

Life Is On

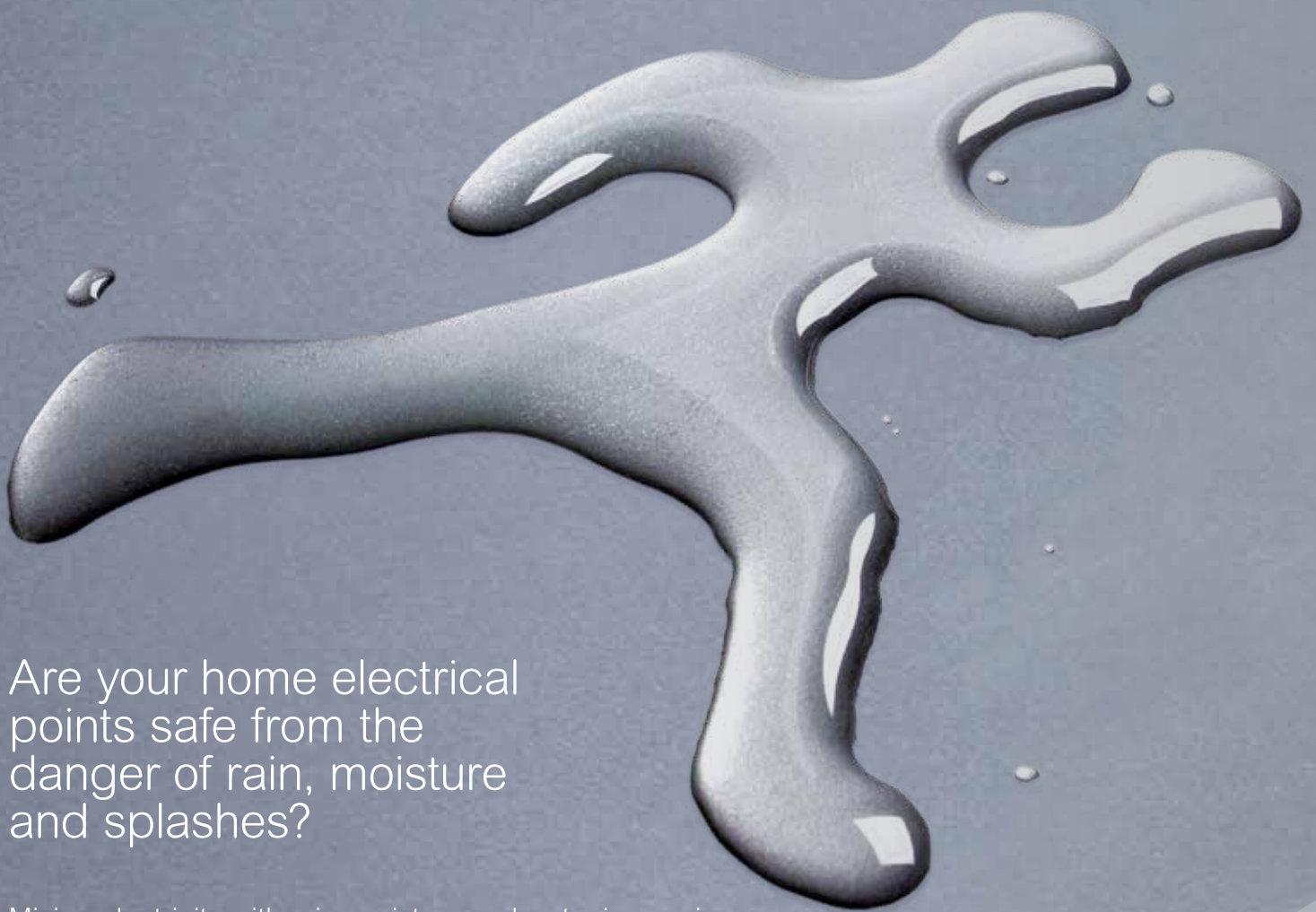
**Schneider**  
Electric

# Kavacha



[schneider-electric.com/sg](https://schneider-electric.com/sg)





## Are your home electrical points safe from the danger of rain, moisture and splashes?

Mixing electricity with rain, moisture and water is a serious hazard that can wreck electrical appliances and endanger people. It is dangerous when water leaks into a non-waterproof electrical device and when a person touches electrical sockets with wet hands or accidentally splashes it with water.

