



## **Piezo Switch Series Datasheets**





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Piezo switches from Bulgin, designed to withstand the harshest of environments.

Unlike traditional switches, Piezo switches have no moving mechanical parts making them extremely durable, withstanding millions of actuations and requiring little to no maintenance.

”

Part No System

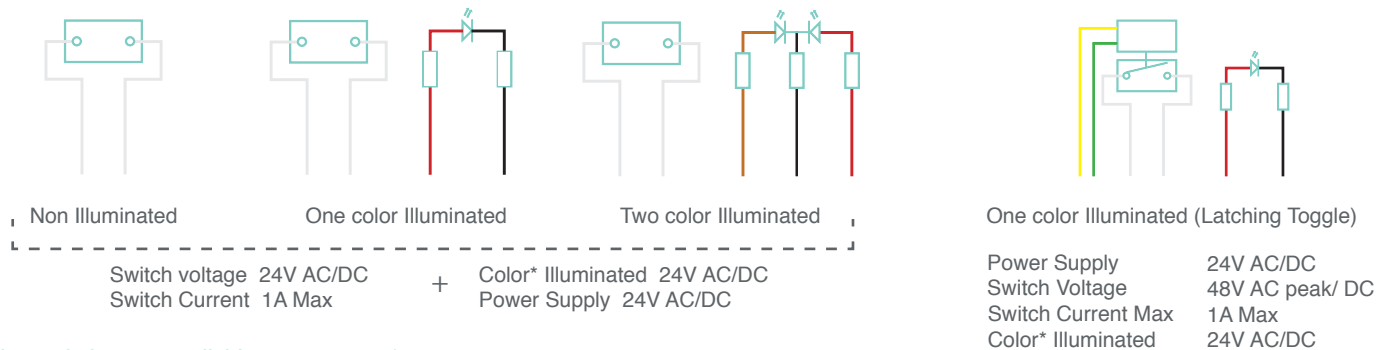


Series	Body Diameter	Profile	Color	Led Voltage	Type
MPZ - Non Illuminated MPZI - Illuminated	016 = 16mm 019 = 19mm 022 = 22mm	F = Flat Head G = Guided Profile	BL = Blue RD = Red GN = Green D1 = Red and green	24v	L = Latching Toggle (No Suffix= Momentary)

Examples:

- MPZ022/F = Non Illuminated Piezo, 22mm, Flathead
- MPZI/022/F/RD/24 = Illuminated Piezo, 22mm, Flathead, Red Illumination, 24 volt
- MPZI/022/G/BL/24/L = Illuminated Piezo, 22mm, Guided Profile, Blue Illumination, 24 volt, Latching Toggle

Circuit Specifications



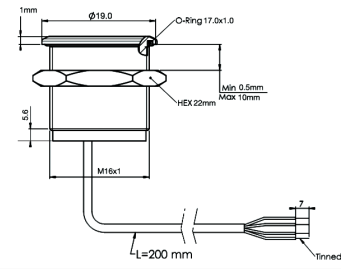
Other switches are available upon request\*

16MM Stainless Steel Non Illuminated



MPZ016

Non Illuminated  
 8 Inch lead  
 Flathead or Guided profile



**Specification**

**MPZ016**

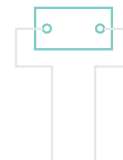
Type	Momentary
Material	Stainless Steel (Aluminum upon request)
Maximum Voltage	24V AC/DC
Switch resistance "ON"	<1Ω
Switch resistance "OFF"	5MΩ
Capacitance	100pF
Switching current (momentary)	1A Max
Switching pulse time (momentary)	up to 0.3 sec
LED Illumination	24V AC/DC
Actuating force, typically	3-5 N
Life cycle	>10 Million

**Environmental specs**

Sealing	IP68; IP69K
Operating temperature	-40°C to +85C°
Vibration resistance	5-500Hz/9.4m
Shock resistance	75g (g-force)
RoHS compliance	Compliant

**Circuit Specification**

16MM Stainless Steel Non Illuminated



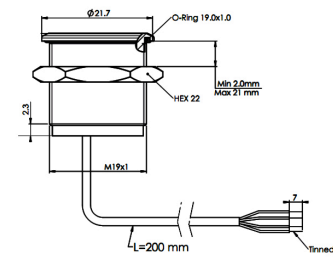
Switch Voltage	24V AC/DC
Switch Current	1A Max
Power Supply	24V AC/DC

19MM Stainless Steel Illuminated

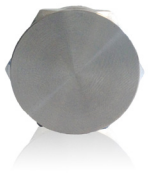


MPZI019

Blue Illumination  
 8 Inch lead  
 Flathead

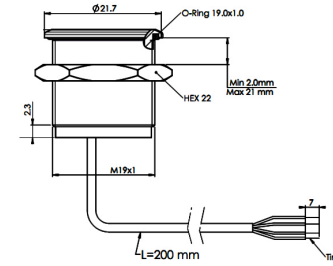


19MM Stainless Steel Non Illuminated



MPZ019

Non Illuminated  
 8 Inch lead  
 Flathead



**Specification**

**MPZ019, MPZI019**

Type	Momentary
Material	Stainless Steel (Aluminum upon request)
Maximum Voltage	24V AC/DC
Switch resistance "ON"	<1Ω
Switch resistance "OFF"	5MΩ
Capacitance	100pF
Switching current (momentary)	1A Max
Switching pulse time (momentary)	up to 0.3 sec
LED Illumination	24V AC/DC
Actuating force, typically	3-5 N
Life cycle	>10 Million

