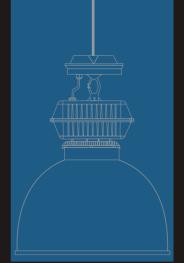


LEDempire

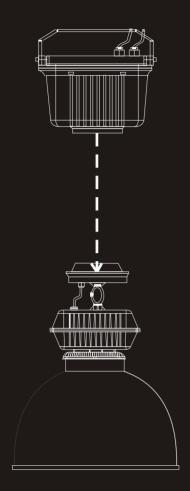
The new age of lighting

LIGHTING LIFTER





www.ledempire.lv sales@ledempire.lv

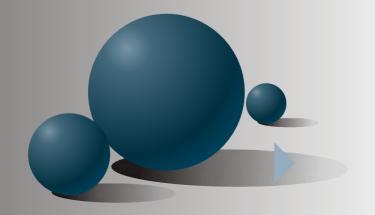


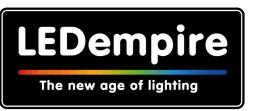






HIGH QUALITY ENVIRONMENTAL PROTECT SAVING ENERGY





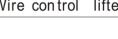
CONTENTS



Remote control lifter A1



Wire control lifter A2





Remote control lifter B1



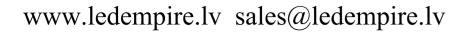
Wire control lifter B2



Remote control lifter C1



Wire control lifter C2





Mechanical Structure

FastandEasyInstallation
Designed lifter with fast and easy install method to save time and cost.

Lifting Capacity
Loads from 3kg to 20kg can be lowered depending on the models.

In the interest of safety the mains supply must be isolated and all works are carried out by qualified personnel.

Advantage
Exclusive patented technology
Precise mechanical structure

Synchronous transmission

Self-locking device

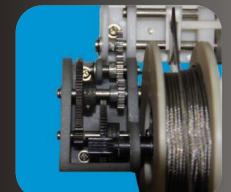
This product adopts permanent magnet motor and can realize self-locking function after power off, to stop automatically lifting, which won't happen to fall, out of control and other dangerous phenomenon

High precision mechanical structure

This product adopts the transmission device with high precision gear meshing machinery, to realize synchronous transmission function to lift orderly, stable and reliably.

Gear and gear shaft the special material of low carbon alloy steel which is the same with car transmission gear (20CrMnTi, C < 0.24%)





Rolling Wire Device

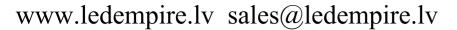
This product adopt automatic and adjustable wire-displacement mechanism through high precision mechanical device and synchronization transmission function, to make the wire roll on the wheel to realize to roll sequentially and tight, can Lower and rise many times without cross-winding, overlapping, disordering many times

Low Noise

When the lifter operates, gears meshing runs without noise, wire lifts without friction and interference through high precision mechanical device and the function of wire rolling orderly, to make noise to a minimum.