Although small electrical currents are not as noticeable, larger currents may cause fibrillation of the heart and damage to tissues. You and your family members could even be electrocuted if not careful.

Such alarming dangers raise concerns about home electrical safety. There's a need for high quality weatherproof devices to protect you and your family members from the risk of electrocution both inside and outside the home.

Schneider Electric provides the ideal domestic weatherproof and waterproof electricity solution with Kavacha.

## What is full-time protection?

The conventional approach to achieve waterproof protection is to add a waterproof cover that closes over an electrical point to keep it dry. But typically these covers don't offer full-time protection since they must be opened manually to access the switch or socket – the protection is gone when you need it most.

With patent-pending design, Kavacha Full-Time Waterproof Covers enable electrical points to be operative even when the covers are closed. There is complete protection in humid environments and even when someone touches the area with wet hands. Across the entire Kavacha range, safety is uninterrupted and full-time protection is offered for complete peace of mind.

Kavacha by Schneider Electric is a uniquely designed range of weatherproof devices developed specially to offer full-time protection in areas around the home that are susceptible to water, rain and moisture such as the door entrance, bathroom and kitchen, and the garage and gardens.

Full-time  
protection

## Ingress Protection Ratings – the key to recognising quality

Ingress Protection Ratings (IP Ratings) is a standard rating system that classifies and rates the degree of protection provided against the intrusion of solid objects, dust, accidental contact, and water in mechanical casings and electrical enclosures.

The IP Rating takes the form of rating by a two-digit number, for example IP56 or IP66. The first digit indicates the size of solid particles the device can keep out. The second digit indicates the pressure of liquids it can keep out. Higher numbers mean more protection. You can find the IP Rating of a device on the product itself, the packaging or user manual, depending on the manufacturer.

It is important to note that there is a difference between “certified” and “designed according to” on weatherproof products. Products with “designed according to” are NOT certified. Beware since there are products on the market that are not truly IP certified. All Kavacha products have been rigorously tested and have achieved full IP certification.

FIRST DIGIT			SECOND DIGIT		
	TEST	PROTECTION		TEST	PROTECTION
0	No Test applied	Inherent degree of protection	0	No Test applied	Inherent degree of protection
1		Protected against solid objects larger than 50 mm (e.g. accidental contact with hand)	1		Protected against drops of water falling vertically
2		Protected against solid objects larger than 12 mm (e.g. finger of the hand)	2		Protected against drops of water falling at up to 15° from the vertical
3		Protected against solid objects larger than 2.5 mm (e.g. tools, wires)	3		Protected against spraying water at up to 60° from the vertical
4		Protected against solid objects larger than 1 mm (e.g. fine tools and wires)	4		Protected against splashing water from all directions
5		Protected against dust. Prevent entry in sufficient quantity to interfere with satisfactory operation	5		Protected against jets of water from all directions
6		Completely protected against dust	6		Protected against jets of water of similar force to heavy seas
			7		Protected against the effects of immersion
			8		Protected against the effects of submersion





The industrial 56 series switched socket have the performance but not the design for home use. Domestic appliance plugs need changing to make them compatible.





## A friendly and safe home environment

Kavacha is friendly in your home because every product is specifically designed for a domestic environment. Your home is not the same as an industrial space.

A home must be safe, yet it has to be pleasing and comfortable with attractive interior design. Heavy industrial switches and socket outlets might make your home safe, but fitting them in your home is not the ideal solution because they are not designed for domestic interiors and are not compatible with normal household plugs.

### **Kavacha won't ruin your décor**

Kavacha ensures home safety without compromising your home décor. Kavacha products are designed to last and are practical too.

### **Kavacha is effortlessly easy to use**

Kavacha is easy to use yet provides industrial-strength protection. Industrial switches and socket outlets require heavier and specially designed plugs which makes it a real hassle for home users. Kavacha doesn't require you to change your plugs, yet you still achieve industrial grade weatherproofing protection.



