

The power of simplicity

Membrane switches with integrated 7-segment display

The membrane switch is still state-of-the-art as an operating panel for machines and equipment. A membrane switch is versatile and reliable, even under the most extreme conditions. By choice of construction, a high IP rating can be achieved, making the switches also suitable for use in conditions where other types of switches are not adequate.



In the shadow of the popularity of touchscreens, the membrane switch can often be somewhat underrated. Yet even the development of the membrane switch has not stood still in recent years. SCHURTER offers an integrated solution of a membrane switch with numeric display that is easy to mount and allow an overall thickness of less than 2 millimetres.

Display with a thickness of just a few millimetres

Account manager at SCHURTER Electronics Sjoerd Mensonides: "This solution is suitable for any application where a numerical value has to be entered or read out via a switch. Think of an oven

with a choice of different settings or a tire air pump where the desired pressure can be set. With the switch, a selection can be made while the value is read on a 7-segment display, the familiar seven dashes that together form the digital number 8. By equipping this display with SMD LEDs, many colours are possible and the flat overall construction of the membrane keypad requires only a few millimetres. For applications with a low installation depth, the membrane keypad should be as thin as possible. The big advantage of this integrated solution is the small space requirement."

Andre Borneman, Team Leader Engineering at SCHURTER, adds:

"In traditional membrane switches, such a numerical display is a separate component, a block about 8 millimetres high. Until now, this block was assembled on a separate rigid PCB and this assembly was integrated into the application behind the front with a foil over it. With this new membrane switch variant, the display unit is already integrated into the circuit of the flexible membrane switch. No additional recess needs to be provided for the 7-segment display in the housing of the application. The membrane switch including the display unit is mounted directly onto the housing over its entire surface. Only the tail still has to be routed through a housing opening."

Contemporary upgrade

Mensonides: "So it really is an upgrade from a traditional membrane switch. This new variant is easier to install and reduces handling and installation time. The design of the membrane switch with 7-segment display is completely customised and allows for a stylish and modern look of the front panel in customised colours."

The right membrane switch for every solution

Every membrane switch from SCHURTER is custom-made, regardless of whether the quantity is small or large. Thanks to a largely automated production process, constant high quality can be guaranteed. SCHURTER has an exceptional competitive edge. The experts at SCHURTER will be delighted to advise you on selecting the optimum membrane switch for your application.

About SCHURTER

The SCHURTER Group is a globally successful Swiss technology business. With our components ensuring the clean and safe supply of power, input systems for ease of use and sophisticated overall solutions, we impress our customers with agility and excellent product and service quality.

SCHURTER Electronics B.V.
De Nieuwe Haven 12
7772 BC Hardenberg
The Netherlands
+31 523 281200
info.nl@schurter.com
schurter.com

