

LED Lighting System

Instruction Manual

Thank you for choosing the MORITEX LED Lighting System.

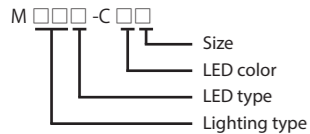
This Instruction Manual describes precautions and handling procedure for this LED lighting system to prevent troubles. Before use of the LED lighting system, be sure to read this Instruction Manual to insure safe operation. In addition, keep the Instruction Manual at hand for future reference.



LED Illumination System

MG+Wave

Model Explanation



● Lighting type

CE : Coaxial	SC : Simulated coaxial
DR : Direct ring	LR : Low angle ring
BR : Bar	LN : Line
SR : Shadow less ring	SL : Shadow less low angle ring
SQ : Shadow less low angle square	DQ : Direct square
DM : Dome	CB : Collimated backlight
DB : Direct backlight	EB : Edge light transmitting
SD : Simple dome	QF : Square flat

● LED type

L : LAMP LED C : SMD LED P : Power LED X : Extra LED

● LED color

R : Red G : Green B : Blue W : White IR : Infrared UV : Ultraviolet

● Size

Lighting type	Size	Lighting type	Size
CE	Tip outsider diameter	SC	BOX hight
DR	Inner diameter	LR	Inner diameter
BR	Light emitting (long/short)	LN	Line length
SR	Inner diameter	SL	Inner diameter
SQ	Outline	DQ	Outline
DM	Outsider diameter	CB	Light emitting (long/short)
DB	Light emitting (long/short)	EB	Light emitting (long/short)
SD	Outsider diameter	QF	Inner diameter

* Please note that the specification is subject to change without notice.

For Safe Use

This LED Lighting System is designed and manufactured with thorough consideration given to safety. However, mishandling this LED lighting system will result in an accident or injury, thus inducing a hazardous situation. To avoid that, be sure to observe precautions shown below.

• Meaning of Warning Labels

This Instruction Manual describes precautions for safe use. Thoroughly check the warning pictograms and descriptions, etc. for their meaning.

	WARNING	Cases where mishandling will result in human suffering such as death or serious injury or serious damage to equipment around this LED lighting system.
	CAUTION	Cases where mishandling may result in moderate injury, or damage to equipment around this LED lighting system.

• Meaning of Pictograms

Prohibition pictograms: Used to prohibit the act indicated with the pictogram for handling this LED lighting system.



Caution pictograms: Used to alert you for handling this LED lighting system.



Instruction pictograms: Used to force you to act according to the instruction for handling this LED lighting system.



MANDATORY

	WARNING	Cases where mishandling will result in human suffering such as death or serious injury or serious damage to equipment around this LED lighting system.
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Do not disassemble or make any modification to the LED lighting system.

Doing so will result in a malfunction or a fire, etc. If it needs to be disassembled or modified, contact your MORITEX sales representative or local authorized distributor.

Avoid exposure to water and intrusion of foreign objects.

Intrusion of water and/or foreign objects may cause failure and/or fire. In the event of such a case, switch off the power immediately and disconnect all the cables from the lighting equipment, and contact contact your MORITEX sales representative or local authorized distributor.

Do not touch the light or cable with wet hand.

Doing so will result in an electric shock.

Do not look straight at illuminated light.

Doing so will affect your eyes. If exceedingly high light intensity is used or light passes through an optical system, pay utmost attention to look at the light.

Use the relevant power supply unit and cables.

Using any power supply unit or cables other than those specified will result in a malfunction or a fire. To avoid that, be sure to use power supply units and cables dedicated to this LED Lighting System. To separately provide power supply units or cables, contact your MORITEX sales representative or local authorized distributor.

	CAUTION	Cases where mishandling may result in moderate injury, or damage to equipment around this LED lighting system.
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Do not cause damage to cables (e.g. lighting cable or junction cable).

Doing so may result in a malfunction. To avoid that, pay utmost attention to install the LED lighting system or mount it to moving parts. Should any cable cause damage or a broken wire in it, contact your MORITEX sales representative or local authorized distributor for repair or replacement of the cable.

Do not touch during illumination or right after switch-off.