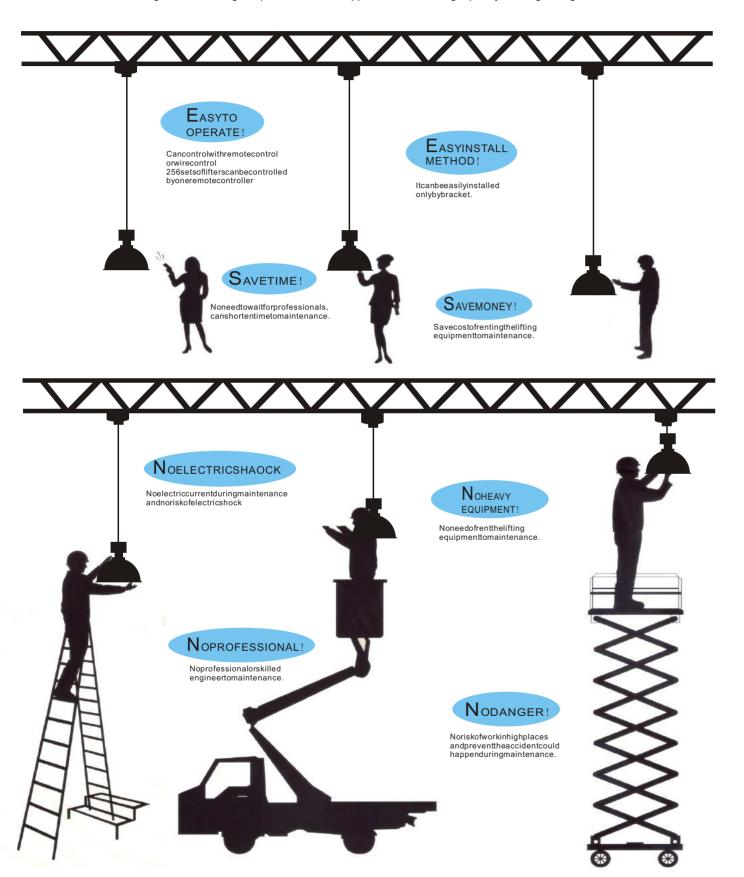








The Lighting Lifterprovides as a fe, fast and convenient method formaintaining all type of luminaires. $The innovative design comes in a range of options to suit most applications with \cite{Minimum} if the innovative design comes in a range of options to suit most applications with \cite{Minimum} if the innovative design comes in a range of options to suit most applications with \cite{Minimum} if the innovative design comes in a range of options to suit most applications with \cite{Minimum} if the innovative design comes in a range of options to suit most applications with \cite{Minimum} if the innovative design comes in a range of options to suit most applications with \cite{Minimum} if the innovative design comes in a range of options to suit most applications with \cite{Minimum} if the innovative design comes in a range of options to suit most applications with \cite{Minimum} if the innovative design comes in a range of options to suit most applications with \cite{Minimum} if the innovative design comes in a range of options to suit most applications with \cite{Minimum} if the innovative design comes in a range of options to suit most applications with \cite{Minimum} if the innovative design comes in a range of options and \cite{Minimum} if the innovative design comes in a range of options and \cite{Minimum} if the innovative design comes in a range of options and \cite{Minimum} if the innovative design comes in a range of options and \cite{Minimum} if the innovative design comes in a range of options and \cite{Minimum} if the innovative design comes in a range of options and \cite{Minimum} if the innovative design comes in a range of options and \cite{Minimum} if the innovative design comes in a range of options and \cite{Minimum} if the innovative design comes in a range of options and \cite{Minimum} if the innovative design comes in a range of options and \cite{Minimum} if the innovative design comes in a range of options and \cite{Minimum} if the innovative design comes in a range of options and \cite{Minimum} if the innovative design comes in a range of options and \cite{Minimum} if the innovative desi$



PRODUCT SPECIFICATIONS & BENEFITS

Safety The personal safety of maintenance worker should be in the first place, it can be completely avoidable for the dangerous conditions of working at high position when the workers maintain lighting

Convenient maintenance and cleaning

If the light is broken or changed or need cleaning, the lifter can descend to ground and maintenance staff can repair them conveniently and quickly.

Fast and save time the light is broken or changed, no need to rent and wait for the lifting equipment for maintenance or change. It can be done at any time by non professionals to not delay produce.

Cost savingNo need to rent the lifting equipment or ladder for maintenance or change, so it can save cost.

Easy to operate, easy to install

Weightlessness device

The control system has weightlessness protection device to prevent the lifting system from damaging due to operator's negligence when the lifter and light lower to the ground.









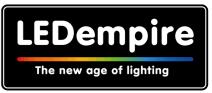














 $\mathscr{H}_{\mathsf{eavy}}$ duty type

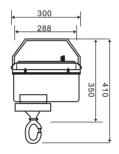
Volume: moderate size

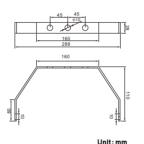
Appearance generosity and heavy

Lifting capacity: 3-20kg, 20m

Multi applications:

commerce, especial for industry





Lifter technical data





RJ-BM-A2
Wire control lifter

Control method	Remote control		wire control	
Model	ECO-BM-A1		ECO-BM-A2	
Unit net Weight(KG)	6	KG	6KG	
Lifting Weight(KG)	3-20KG	3-18KG	3-20KG	3-18KG
frequency	50HZ	60HZ	50HZ	60HZ
Voltage(V)	110	-277V	110V-	-277V
Lifting Height(M)	2	20M	20	M
lifting speed(M/Min)	1.8	M/Min	1.8N	/Min
Application Area Height(M)	Area belo	w 30 meters	Area below	30 meters
Protection Grade	IP54		IP54	
Anti-electric Shock	I Grade		I Gr	ade
Steel Wire Rope Quantity	1		,	I
Wire Rope Diameter(mm)	1.8M	MM(7*7)	1.8MN	Л(7*7)
Remote Controller Frequency	315Hz 413Hz			/
Remote control Distance	35M			1
Max Remote Control Quantity	256PCS/ 1PCS	Remote controller		1
Max Wire Control Quantity	1		1PCS/	1PCS
Motor Power(W)	35W		35	W
Type of motor		AC	А	С
Rated current of illuminator				
Package Size	36cm×3	2cm×29cm	36cm×32	cm×29cm

Material

- 1-High pressure die casting aluminum housing; car baking paint with process of anti-corrosion, antistatic, dustproof and waterproof;
- 2-Gear and gear shaft adopt the special material of low carbon alloy steel which is the same with car transmission gear.
- 3-Steel Wire is no rotating rope and material adopts what is specially used for airplane
- 4-Stainless steel fastener (bolts and nuts); silicon rubber sealing ring with high performance and anti-aging

Structure Characteristics

- 1-Adopt permanent magnet motor and can realize automatically self-locking function after power off, it won't happen to fall, out of control and other dangerous phenomenon
- 2- Adopt the transmission device with high precision gear meshing machinery, to realize synchronous transmission function to lift orderly, stably and reliably
- 3-Adopt automatic and adjustable wire-displacement mechanism to realize to roll sequentially and tight, can lower and rise many times without cross-winding, overlapping and disordering.

Performance Features

- 1-Lifting capacity: lifting weight: 3-20kg; lifting height: 20M
- 2-Two control ways (remote control and wire control) can be selected by customer and are easy to operate simply and conveniently which can also be equipped with different model lights and meet the differentiation demand of different customers
- 3-Lighting circuit and lifter circuit are independent each other and are supplied by two divided circuit lines to be reliable and safe.
- 4 -When the light lifts to the top to accurately connect with the lifter, it has no electric spark and no burning.
- 5 -Control system equipped with weightlessness protection device can prevent the lifting system from damaging due to operator's negligence when the lifter and light lower to the ground.
- 6-Low noise: when the lifter operates, gears meshing runs without noise, wire lifts without friction and interference to make noise to a minimum
- 7-can be customized according to customers' requirements in the range of rated lifting height

Installation

Many installation modes can be chosen according to the actual construction situation, which are safe, reliable, simple, and convenient.

Applications

It is more applicable for various industry places, such as factory, workshop, warehouse, stadium, and so on. Especially be suitable for where it is difficult for construction, or maintenance is not convenient, or job is dangerous situations.





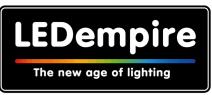












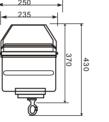


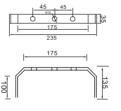
$\mathscr{C}_{\text{ompact type}}$

Volume compact Appearance grace Lifting capacity: 3-16kg, 16m Multi applications: commerce, industry and home



Remote controller





ECO-BM-B1
Remotecontrollifter



RJ-BM-B2
Wire control lifter

Lifter technical data

Control method	Remote control	wire control
Model	ECO-BM-B1	ECO-BM-B2
Unit net Weight(KG)	5.3KG	5.3KG
Lifting Weight(KG)	3-16KG	3-16KG
Lifting Height(M)	16M	16M
lifting speed(M/Min)	1.8M/Min	1.8M/Min
Application Area Height(M)	Area below 30 meters	Area below 30 meters
Protection Grade	IP54	IP54
Anti-electric Shock	I Grade	I Grade
Steel Wire Rope Quantity	1	1
Wire Rope Diameter(mm)	1.8MM(7*7)	1.8MM(7*7)
Voltage(V)	110-277V	110V-277V
Remote Controller Frequency	315Hz 413Hz	1
Remote control Distance	35M	1
Max Remote Control Quantity	256PCS/ 1PCS Remote controller	1
Max Wire Control Quantity	1	1PCS/1PCS
Motor Power(W)	35W	35W
Type of motor	AC	AC
Package Size	27cm×28cm×35.5cm	27cm×28cm×35.5cm

