



UL 2557

STANDARD FOR SAFETY

Membrane Switches

UL Standard for Safety for Membrane Switches, UL 2557

First Edition, Dated December 4, 2020

Summary of Topics

This First Edition ANSI/UL 2557 dated December 4, 2020 covers membrane switches actuated by human activity, via a membrane or sensing substrate, to operate or control appliances and electrical equipment. The membrane switch electrical rating is not to exceed 30 Vrms and power not greater than 100 VA.

The requirements are substantially in accordance with Proposal(s) on this subject dated May 8, 2020 and July 31, 2020.

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Standard for Membrane Switches

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INTRODUCTION

1 Scope

1.1 These requirements apply to membrane switches actuated by human activity, via a membrane or sensing substrate, to operate or control appliances and electrical equipment. The membrane switch electrical rating not to exceed 30 Vrms and power not greater than 100 VA.

1.2 When this standard references "switches" it shall mean "membrane switches" unless specifically indicated.

1.3 Membrane switches which incorporate additional control functions governed by the switch function are within the scope of these requirements. Additional control functions shall be evaluated for their suitability using the applicable standards for the application.

1.4 These membrane switches are intended to be operated by a person, via a membrane or by actuating a sensing substrate.

1.5 These requirements cover the indirect actuation of the switch when the operation of the actuating member or sensing unit is provided by a remote control or a part of an appliance or equipment such as a door.

1.6 Embedded components are evaluated with regards to their safety and application to the membrane switch construction. The acceptability of an embedded component in the membrane switch shall be considered with regards to construction and performance requirements in the end product final application.

2 Components

2.1 Except as indicated in this section, a component of a product covered by this standard shall comply with the requirements for that component.

2.2 A component is not required to comply with a specific requirement that:

- a) Involves a feature or characteristic not required in the application of the component in the product covered by this standard, or
- b) Is superseded by a requirement in this standard.

2.3 A component shall be used in accordance with its rating established for the intended conditions of use.

2.4 Specific components are incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions.

3 Units of Measurement

3.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.