

# Kavacha

## About Schneider Electric

As a global specialist in energy management with operations in more than 100 countries, Schneider Electric offers integrated solutions across multiple market segments, including leadership positions in Utilities & Infrastructure, Industries & Machines Manufacturers, Non-residential Building, Data Centres & Networks and in Residential. Focused on making energy safe, reliable, efficient, productive and green, the Group's 140,000 plus employees achieved sales of 24 billion euros in 2012, through an active commitment to help individuals and organizations make the most of their energy.

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## 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	0	No Test applied
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



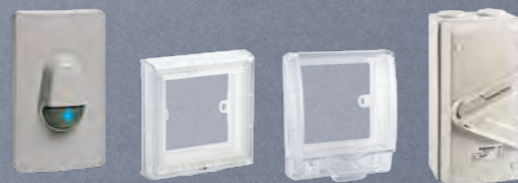
## A friendly and safe home environment

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.

## 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

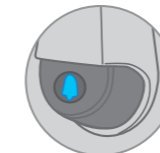


Grey

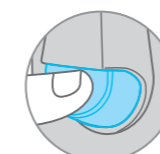
White



Seamless polycarbonate cover plate leaves no gap for leakage



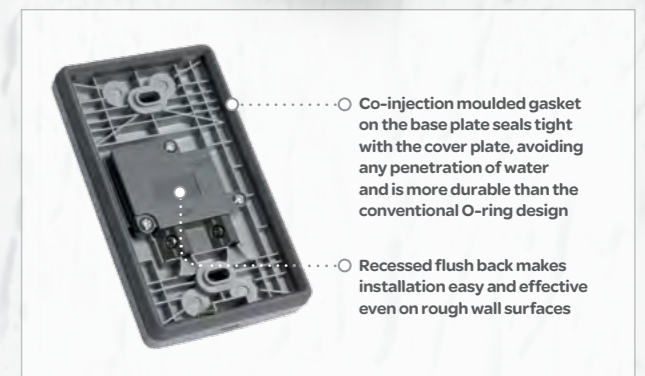
Long-life and energy efficient blue LED locator provides higher visibility



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

# 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.

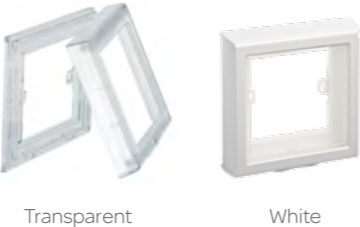
Conventional waterproof covers help keep switches dry when they are closed but must be opened when used. Offering uninterrupted protection, with Kavacha Full-Time Weatherproof Membrane Switch Covers, switches can be operated even when cover are tightly closed.

**Ingress Protection Rating**

**IP55 Certified**

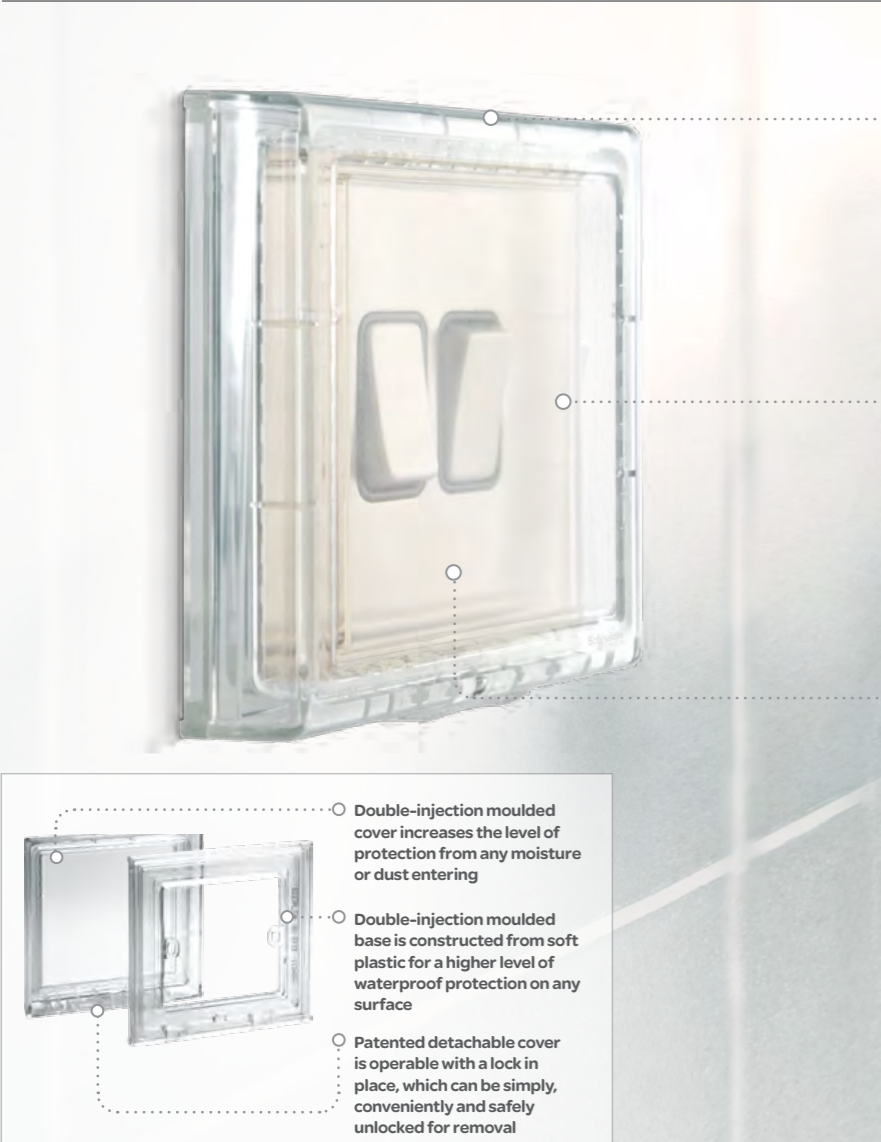
- Protected against dust. Prevent entry in sufficient quantity to interfere with satisfactory operation
- Protected against jets of water from all directions