When it comes to electricity there are many potentially dangerous hazards around the home. Fortunately you can stay safe with Kavacha and simultaneously achieve full-time protection and a friendly home environment.









Will your visitors  
get a shocking  
welcome?

# Welcome your visitors safely with an easily-installed Kavacha Weatherproof Door Bell

It's one of the first things you'll encounter in a home and is a leading indicator of a quality residence. The Kavacha Weatherproof Door Bell is not only the ultimate doorbell but is also ideal to operate as an outdoor electric gate switch in a weather-exposed entrance.

## Ingress Protection Rating

### IP44 Certified

- Protected against solid objects larger than 1 mm (e.g. fine tools and wires)
- Protected against splashing water from all directions

## Colour availability

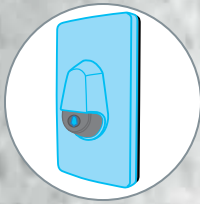


Grey

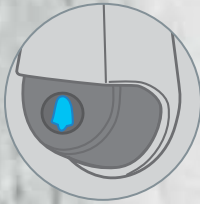


White

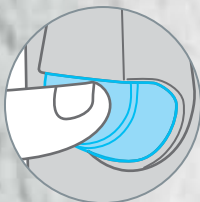




Seamless polycarbonate cover plate leaves no gap for leakage



Long-life and energy efficient blue LED locator provides higher visibility



Large press dolly which is easy to press



Slimmest and best looking design



○ Co-injection moulded gasket on the base plate seals tight with the cover plate, avoiding any penetration of water and is more durable than the conventional O-ring design

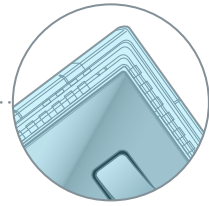
○ Recessed flush back makes installation easy and effective even on rough wall surfaces



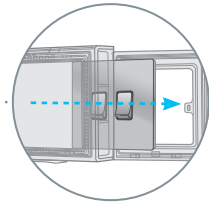
Is he about to  
turn on the tears?



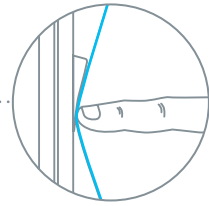




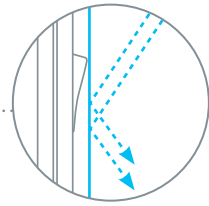
Attractive see-through cover and frame does not affect home décor and allows the switch to be easily seen



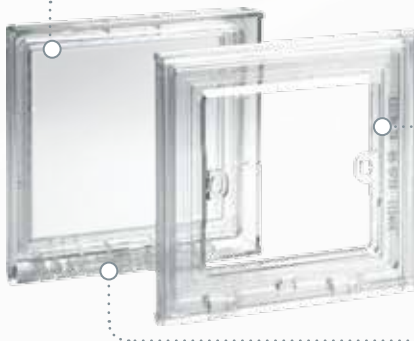
Compatible with most British format (86mm x 86mm) wall plates which can be quickly retrofitted and are easy to install



Flexible and durable membrane allows switch to be pressed easily when cover is tightly closed



UV-impervious membrane filters out UV and protects the switch from damage caused by sunlight



- Double-injection moulded cover increases the level of protection from any moisture or dust entering
- Double-injection moulded base is constructed from soft plastic for a higher level of waterproof protection on any surface
- Patented detachable cover is operable with a lock in place, which can be simply, conveniently and safely unlocked for removal



# Keep everyone smiling with extra-safe switches protected by the Kavacha Full-Time Weatherproof Membrane Switch Cover

The dangers of electricity lurk everywhere in indoor areas. The biggest risk is around water sources where people have wet hands or places such as bathrooms or kitchens where moisture easily accumulates. That's why you need protective switch covers.

Conventional waterproof covers help keep switches dry when they are closed but must be opened when used. Offering uninterrupted protection, with Kavacha Full-Time Weatherproof Membrane Switch Covers, switches can be operated even when cover are tightly closed.

