



TENZOSENSOR LLC

FOUNDED

in **2004**

ESSENCE OF THE DEVELOPMENT

Polymorphous multifunctional switching device.

PRODUCT APPLICATION

Thanks to its reprogrammability, the switching device can replace existing buttons and tumbler switches in operating systems (from household appliances to aircraft) and support the creation of a fundamentally-new concept for information-input systems.

DEVELOPMENT ROLL-OUT

2013

BIOGRAPHICAL DATA

GENERAL DIRECTOR:
Vladimir Stepanovich Nikitin,
PhD in Technical Sciences

Unique product features

1

The development makes it possible to create new ergonomically-designed gaming joysticks and consoles, an alternative vehicle steering system (similar development-concepts are currently being pursued by auto industry leaders Mercedes and Honda), and, with respect to modern Smart-TVs, a simple and highly-intuitive (i.e. user-friendly) unit with a limited number of elements to replace bulky remote controls. One polymorphous switching device, featuring the simplest of constructions and a weight of just 0.7 g, is capable of replacing an entire group of buttons.



Advantages of the development

1

Multifunctionality. This single polymorphous switching device can replace existing tumbler switches, circuit breakers, single-, dual- and multi-position switching devices, and one- and two-way joysticks – all while lowering the overall weight of the operating system. The device can be reprogrammed in real time.

2

The switching devices do not contain metal contacts, significantly reducing their cost and weight. The unique feature of the product lies in its special tensoresistive coating – it “senses” the directional movement of the joystick, as exerted by the person, and transmits the corresponding signal.