**Colour availability**



Transparent

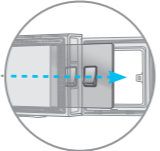
White



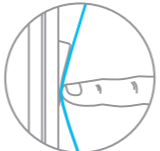
- Double-injection moulded cover increases the level of protection from any moisture or dust entering
- Double-injection moulded base is constructed from soft plastic for a higher level of waterproof protection on any surface
- Patented detachable cover is operable with a lock in place, which can be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



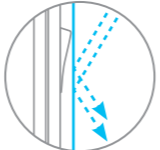
Attractive see-through cover and frame does not affect home décor and allows the switch to be easily seen



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

# 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**

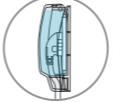


Transparent

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

# 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

### 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

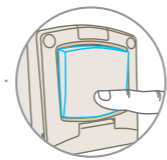
## Models and colour availability



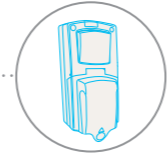
Switched socket (Grey)    Socket outlet (Grey)    Switch (Grey)    Isolating switch (Grey)



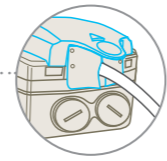
- Easily lifted protection shield allows easy access to socket
- Co-injected weather seal guarantees tight sealing and prevents no penetration of water
- Socket outlet accepts any British standard home appliance plugs



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

# 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

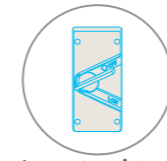
### IP66 Certified

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

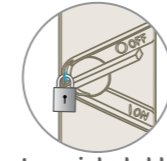
## Colour availability



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

**Catalogue Number Commercial Description**

**Kavacha Weatherproof Door Bell**

- A3031WBP\_WE Weatherproof Surface Mount Door Bell with Blue LED Indicator (White) IP44
- A3031WBP\_GY Weatherproof Surface Mount Door Bell with Blue LED Indicator (Grey) IP44



A3031WBP\_WE A3031WBP\_GY

**Kavacha AS**

- CSC313 GY 13A 250V Surface Mount Single Pole Switched Socket IP56
- CSC315RP GY 15A 250V Surface Mount Single Pole Switched Socket IP56
- CSC313N GY 13A 250V Surface Mount Single Pole Switched Socket with Neon IP56
- CSO313 GY 13A 250V Surface Mount Single Gang Socket Outlet IP56
- CSS120 GY 20A 250V Surface Mount Single Pole Isolating Switch IP66
- CSS232 GY\* 32A 500V Surface Mount Double Pole Isolating Switch IP66
- CSS320 GY\* 20A 500V Surface Mount Triple Pole Isolating Switch IP66
- CSS332 GY\* 32A 500V Surface Mount Triple Pole Isolating Switch IP66
- CSS220N GY 20A 500V Surface Mount Double Pole Isolating Switch with Neon IP66
- CSW110 GY 10A 250V Surface Mount One Gang Switch IP66
- CSW110BPR GY 10AX 250V Surface Mount One Gang Two Way Press Return Switch IP66
- CSW220 GY\* 20A 250V Surface Mount One Gang Double Pole Switch IP66
- CSW220N GY 20A 250V Surface Mount One Gang Double Pole with Neon IP66
- CSW110/2 GY 10AX 250V Surface Mount Two Gang Two Way Switch IP66
- WS226 RG 15A 250V Surface Mount One Gang Two Way IP56
- WS226/2 RG 15A 250V Surface Mount Two Gang Two Way IP56
- WS226/2PB RG 10A 440V Surface Mount Start/Stop Push Button IP66



CSW110 GY CSW110BPR GY CSW220 GY CSW110/2 GY CSS120 GY CSS232 GY CSS320 GY CSS332 GY CSS220N GY CSC313 GY CSC315RP GY CSC313N GY CSO313 GY



WS226 WS226/2 WS226/2PB

**Catalogue Number Commercial Description**

**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



E223M\_TR E223M\_WE E223R\_TR E223R\_WE ET223R\_TR ET223R\_WE

**Kavacha W**

- WHS20 GY 20A 250V Surface Mount Single Pole Isolating Switch IP66
- WHS35 GY 35A 250V Surface Mount Single Pole Isolating Switch IP66
- WHS55 GY\* 55A 250V Surface Mount Single Pole Isolating Switch IP66
- WHD20 GY 20A 440V Surface Mount Double Pole Isolating Switch IP66
- WHD35 GY 35A 440V Surface Mount Double Pole Isolating Switch IP66
- WHD63 GY 63A 440V Surface Mount Double Pole Isolating Switch IP66
- WHT20 GY 20A 440V Surface Mount Triple Pole Isolating Switch IP66
- WHT35 GY 35A 440V Surface Mount Triple Pole Isolating Switch IP66
- WHT63 GY 63A 440V Surface Mount Triple Pole Isolating Switch IP66
- WHT80 GY 80A 440V Surface Mount Triple Pole Isolating Switch IP66



**S-Classic E30**



E31WP

**Catalogue Number Commercial Description**

- E31WP S-Classic One Gang Flush Plate Waterproof Switch Cover IP54

## 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.



\* Indent item. Refer to customer care for details.