## Ingress Protection Rating

### IP55 Certified

- Protected against dust. Prevent entry in sufficient quantity to interfere with satisfactory operation
- Protected against jets of water from all directions

## Colour availability



Transparent



White







Are you sure your  
socket cover is  
providing you with  
safety protection at  
all times?



# Kavacha Full-Time Weatherproof Socket Cover provides high quality weatherproof electrical socket outlet protection at all times.

Many electrical sockets in your home are near sources of water. People often have wet hands around your home, and around these potentially dangerous outlets. Moisture also easily accumulates in laundry rooms, kitchens and bathrooms where electrical sockets exist.

Conventional socket covers can keep sockets dry when they are tightly closed but when sockets have a plug present socket covers must be opened, thus creating a scenario where the protection is missing when you need it most.

All your home electrical sockets need full-time protection. That's why the Kavacha Full-Time Weatherproof Socket Cover should be installed on every electrical socket in your home.

Full-time protection means sockets work even when the covers are tightly closed.

## Ingress Protection Rating

### IP55 Certified

- Semi-protected against dust
- Protected against jets of water from all directions

## Colour availability

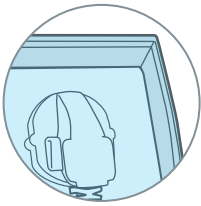


Transparent

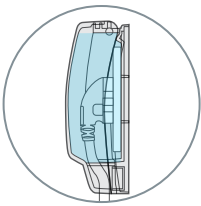


White

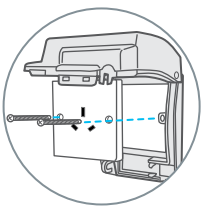




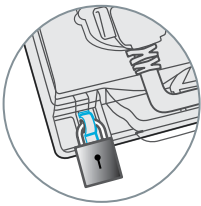
Attractive see-through cover does not affect home décor. Tough polycarbonate resin socket cover does not break easily



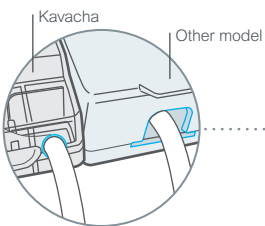
Curvy covers with spacious room for plugs in various sizes to fit in and covers can still be tightly closed



Compatible with most British format (86mm x 86mm) wall plates which can be quickly retrofitted and are easily to install



Padlock facility provides added safety



Water and moisture can be completely kept out of the socket cover at all times even with a plug present, since the cover snugly clicks shut around the plug cord, leaving no gap around the plug cord







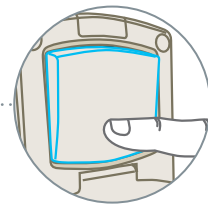
Can lightning strike you in a sunny outdoor environment through an unprotected outdoor socket?



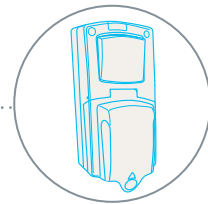




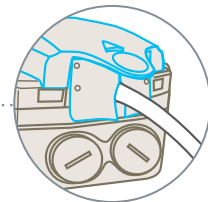




Large press dolly which is easy to press



Neutral colour and handy design has minimal impact to your home design



Protection shield for socket outlet to ensure plug is completely kept out of water and moisture at all times, since the cover can be closed snugly and leaves no gap around the plug cord



# Strike out danger with Kavacha AS industrial strength electrical point protection for the great outdoors

This sturdy range of switches and sockets are for outdoor areas that are susceptible to heavy blows, longtime exposure to sunlight and (extra space) risk being splashed by chemicals. Balconies, swimming pools, exterior walls and gardens will all be much safer from exposed electricity with Kavacha AS.

Kavacha AS protects you and your family outdoors in five important ways. It guards against water sprayed from a hose. It guards against rain or water, is dust proof, impact resistant, UV resistant and also chemical resistant.

Nevertheless, Kavacha AS ensures home safety without compromising on home design -- they are practical and designed to last.

