire. For details of servicing operations, opening etc.see section 5.
- Copies of these instructions should be held in a safe place for future reference.
   It is the responsibility of the installer to ensure that the apparatus selected is fit for it is intended purpose and that the installation, operation and maintenance of the apparatus complies with applicable regulations, standards or codes of practice.
   Installation should be carried by qualified electrician only.
- · Risk of electrostatic discharge:
- a. Avoid mounting near fast moving streams of air
- $\cdot$  Any specific installation instructions must be referred to The luminaire should be considered Class I to EN 60598 and effectively earthed.
- $\bullet$  The information in this leaflet is correct at the time of publication.
- The company reserves the right to make specifications changes as required without notice.

#### 3.1 Tools

 4 mm and 5 mm flat blade screwdriver, large cross head screwdriver and Inner hexagon counter wrench.
 Pliers, knife, wire strippers and cutter.

#### 3.2 Mounting

- Luminaire should be installed where access for maintenance is practical and in accordance with lighting design information.
   Refer to the note in 03. concerning electrostatic discharge.
- See 5.1 installation diagram for installation mode and method.

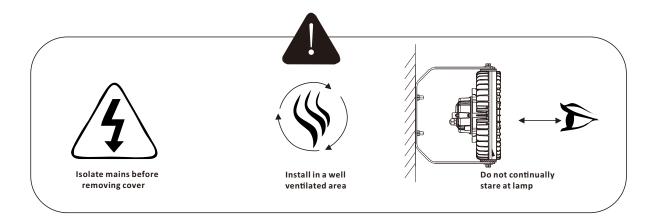
#### 3.3 Electrical Connections and Testing

- If any operation is to be done on any luminaire already connected to the electrical system, the luminaire must be isolated from the system.
- To access the mains terminals , loosen the fixing screws, remove the power cover.
- The cable connection method is detailed in 5.2.1. The maximum amount of insulation allowed beyond the throat of the terminal is 4mm².
- The normal method of insulation testing is to connect Live and Neutral together and test between this point.

  However, if this is not possible luminaire can be tested with an insulation tester that complies with IEC 364 with a maximum output current of 1mA and output voltage of 500V dc. (Units damaged by incorrect insulation testing can be detected).
- Before completing the wiring, ensure that all the connections are correctly introduced into place before reassembling the luminaire.

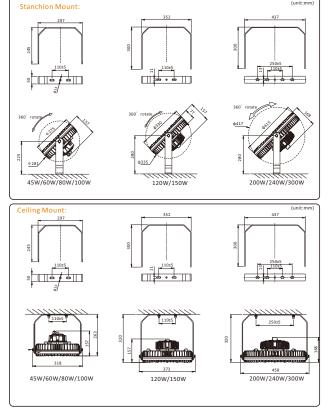
## **04.Safety Instruction**

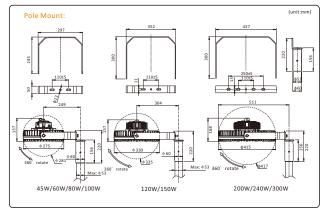
- Read this leaflet carefully before commencing to install the luminaire unit and retain it for future use.
   Installation can only be carried out by suitably qualified personnel.
- The incoming mains cable should not exceed a temperature rise of  $20^{\circ}$ C above the ambient conditions; select suitable cable.
- External fasteners must have a yield strength of at least 450N/mm<sup>2</sup>
- The luminaire must not be operated without all the individual LED covers in position, the IP66 rating must be maintained.

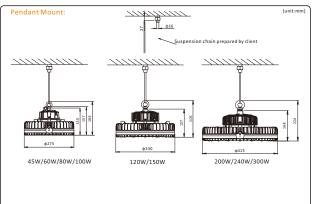


### 05.Installation Method

Based on the use of the scene and actual requirements, we have designed the following installation methods for customers to choose from (including but not limited to):







#### Remarks:

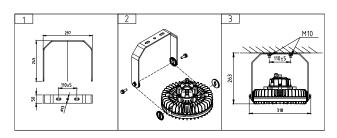
• External grounding cable cross-sectional area is not less than 4mm<sup>2</sup>.

#### 5.1 Installation decomposition

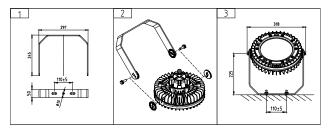
It is the responsibility of the installer to ensure that the apparatus selected is fit for it is intended purpose and that the installation, operation and maintenance of the apparatus complies with applicable regulations, standards or codes of practice.

Please refer to the following installation drawing for different installation methods.