Material

- 1-High pressure plastic housing; car baking paint process, dustproof and waterproof;
- 2-Gear and gear shaft adopt the special material of low carbon alloy steel which is the same with car transmission gear
- 3-Steel Wire is no rotating rope and material adopts what is specially used for airplane
- 4-Stainless steel fastener (bolts and nuts); silicon rubber sealing ring with high performance and anti-aging

Structure Characteristics

- 1-Adopt permanent magnet motor and can realize automatically self-locking function after power off, it won't happen to fall, out of control and other dangerous phenomenon
- 2- Adopt the transmission device with high precision gear meshing machinery, to realize synchronous transmission function to lift orderly, stably and reliably
- 3- Adopt automatic and adjustable wire-displacement mechanism to realize to roll sequentially and tight, can lower and rise many times without cross-winding, overlapping and disordering.

Performance Features

- 1-Lifting capacity: lifting weight: 3-20kg; lifting height: 25M
- 2-Two control ways (remote control and wire control) can be selected by customer and are easy to operate simply and conveniently which can also be equipped with different model lights and meet the differentiation demand of different customers
- 3-Lighting circuit and lifter circuit are independent each other and are supplied by two divided circuit lines to be reliable and safe.
- 4 -When the light lifts to the top to accurately connect with the lifter, it has no electric spark and no burning.
- 5 -Control system equipped with weightlessness protection device can prevent the lifting system from damaging due to operator's negligence when the lifter and light lower to the ground.
- 6-Low noise: when the lifter operates, gears meshing runs without noise, wire lifts without friction and interference to make noise to a minimum
- 7-can be customized according to customers' requirements in the range of rated lifting height

Installation

Many installation modes can be chosen according to the actual construction situation, which are safe, reliable, simple, and convenient.

Applications

It is applied to various places of business and industry, such as factory, workshop, warehouse, stadium, exhibition center, station, and supermarket and so on. Especially be suitable for where it is difficult for construction, or maintenance is not convenient, or job is dangerous situations

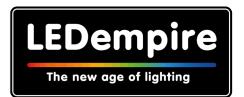














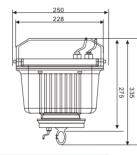
Delicate type:

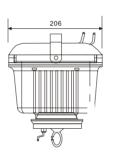
Volume: small size Appearance delicacy Lifting capacity: 3-20kg, 25m

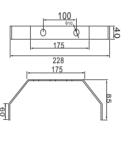
Multi applications:

business, industry and home

Remote controller







Lifter technical data

ECO-BM-C1
Remotecontrollifter



RJ-BM-C2

Wire control lifter

Control method	Remote	control	Wire c	ontrol
Model	ECO-BM-C1		ECO-BM-C2	
Unit net Weight(KG)	4.9	K G	4.9	KG
Lifting Height(M)	25	M	25	М
Lifting Weight(KG)	3-20KG	3-18KG	3-20KG	3-18KG
Frequency	50HZ	60HZ	50HZ	60HZ
Voltage(V)	110-2	277V	110V-	277V
lifting speed(M/Min)	1.8M	/Min	1.8M	/Min
Application Area Height(M)	Area below	30 meters	Area below	30 meters
Protection Grade	IP:	54	IP:	54
Anti-electric Shock	I Gr	ade	I Gr	ade
Steel Wire Rope Quantity	1		1	
Wire Rope Diameter(mm)	1.8MN	1(7*7)	1.8MN	1(7*7)
Remote Controller Frequency	315Hz	413Hz		/
Remote control Distance	35	M		/
Max Remote Control Quantity	256pcs/ 1pc Re	mote controller		/
Max Wire Control Quantity		I	1pc/1pc dist	ribution box
Motor Power(W)	35	W	35	W
Type of motor	A	C	A	С
Rated current of illuminator				
Package Size	27cm×27d	m×28cm	27cm×27c	m×28cm

Material

- 1-High pressure die casting aluminum housing; car baking paint with process of anti-corrosion, antistatic, dustproof and waterproof;
- 2-Gear and gear shaft adopt the special material of low carbon alloy steel which is the same with car transmission gear
- 3-Steel Wire is no rotating rope and material adopts what is specially used for airplane (Specification: 304# steel)
- 4-Stainless steel fastener (bolts and nuts); silicon rubber sealing ring with high performance and anti-aging

Structure Characteristics

- 1-Adopt permanent magnet motor and can realize automatically self-locking function after power off, it won't happen to fall, out of control and other dangerous phenomenon
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Applications

