

# SMA1 Touch Metal Piezo Switch



## **Momentary Piezo Switch**

## **Description**

Touch Metal Piezo Switch, 22mm mounting diameter, PG-16 thread, 28mm flat actuation area. Metal housings are milled, one piece construction and mounted with a nut. Aluminum housings are available in Silver, Red, Black, Green, Gold or Blue anodization.

### **Approvals**

Electrical Data

- MIL-STD 810C, 202E, 461B, 462
- CE EVERSWITCH products comply with Directives 2006/95/EEC for low voltage components.
- IP Rating IP69K Compatible with IEC 60529; EN 60529
- EMC: Directive 2004/108/EWG

#### **Characteristics**

- Proven Reliability: Tested for 50,000,000 cycles
- Weatherproof: Used in harshest outdoor conditions
- Touch Activated: Operable with gloves, tools, etc.
- Sterilizable: Wash down proof up to 100 BAR
- Vandal Resistant: For use in high traffic and abusive areas
- Zero power required for switch operation
- Mimics a dry contact switch closure
- Eliminates RFI, EMI and ESD issues
- Five year warranty

## **Customized Options**

A wide range of design options are available: connectors, switch function (prolonged, toggle, N.C., continuous, timer, slide and programmable types), current rating (up to 10A), graphics and housing dimensions and materials. We offer an embedded CPU for data output compatible with various communication protocols. Temperature compensated and thermal shock proof versions available as well.

## References

SMA2

## **TECHNICAL DATA**

Electrical Data			
Switch Function	N.O. Momentary		
Switch Voltage	0-24V AC/DC		
Switch Current	0.2A std (0.5A option)		
Rated Breaking Capacity	1W		
Operating Cycles	>50,000,000		
Switch Resistance OFF	> 5 MΩ		
Switch Resistance ON	< 20 Ω		
Capacity	30 pF		
Pulse Duration	125-300mS		
Contact Configuration	Free polarity		

## **Mechanical Data**

Storage Temperature IP-Protection

Housing Materials	Aluminum 6061 T651 or Stainless Steel (303/304)		
Actuating Force	3-5 Newton		
Connection	2x22 gauge wires		
Actuating Travel	0.002 mm		
Shock Protection	IK 06		
Fastening Torque	2.5 Nm		
Environmental Data			
Operating Temperature	-40 to +125 °C		

-40 to +125 °C

IP69K (front and back)



# SMA2 Touch Metal Piezo Switch



## **Momentary Piezo Switch**

## **Description**

Touch Metal Piezo Switch, 22mm mounting diameter, PG-16 thread, 28mm recessed actuation area. Metal housings are milled, one piece construction and mounted with a nut. Aluminum housings are available in Silver, Red, Black, Green, Gold or Blue anodization.

### **Approvals**

- MIL-STD 810C, 202E, 461B, 462
- CE EVERSWITCH products comply with Directives 2006/95/EEC for low voltage components.
- IP Rating IP69K Compatible with IEC 60529; EN 60529
- EMC: Directive 2004/108/EWG

#### **Characteristics**

- Proven Reliability: Tested for 50,000,000 cycles
- Weatherproof: Used in harshest outdoor conditions
- Touch Activated: Operable with gloves, tools, etc.
- Sterilizable: Wash down proof up to 100 BAR
- Vandal Resistant: For use in high traffic and abusive areas
- Zero power required for switch operation
- Mimics a dry contact switch closure
- Eliminates RFI, EMI and ESD issues
- Five year warranty

## **Customized Options**

A wide range of design options are available: connectors, switch function (prolonged, toggle, N.C., continuous, timer, slide and programmable types), current rating (up to 10A), graphics and housing dimensions and materials. We offer an embedded CPU for data output compatible with various communication protocols. Temperature compensated and thermal shock proof versions available as well.

## References

SMA1

## **TECHNICAL DATA**

Electrical Data			
Switch Function	N.O. Momentary		
Switch Voltage	0-24V AC/DC		
Switch Current	0.2A std (0.5A option)		
Rated Breaking Capacity	1W		
Operating Cycles	>50,000,000		
Switch Resistance OFF	> 5 MΩ		
Switch Resistance ON	< 20 Ω		
Capacity	30 pF		
Pulse Duration	125-300mS		
Contact Configuration	Free polarity		

## Mechanical Data

Housing Materials	Aluminum 6061 T651 or Stainless Steel (303/304)			
Actuating Force	3-5 Newton			
Connection	2x22 gauge wires			
Actuating Travel	0.002 mm			
Shock Protection	IK 06			
Fastening Torque	2.5 Nm			
Environmental Data				

Operating Temperature	-40 to +125 °C
Storage Temperature	-40 to +125 °C
IP-Protection	IP69K (front and back)

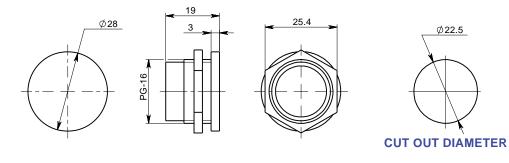


## SMA, SMF and SBS Momentary Switches

	Diamete <sub>r</sub>	Face	Function	,, 1,0/1	Connect	<sup>~uon</sup> Material		
S								
								Natural (only option for Steel) Black Red Green Gold Blue
						1 2 Hous	Stain	inum Type 6061 T651 less Steel Type 303/304 naterial
					P W C	Pins Wires	s 22 A e 60cr	WG 30cm standard n standard
				A 0-24V 0.2A B 0-24V 1.0A E 0-24V 0.125A for N.Closed types Voltage and Current				
			ВС	N.O.  N.Closed (0.125A only)				
		1 2 4 5 6	Flat face Recessed face Recessed face - square head Flat face-chamfered edge 18mm SMFstyle only Flat face-low profile					
	MA MF BS Mountin	Face style  22mm dia. mounting hole 16 or 18mm(SMF5) dia. mounting hole 19.5mm dia. mounting hole ng Diameter						

## **EVERSWITCH** TOUCH METAL SWITCHES

SMA1



SMA<sub>2</sub>