**Environmental specs**

Sealing	IP68; IP69K
Operating temperature	-40°C to +85°C
Vibration resistance	5-500Hz/9.4m
Shock resistance	75g (g-force)
RoHS compliance	Compliant

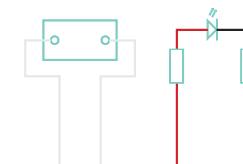
**Circuit Specification**

19MM Stainless Steel Non Illuminated



Switch Voltage 24V AC/DC  
 Switch Current 1A Max  
 Power Supply 24V AC/DC

19MM Stainless Steel Illuminated



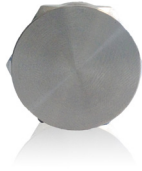
Switch Voltage 24 V AC/DC  
 Switch Current 1A Max  
 Color\* Illuminated 24V AC/DC  
 Power Supply 24V AC/DC

Piezo Switches  
**22mm Stainless Steel**

Illuminated and Non Illuminated

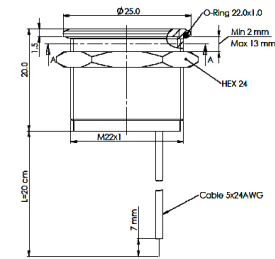


22MM Stainless Steel Non Illuminated



MPZ022

Non Illuminated  
 8 Inch lead  
 Flathead

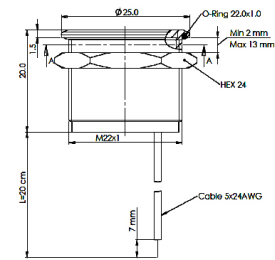


22MM Stainless Steel Illuminated



MPZI022

Red or Green Illumination  
 1 color  
 8 Inch lead  
 Flathead

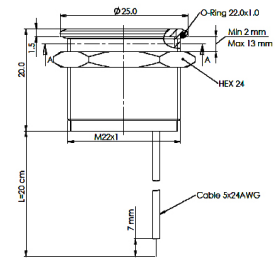


22MM Stainless Steel Illuminated



MPZI022

Red and Green Illumination  
 (2 color)  
 8 Inch lead  
 Flathead



**Specification**

**MPZ022, MPZI022**

Type	Momentary
Material	Stainless Steel (Aluminum upon request)
Maximum Voltage	24V AC/DC
Switch resistant "ON"	<1Ω
Switch resistant "OFF"	5MΩ
Capacitance	100pF
Switching current (momentary)	1A Max
Switching pulse time (momentary)	up to 0.3 sec
LED Illumination	24V AC/DC
Actuating force, typically	3-5 N
Life cycle	>10 Million

**Environmental specs**

Sealing	IP68; IP69K
Operating temperature	-40°C to +85°C
Vibration resistance	5-500Hz/9.4m
Shock resistance	75g (g-force)
RoHS compliance	Compliant

**Circuit Specification**

22MM Stainless Steel Non Illuminated



Switch Voltage 24 AC/DC  
 Switch Current 1A Max  
 Power Supply 24V AC/DC

22MM Stainless Steel Illuminated 1 color



Switch Voltage 24V AC/DC  
 Switch Current 1A Max  
 Color\* Illuminated 24V AC/DC  
 Power Supply 24 AC/DC

22MM Stainless Steel Illuminated 2 color



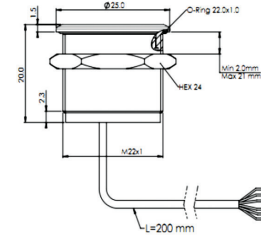
Switch Voltage 24V AC/DC  
 Switch Current 1A Max  
 Color\* Illuminated 24V AC/DC  
 Power Supply 24 AC/DC

22MM Stainless Steel Illuminated



MPZI022/L

Blue Illumination  
 1 color  
 8 Inch lead  
 Flathead



**Specification**

**MPZI022/L**

Type	Latching Toggle
Material	Stainless Steel (Aluminum upon request)
Power Supply	24V AC/DC
Switching Voltage	48V AC peak/DC
Switch resistant "ON"	<0.7Ω
Switch resistant "OFF"	>1000MΩ
Capacitance	<90pF
Switching current	1A Max
LED Illumination	24V AC/DC
Actuating force, typically	3-5 N
Life cycle	>10 Million

**Environmental specs**

Sealing	IP68; IP69K
Operating temperature	-40°C to +85°C°
Vibration resistance	5-500Hz/9.4m
Shock resistance	75g (g-force)
RoHS compliance	Compliant

**Circuit Specification**

22MM Stainless Steel Latching Toggle Illuminated



Power Supply 24V AC/DC  
 Switch Voltage 48V AC peak/ DC  
 Switch Current Max 1A Max  
 Color\* Illuminated 24V AC/DC



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