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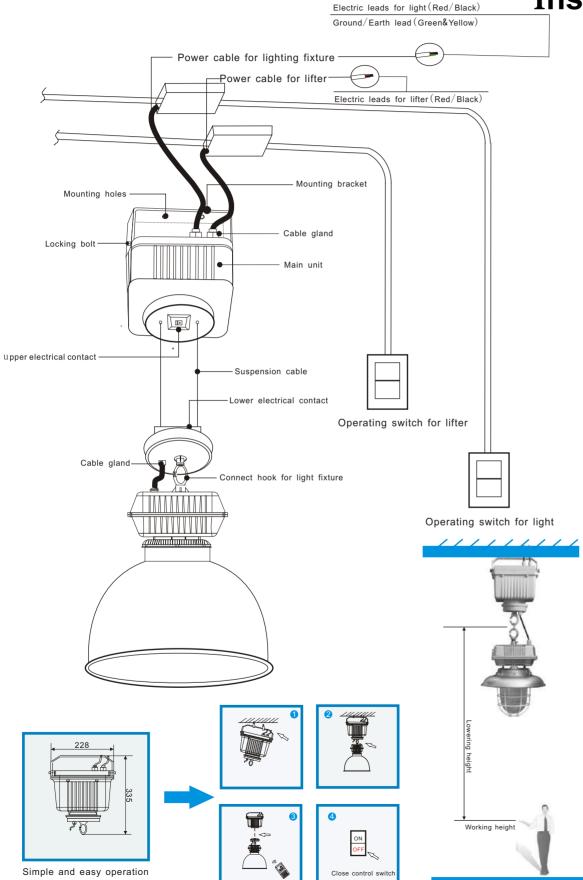




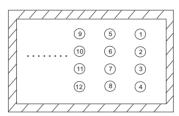




Installation process



1. Design the drawing of light position and mark the code, as the picture 1 shows, And lay every light and lifter on their correspording positions and to keep in correspondence with the code.

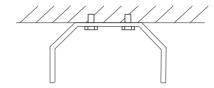


PICTURE 1: Position drawing of light and lifter

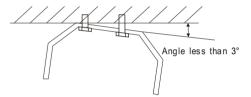
- 3. Please choose the installation according to the actual conditions.
- 3. 1 Fixed on the concrete roof.
- 1) Fix the bracket on the roof with expansion bolt (the bolt specification is M8*80 at least), see the picture 2
- Make sure the angle between bracket and roof surface is less than 3°, see the picture 3;
 The installation fixed on the slant wellsurface is like picture 4.
- 3. 2 Pipe-shape clamp installation use two sets of pipe-shape clamp and bolts to fix on the pipes, see the picture 5. Install the bracket and also make sure the angle is less than 3°, see the picture 6.
- 3. 3 "H" shape steel (H beam) installation style.

 Manufacture two 90° lifing-ears like
 the picture 7. showing and fix them on
 the "H"shape steel.

2. First connect the lifter to the power can operate normally or not. (Fix the bracket on the lifter evenly before power on, and then must pull tight the hook by hand through 3kg force or load 3kg weight on the hook and test to operate controller to up, down and stop)



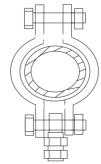
PICTURE 2: Bracket installation drawing



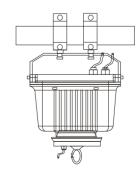
PICTURE 3: Installation angle drawing



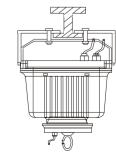
PICTURE 4: The drawing of fixing on the Italic wall surface



PICTURE 5: Pipe-shape clamp



PICTURE 6: Pipe-shape clamp Installation drawing



PICTURE 7: "H" shape steel installation drawing



4. Connect electric cable

The lighting circuit and the lifter circuit should be connected correctly according to retated standards and regulations.

Specially attention:

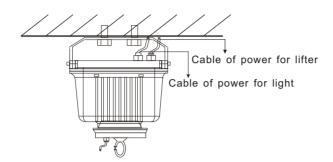
The lighting circuit and the lifter circuit are forbidden to use a same power-supply circuit, should have their respective supply power, and see the picture 8.

