

April 2020 #20-004

Wall Switch scope

This guidance material results from a request to clarify if a type of wall switch is captured by the definition of wall switch in AS/NZS 4417.2 Appendix B.

Question

Is a DIN RAIL switchboard mounted day/night sensor switch level 3? It does not have a manual operation, comes with a remotely located day light sensor triggering the 240 V ac switch.

Is a DIN RAIL switchboard mounted temperature sensor switch level 3? It does not have a manual operation, comes with a remotely located temperature sensor triggering the 240 V ac switch.

Class specification in AS/NZS 4417.2 states the following:

B.2.68 Wall switch

An electrical device that—

- a) is a household type;
- b) is an air-break or electronic switch;
- c) is for connection to the wiring of an electrical installation;
- d) is primarily for mounting on a vertical surface;
- e) is intended to turn a load ON or OFF; and
- f) has a rating not exceeding 20 A;

but does not include—

- g) automatic operation by means of motion sensors such as Passive Infrared sensors, Microwave sensors, Ultrasonic sensors or the like.

Class specification:

AS/NZS 3133, or

for electronic switches - AS/NZS 60669.2.1 - plus AS/NZS 3133 M rating if applicable

Answer

AS/NZS 4417.2 definition of wall switch excludes “*automatic operation by means of motion sensors such as Passive Infrared sensors, Microwave sensors, Ultrasonic sensors or the like.*”

From the description given the device fits that exclusion as it is “or the like” automatic operating means

It is therefore not level 3 wall switch but is level 1 equipment.