## Ingress Protection Rating

## Models and colour availability

### IP56 Certified

#### (For switched socket and socket outlet)

- Semi-protected against dust
- Protected against jets of water of similar force to heavy seas

### IP66 Certified

#### (For switch and isolating switch)

- Completely protected against dust
- Protected against jets of water of similar force to heavy seas



Switched socket  
(Grey)



Socket outlet  
(Grey)



Switch  
(Grey)



Isolating switch  
(Grey)







Can your air conditioner permanently chill you if you attempt maintenance in the rain?



# Your air conditioner won't leave you cold with a professional grade Kavacha W isolating switch installed

Government regulations in some countries require electric motors and servo-motors (e.g. split-type air conditioners) to be equipped with an easily accessible isolating switch so that electrical currents can be quickly cut.

To conform to any such regulations in your country and to play safe, it is best to install Kavacha W isolating switches in outdoor areas for safe isolation of air conditioners and other heavy duty motorised appliances.

The lever of Kavacha W can be locked in the off position, thus making sure the current of the electrical motors are cut which provides extra protection.

Kavacha W gives air conditioners five levels of protection. It guards against rain or water, is dust proof, impact resistant, UV resistant and also chemical resistant. It is the best ingress protection you can get for your heavy duty appliances.

## Ingress Protection Rating

### IP66 Certified

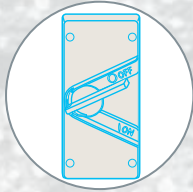
- Completely protected against dust
- Protected against jets of water of similar force to heavy seas

## Colour availability

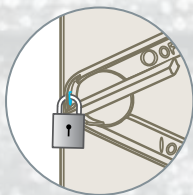


Grey





Impact resistant base and cover can safely withstand violent blows



Lever is lockable in the off position for greater safety and no electricity during maintenance








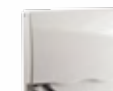
○ Dual 25mm screwed conduit entries top and bottom allows four ways to surface wire the switch. Each unit is supplied with screwed conduit plugs and screwed reducers for easy connection to 25mm or 20mm conduits and screw caps. Screw caps must be installed to ensure IP Rating

○ Weatherproof gasket guarantees tight sealing



○ A safety feature for mounting switches to metal structures is the insulating caps that cover base mounting screws to totally protect them from any live cables

○ Fixed earth and neutral connector bars with dual clamping screws per tunnel provide equal stripping lengths and secure clamping for all cables



































## Kavacha Full-Time Weatherproof Cover

	E223M TR	Full-time weatherproof membrane switch cover (transparent) ip55
	E223M WE	Full-time weatherproof membrane switch cover (white) ip55
	E223R TR	Full-time weatherproof single gang socket cover (transparent) ip55
	E223R WE	Full-time weatherproof single gang socket cover (white) ip55
	ET223R TR	Full-time weatherproof twin gang socket cover (transparent) ip55
	ET223R WE	Full-time weatherproof twin gang socket cover (white) ip55

## Kavacha Weatherproof Door Bell

	A3031WBPgy	Weatherproof surface mount door bell with LED indicator (grey) IP44
	A3031WBPwe	Weatherproof surface mount door bell with LED indicator (white) IP44