5. Must hang more than 3kg wight for going up and down.

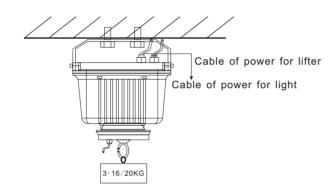
First testing the lifter under the 3kg load before hanging the light(in order to protect the light) According to its design, the lifter must load with minimum 3kg weights (but not exceeding 20kg) when the lifter goes up and down, or else it fails to go up and down because the steel cable disorder without any load (see the picture 9)

6. Switch off the supply power of lighting, and open the lifter supply power, please stop it when the lifter go down to 1 meter above the ground, see the picture 10 (If the distance between lifter and ground is less than 1M without stopping when going down, the light is easy to be broken).

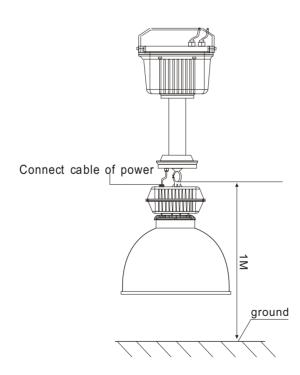
7. When everything is ok after testing lifter, take down the 3kg load, and hang the light (its weight is between 3-16/20kg) and connected the lighting wires.



PICTURE 8: drawing of the lighting circuit and lifter circuit



PICTURE 9: Hanging the 3kg weight load at least



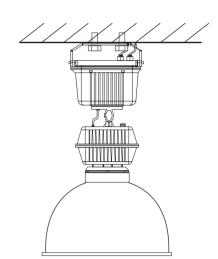
PICTURE 10: Hanging the 3kg weight load hang the light and connect the lighting wires

8. when the lifter go to the top position, it stops automatically, turn on the light switch and it is on.

9. Turn off the lifter supply power and installation is over.

Note:

- 1. The lifer operates continuously not more than 1 hour.
- 2. Please cut off the supply power right now and connect with the professionals or dealer if you have the doubt or find abnormal phenomena for the installation and use.

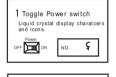






2. Power 3. LCD Display operational information. 4. Digit buttons 5. "RUN" button 6. "STOP" button 1 2 3 Run 4 5 6 Stop running. 7890 $"\uparrow"\mathsf{UP}$ button Clear 0 Enter

- 1. Battery Device Change the battery of the controller.
- Turn on or off the controller.
- Input the number of lighting need to
- Press this button, turn on the lifter.
- Press this button, the lifter stop
- Press this button, the lifter will be up. " ↓ " Down hutton
- Press this button, the lifter will be down
- 9. "ENTER" button Enter the number input by operator.
- 10. "CLEAR" button Clear the number input by operator.



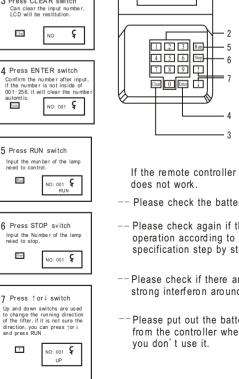
- 2 Input the number of lam The number of lamp is 001-2 For example:control the 001 lamp, and set No. 001. NO: 001 **Ç**
- 3 Press CLEAR switch Clear NO: Ç
- ⚠ Press ENTER switch Enter NO: 001 **Ç**



