Frequently Asked Questions for the radiant® 15A and 20A Wave® Switches

Q. Two Wave Switch catalog numbers are listed; what is the difference between the RSWV203 and RSWV153?

The RSWV203 is the 20A Wave Switch and is therefore rated for use on either 15A or 20A circuits. The RSWV153 is the 15A version of the Wave Switch and can only be used on 15A circuits.

Both devices are suitable for use on 120VAC circuits only.

Q. Where can a Wave Switch be used?

These devices can replace (or be used in place of) most standard single-pole or 3-way light switches found in residential and commercial spaces.

They are approved for a wide range of load types, including resistive, general purpose, incandescent, standard ballast and electronic ballast. Also, with up to a ½ HP (15A version) or ¾ HP rating (20A version), they can be used for on/off control of small motor loads.

Q. Are the Wave Switches UL and/or cULus listed?

Yes, both versions of the Wave Switch are UL and cULus listed under UL File No. E350248.

All testing was completed to meet the requirements for the US Standard, UL 508 and CA Standard, C22.2 No. 14.

Q. What do the HP ratings mean & why are they different for the RSWV203 and RSWV153?

HP indicates a Horsepower rating. Both Wave Switches include HP ratings for use in controlling small motor loads. The RSWV203 is rated for up to ¾ HP in 20A applications, while the RSWV153 is rated for ½ HP in 15A applications**.** This allows these switches to be used for on/off control of small motors that do not exceed their respective ratings.

Q. Is the Wave Switch resistant to damage and deterioration from chemical cleaners?

Yes. This device was specially designed to be usable in applications where frequent cleaning is necessary.

Chemical resistance has been purposefully integrated into the externally facing front cover of the switch. The resistance was tested using common cleaning chemicals made by Lysol, Clorox, 3M, Metrex, ECOLAB, Diversey Care, and others.

Q. Can the Wave Switch be wired for 3-way switching applications?

Yes, both 15A and 20A versions of the Wave Switch can be wired for either single-pole or 3-way control. See the installation instruction sheet for the applicable wiring diagram.

Q. Will the Wave Switch work in new construction where a neutral connection is required by the National Electrical Code?

Yes, the Wave Switch was designed to accept a neutral wire if it exists in the wall box. To access this wire terminal, an installer will simply need to remove the yellow label on the back of the device. See the installation instruction sheet for additional detail.

Q. Will the Wave Switch work in retrofit applications where a neutral connection may or may not be present in the existing wiring?

Yes, the Wave Switch was designed to work in applications without a neutral wire. They will also work if a neutral is present and wired to the device (see previous question). As long as there is a ground wire connection within the wall box, the device will function properly.

Q. What style of wire termination is used on these products?

Back-wire pressure plate terminations are used on the back side of our Wave Switches for easy installation and time savings.

A wire nut is provided for connecting the ground wire lead that is attached to the device to the ground wire in the wall box.

Q. What wall plate can I use with the radiant Wave Switches?

The switches are designed to fit a standard “26” decorator-style opening.

For a clean, sleek look, pair a Wave Switch with a radiant Screwless Wall Plate – available in 9 classic colors and finishes.

For more rugged commercial or industrial applications, our SS26 Stainless Steel Wall Plate is recommended for maximum durability.

Q. How does the Wave Switch work and what are its advantages?

Simply wave your hand (or arm, elbow, etc.) in front of the switch to turn the connected light or load on/off.

This is a convenient solution for spaces where your hands are often full or messy, as an alternative to flipping or pressing a standard switch. This device can also help to create cleaner spaces, reducing the spread of germs and mess through its touchless design.

Q. How far away will the Wave Switch detect motion?

The internal sensor is pre-set to respond to movement within 4” from the Wave Switch. This range can be easily adjusted for motion detection anywhere between 1”-6” away to best fit an application’s needs.

Q. How do I adjust the motion detection range?

To adjust the motion detection range of a Wave Switch simply remove the snap-on cover of the device to access the sensor adjustment dial. Turning this dial toward the “+” symbol will increase the sensor distance up to a maximum of 6” away from the front face. Turning it toward the “-” symbol will decrease sensor distance down to 1” away.

Once adjusted as desired, snap the cover back into place until securely attached.

Q. Will the Wave Switch work in multi-gang applications?

The Wave Switch can be used in multi-gang instances. However, if using multiple Wave Switches side-by-side in a multi-gang installation, we recommend reducing the sensor distance for each to the minimum setting of 1” away. This will help reduce the risk of activating the wrong or multiple switch(es) with a single wave.

Q. Is the radiant Wave Switch available in other colors?

No, this device is only available in black at this time.

However, it pairs with any of the radiant Screwless Wall Plates – available in 9 classic colors and finishes.