## Kavacha AS

	CSC313	13A 250V Surface mount single pole switched socket IP56
	CSC315RP	15A 250V Surface mount single pole switched socket IP56
	CSC316RP	16A 250V Surface mount single pole switched socket IP56
	CSC316RPD	16A 250V Surface mount single pole switched socket IP56
	CSC313N	13A 250V Surface mount single pole switched socket with neon IP56
	CSC315RPN	15A 250V Surface mount single pole switched socket with neon IP56
	CSC316RPN	16A 250V Surface mount single pole switched socket with neon IP56
	CSC316RPDN	16A 250V Surface mount single pole switched socket with neon IP56
	CSO313	13A 250V Surface mount single gang socket outlet IP56
	CSO315RP	15A 250V Surface mount single gang socket outlet IP56
	CSO316RP	16A 250V Surface mount single gang socket outlet IP56
	CSO313/2	13A 250V Surface mount single gang socket outlet IP56
	CSS116	16A 250V Surface mount single pole isolating switch IP66
	CSS120	20A 250V Surface mount single pole isolating switch IP66
	CSS132	32A 250V Surface mount single pole isolating switch IP66
	CSS140	40A 250V Surface mount single pole isolating switch IP66
	CSS220	20A 500V Surface mount single pole isolating switch IP66
	CSS232	32A 500V Surface mount single pole isolating switch IP66
	CSS240	40A 500V Surface mount single pole isolating switch IP66
	CSS320	20A 500V Surface mount triple pole isolating switch IP66
	CSS332	32A 500V Surface mount triple pole isolating switch IP66
	CSS340	40A 500V Surface mount triple pole isolating switch IP66
	CSS440	40A 415V Surface mount triple pole isolating switch IP66
	CSS120N	20A 250V Surface mount single pole isolating switch with neon IP66
	CSS220N	20A 500V Surface mount double pole isolating switch with neon IP66
	CSS316N	16A 500V Surface mount triple pole isolating switch with neon IP66
	CSS320N	20A 500V Surface mount triple pole isolating switch with neon IP66
	CSS332N	32A 500V Surface mount triple pole isolating switch with neon IP66
	CSS340N	40A 500V Surface mount triple pole isolating switch with neon IP66
	CSW110	10AX 250V Surface mount one gang two way switch IP66
	CSW110BPR	10AX 250V Surface mount one gang two way press return switch IP66
	CSW120	20A/16AX 250V Surface mount one gang two way switch IP66
	CSW220	20A 250V Surface mount one gang double pole switch IP66
	CSW110N	10AX 250V Surface mount one gang two way switch with neon IP66
	CSW120N	20A/16AX 250V Surface mount one gang two way switch with neon IP66
	CSW220N	20A 250V Surface mount one gang double pole switch with neon IP66
	CSW110/2	10AX 250V Surface mount two gang two way switch IP66
	CSW120/2	20A/16AX 250V Surface mount two gang two way switch IP66
	CSW220/2	20A 250V Surface mount two gang double pole switch IP66
	CSW110/2N	10AX 250V Surface mount two gang two way switch with neon IP66
	CSW120/2N	20A/16AX 250V Surface mount two gang two way switch with neon IP66
	CSW220/2N	20A 250V Surface mount two gang double pole switch with neon IP66



## Kavacha W



WHS20  
WHS35  
WHS55  
WHS63  
WHD20  
WHD35  
WHD55  
WHD63  
WHT20  
WHT35  
WHT55  
WHT63  
WHT80

WHS20	20A 250V Surface mount single pole isolating switch IP66
WHS35	35A 250V Surface mount single pole isolating switch IP66
WHS55	55A 250V Surface mount single pole isolating switch IP66
WHS63	63A 250V Surface mount single pole isolating switch IP66
WHD20	20A 440V Surface mount double pole isolating switch IP66
WHD35	35A 440V Surface mount double pole isolating switch IP66
WHD55	55A 440V Surface mount double pole isolating switch IP66
WHD63	63A 440V Surface mount double pole isolating switch IP66
WHT20	20A 440V Surface mount triple pole isolating switch IP66
WHT35	35A 440V Surface mount triple pole isolating switch IP66
WHT55	55A 440V Surface mount triple pole isolating switch IP66
WHT63	63A 440V Surface mount triple pole isolating switch IP66
WHT80	80A 440V Surface mount triple pole isolating switch IP66

## Towards an accident-free home

Zero accidents should be the goal of every homeowner. Electrical fittings have always carried the risk of injury and misadventure. Now you can end the risk by fitting practical, cost-effective and quality-engineered full-time Kavacha protection throughout your home.

## About Schneider Electric

Schneider Electric is the global specialist in energy management and automation. With revenues of €25 billion in FY2014, our 170,000 employees serve customers in over 100 countries, helping them to manage their energy and process in ways that are safe, reliable, efficient and sustainable. From the simplest of switches to complex operational systems, our technology, software and services improve the way our customers manage and automate their operations. Our connected technologies reshape industries, transform cities and enrich lives.

At Schneider Electric, we call this **Life Is On**.

Distributed By

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QUALITY CLASS



bizSAFE<sub>3</sub>

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Electric