Stop

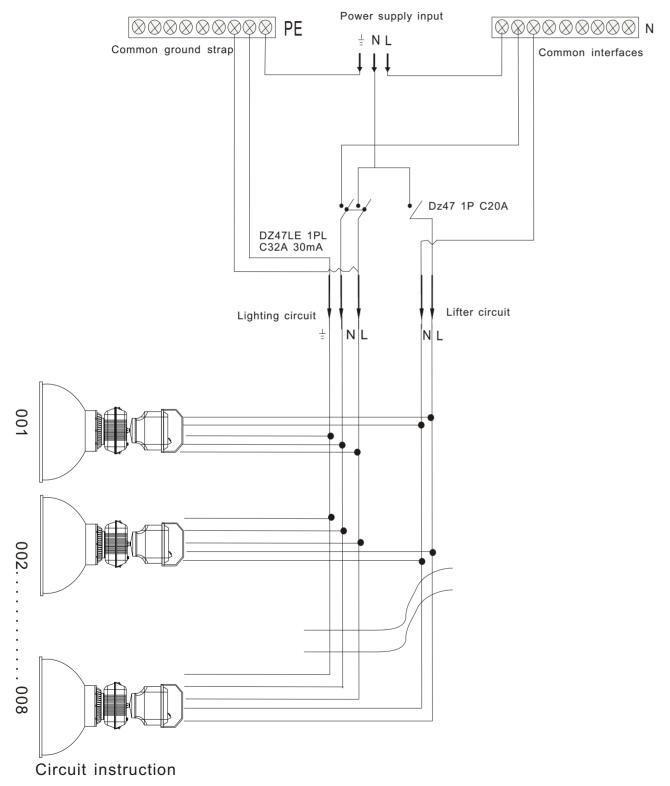
 \perp

- -- Please check the battery.
- 6 Press STOP switch -- Please check again if the Input the Number of the lamp need to stop. operation according to the specification step by step. NO: 001 **Ç**
- -- Please check if there any strong interferon around. 7 Press †or↓switch
 - -- Please put out the battery from the controller when you don't use it.

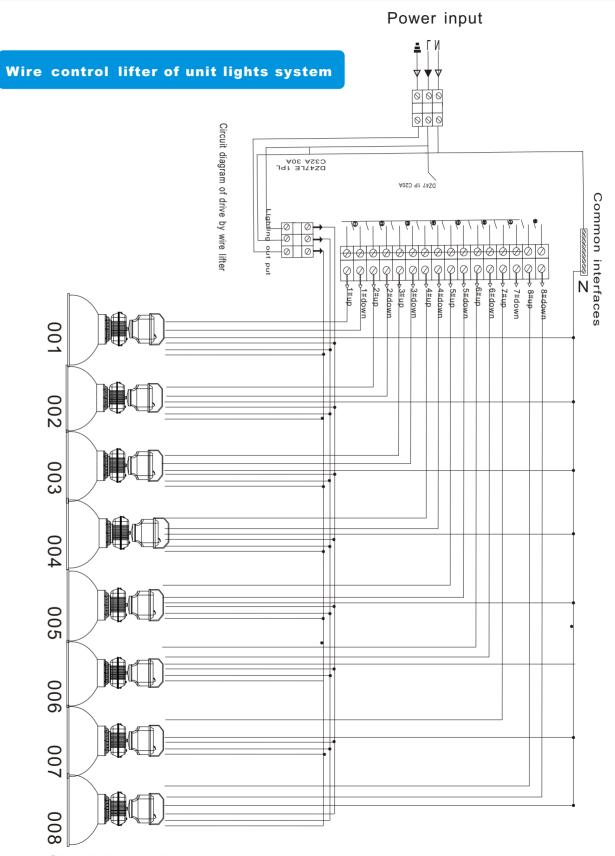




Remote control lifter for unit lights system



Remote control lifter contains two groups of divided circuit lines: one is for lighting circuit and the other is for lifter circuit, which are independent of each other. One remote controller can control 256pcs lifter at most. .



Circuit instruction

Wire-control lifter contains two groups of divided circuit lines: one is for lighting circuit and the other is for lifter circuit, which are independent of each other.

One Wire-control lifter distribution box can only supply power for 1pc lifter

LEDempire The new age of lighting

ACCESSORIES



part No.	Remotecontroller	suitablety pe
R-AS01	Remotecontrol	standard
	shell	gray
	battery	industrial



part No.	Model	suitablety pe
R-AS02	Remotecontrol	applicable
	wirecontrol	applicable
	color	grey ishwhite



partNo.	Mountingbracket	suitablety pe
	Remotecontrol	applicable
R-AS03	wirecontrol	applicable
	color	silv er



partNo.	Bracketbolts	suitablety pe
R-AS04	Remotecontrol	applicable
	wirecontrol	applicable
	color	stainlesssteel



partNo.	Hook	ty pe
	Remotecontrol	applicable
R-AS05	wirecontrol	applicable
	color	white/gray



partNo.	Double end bolt	Suitablety pe
	Remotecontrol	applicable
	wirecontrol	applicable
	color	sliv er



pai	rtNo.	lowercov er	suitablety pe
	R-AS06	Remotecontrol	applicable
R-/		wirecontrol	applicable
	color	white/gray	



partNo.	Receptor	Suitablety pe
R-AS07	Remotecontrol	applicable
	wirecontrol	inapplicable
	color	black

REFERENCE