Some of the LED lighting equipment generate much intense during illumination. Please pay extra attention not to touch the equipment, for direct skin contact during illumination or right after switch-off may result in skin burn.

Do not touch at electrostatically charged state.

Doing so may result damage to LED lighting system.

Specification

● Specification

Item	
Model	Product label
LED color	Model explanation
Max. rate	Product label
Max. power consumption	Product label
Operating temperature / humidity	0°C ~ 45°C / 20% ~ 80%RH (with no condensation)
Storage temperature / humidity	-20°C ~ 60°C / 20% ~ 85%RH (with no condensation)
Cable	Illumination-SENS : KVC36-0.2-1P (KURAMO ELECTRIC) SENS-Connecor : KVC36-0.2-2P (KURAMO ELECTRIC)
Allowable cable bending radius	Illumination-SENS : 24mm SENS-Connector : 39mm
Connector	SMR-04V-B (JST)
Mounting screws • depth	Screw Limit label
CE Marking	EMC : 2014/30/EU RoHS : 2011/65/EU, 2015/863

* Please note that the specification is subject to change without notice.

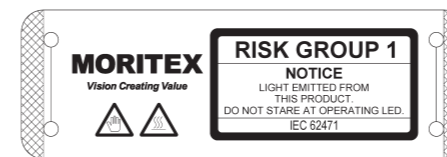
Safety of LED

LED products are required to meet the evaluating guidelines for safety defined by International Electrotechnical Commission (IEC). Users are requested to use the product sensibly and responsibly with a good understanding of applicable regulations.

The product is considered to be classified as Risk Group 1 (Low Risk) by IEC62471.

● Labelling on the Product

The label shown below is attached to the cable of each product.



Product Label

Each product is attached with a label, on which its product name, serial number, maximum rate, and other relevant data are printed. Please keep it in place while in use.

An example of the label



Maintenance

- Should any foreign particle deposits on the LED lighting system, completely wipe it off the LED lighting system.
- Should the LED lighting system cause any failure, contact MORITEX for repair without disassembling it.

Precautions for Installation and Use

To install this LED lighting system, pay careful attention to the following. Improper installation of the LED lighting system may result in a malfunction or a fire, etc. To install it under any conditions other than those described below, contact your MORITEX sales representative or local authorized distributor.

- ① Operating and Storage conditions to protect the specifications.
- ② Securely install the LED lighting system through making use of the mounting holes, etc. made on the light side. For the mounting holes, check with the relevant drawing.
- ③ Install the LED lighting system in places with less vibration.
- ④ Check to be sure that the LED lighting system has anything discharging moisture, steam, alcohol or gasses, etc. or contains it in the vicinity.
- ⑤ Do not touch any optical parts such as the lens or the diffuser. Furthermore, to perform maintenance on the LED lighting system, do not use solvents.

Disposal

To dispose of this LED Lighting System, dispose of it as industrial waste under laws and regulations applicable in the relevant region.

Warranty

* The warranty period of the products shall be two (2) years from the date of shipment from MORITEX (the Company).

* Should this LED Lighting System causes any failure attributable to the Company during the period of warranty aforementioned, the Company shall repair or replace faulty parts without charge; provided, however, that this Warranty Clause shall not apply in the event of any of the following events:

- ① The failure could not be predicted by the technical level available at the time of shipment;
- ② The failure results from causes other than this LED Lighting System;
- ③ The failure results from modification or repair made by any party other than the Company;
- ④ The failure results from use other than the original use of this LED Lighting System;
- ⑤ The failure results from improper handling such as a drop or an impact;
- ⑥ The repair of this LED Lighting System involves business trip;
- ⑦ The failure is not attributable to the Company such as acts of God or pollution; or
- ⑧ The Company has no opportunity to prove the phenomenon of the failure.

* The Company shall not be liable for any direct or indirect damage associated with this LED Lighting System. In addition, the scope of the warranty shall not exceed the unit price of the LED Lighting System.

* The specification of this LED Lighting System (including accessories and options) is subject to change without notice due to improvement or other reasons.

* The detail specification of this LED Lighting System shall be referred to the Outline Drawing or Delivery Specification.

For inquiry, please contact to:

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