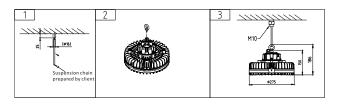
#### • 5.1.1 Ceiling mount(unit:mm)



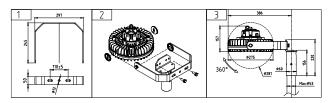
#### 5.1.2 Stanchion\Wall mount(unit:mm)



• 5.1.3 Pendant mount(unit:mm)



• 5.1.4 Pole mount(unit:mm)

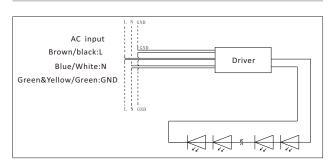


#### **5.2 Electrical Principles and Connections**

In addition to referring to the relevant contents of this manual, the qualified personnel who have obtained the corresponding certificate according to shall strictly comply with the requirements of when installing luminaire.

When installed, ensure that the lamp is effectively grounded (internal or external).

#### • 5.2.1 Electrical Principles





#### 5.3 Cascade

МСВ Туре	Rating	45W	60W	80W	100W	120W	150W	200W	240W	300W
В	16A	5	9	9	9	4	4	3	2	2
С	16A	8	14	14	14	8	8	6	4	4
According to MCB data sheet, the qty of luminaires in one Parallel connection is calculated at 230VAC										

## **06.Repairs Maintenance**

Visual tests and checks should be carried out at intervals described by the appropriate regulations, and should include the following (including but not limited to).

- · Check for mechanical damage/corrosion.
- Check connections, fixings, glands and plugs.
- · Check for undue accumulations of dust, dirt or moisture.
- Check for unauthorized modifications.

 $Periodic inspection of the \, enclosure \, seal \, should \, be \, checked \, out \, to \, ensure \, that \, the \, seal \, is \, sound.$ 

If the luminaire has been subject to abnormal conditions, for example, severe mechanical impact or chemical spillage, it must be de-energised until it has been inspected by an authorized and competent person.

## 07.Cleaning of luminaire

- The complete luminaire (without disassemble) can be cleaned with neutral water solution. After cleaning, rinse or wipe dry with clean water.
- It is forbidden to use any chemical or hydrocarbon solvent cleaner to clean the diffuser, otherwise serious damage may be caused.
- Please clean the luminaire regularly if it is used under dust environment.

# **08.Disposal of Material**

General

Disposal of the luminaire as waste should be carried out in accordance with national regulations.

Any disposal must satisfy the requirements of the WEEE directive [2012/19/EU] and therefore must not be treated as commercial waste.

The unit is mainly made from incombustible materials.

The control gear contains plastic, resin and electronic components.

All electrical components may give off noxious fumes if incinerated.

## 9. Transportation

Weatherproof measures should be taken during transportation.

It is strictly forbidden to load and unload violently, and it is strictly forbidden to drop and roll from high altitude, so as to prevent mechanical damage.

# 10.Storage

The luminaire should be stored in ventilated, non-dropping and non-liquid warehouse at the temperature of -20  $^{\circ}$ C to +40  $^{\circ}$ C and relative humidity  $\leq$ 95%RH.

The surroundings should be kept from corrosive gases which may damage metal and insulation.

## 11.Optional Parts

No.	Installation Accessories	Part No.	Picture	Material	Weight(Kg)	QTY	Remarks
1	Stanchion Bracket	SBT-SL-L-SUS316		SUS316	1.8	1	Ceiling Mount Stanchion Mount Wall Mount (200W/240W/300W)
2	Stanchion Bracket	SBT-SL-M-SUS316	9.5	SUS316	1.5	1	Ceiling Mount Stanchion Mount Wall Mount (120W/150W)
3	Stanchion Bracket	SBT-SL-S-SUS316		SUS316	1.3	1	Ceiling Mount Stanchion Mount Wall Mount (45W/60W/80W/100W)
	Loop	LO-SL-M10-SUS316	P	SUS316	0.25	1	Pendant Mount (45W/60W/80W/100W) (120W/150W/200W)
4	Loop	LO-SL-M12-SUS316	P	SUS316	0.26	1	Pendant Mount (240W/300W)
5	Pole Mount Bracket	(SBT2-F-G) +(SBT-SL-S-SUS316)		SUS316+Q235	3.56	1	Pole Mount (45W/60W/80W/100W)
6	Pole Mount Bracket	(SBT2-F-G) /(SBT-SL-M-SUS316)		Q235+SUS316	3.76	1	Pole Mount (120W/150W)
7	Pole Mount Bracket	(SBT2-F-G) +(SBT-SL-L-SUS316)		SUS316+Q235	4.06	1	Pole Mount (200W/240W/300W)
	Guard	GU-SL-L-SUS304		SUS304	0.38	1	(200W/240W/300W)
8		GU-SL-M-SUS304			0.33	1	(100W/120W/150W)
		GU-SL-S-SUS304	XIX		0.28	1	(30W/45W/60W/80W)