

Changes for M Series Waterproof Toggles to Enhance IP Rating

Type of Change:

- Engineering Part Number
- Product Appearance



M Series Waterproof Toggles Will Be IP68 Rated

M Series waterproof toggles will be undergoing improvements. Waterproof performance and immersion resistance will be enhanced, which will earn an upgraded rating from IP67 to IP68. The change will effect both standard and custom models. Details of the rating change are explained below, followed by a table of standard part numbers.

Waterproof Performance (Panel Seal)	Before Change	After Change
	IP67	IP68
	<p>Waterproofing is measured by submersing switch 5cm from water surface, and opening and closing 50 times at a frequency of 50 - 60 times per minute. The switch is then submersed 1.0m from surface and left in position for 30 minutes.</p> <p>Repeat opening and closing same as previous test. The resulting insulation resistance and voltage capacity are within rated values, and water has not entered inside the switch or installation panel.</p>	<p>Waterproofing is measured by submersing switch 5cm from water surface, and opening and closing 50 times at a frequency of 50 - 60 times per minute. The switch is then submersed 1.5m from surface and left in position for 30 minutes.</p> <p>Repeat opening and closing same as previous test. The resulting insulation resistance and voltage capacity are within rated values, and water has not entered inside the switch or installation panel.</p>

M Series Standard Part Numbers

Single Pole		Double Pole	
M2012WBW01	M2012WBG01	M2022WBW01	M2022WBG01
M2013WBW01	M2013WBG01	M2023WBW01	M2023WBG01
M2018WBW01	M2018WBG01	M2028WBW01	M2028WBG01

Notes

Waterproof and immersion resistance properties are confirmed in the test environment and may vary under other conditions. There are no changes to any of the switches' specifications. Contact information is below if more details are needed.

Effective Date

Changes for the M Series Waterproof Toggle will be effective April 2019.

NKK SWITCHES CO., LTD.

European Office:

Mergenthalerallee 10-12, 65760 Eschborn, Germany

Tel: +49 61 96 400 187 (English) +49 61 96 400 189 (English/Deutsch)

www.nkkswitches.eu E-mail: contact@nkkswitches.eu