RNC Technologies

PiezoTouch Product Series

PTF-22-PDC

Programmable piezo switch 22mm, sanitary

The PTF-22-PDC is a programmable piezo-electric switch for use in sanitary applications like faucets, showers, urinals and flush valves. The low power design allows operation by battery or mains supply from 6V to 24V. This switch is capable of operating latching and non-latching solenoid valves.

The PTF-22-PDC is fully programmable via a computer connection with a range of functions for sanitary products, including faucets, showers, urinals and toilets.

Unique is the ability to adjust the touch sensitivity from 0.25N upwards and to operate behind a thicker metal surface of up to 3mm.

Key Characteristics

- Standalone operation
- Low power for battery operation
- Programmable via USB
- Fully waterproof (IP68 and IP69K)
- Activates with gloves and wet hands
- Washdown-proof up to 100 bar
- Rated at 50 million activations
- No build-up of dirt or germs

Programming Functions

- Flow time (optional Start-Stop)
- Hygiene flush (forced flush 24h/48h/72h after last use)
- Lock out time (product locks between uses for certain time)
- Security time (auto shut off after certain time)
- Touch sensitivity (0.25N upwards)
- Selector for latching or non-latching solenoid valve
- Customized functions optional

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Electrical Data

Switch Function	Latching or non-latching solenoid valve
Switch Voltage	6-24V DC
Switch Current	1A
Operating Cycles	> 50,000,000
Switch Resistance OFF	> 20M Ohm
Switch Resistance ON	< 1.5 Ohm
Switch Capacitance	10 pF
Current consumption	Approx 30 µA in standby (15 µA optional)

Mechanical Data

Housing Materials	Aluminium 6061 T651 or stainless steel (303,/304/316)
Mounting Thread	M22x1
D-Type	Yes
Actuating Force	0.25+ Newton
Connection Power	24 AWG 20 cm, 2 wires, red, black
Connection Output	24 AWG 20 cm, 2 wires, red, black
Connection UART-USB	24 AWG 20 cm, 3 wires
Mounting Screw Torque	2.5 Nm
Graphics	Anodized printing or laser engraving optional
Waterproof Connectors	Optional

Environmental Data

Operating Temperature	-40°C to 75°C
Storage Temperature	-40°C to 125°C
IP Protection	IP68 and IP69K
Certifications	CE, RoHS

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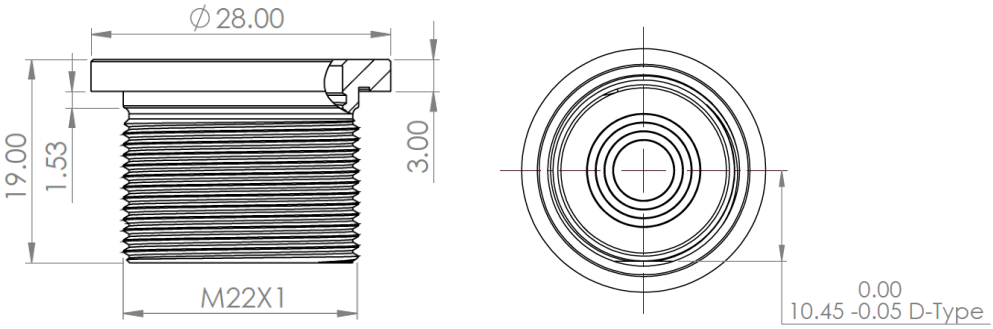
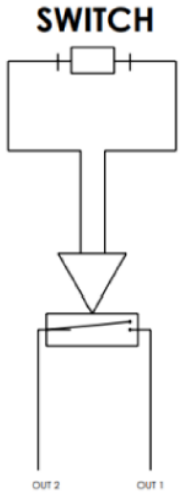
Dimensional Drawing



Electrical Diagram



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