

Manufactured from Stainless Steel, Bulgin's extensive range of vandal resistant security switches are designed with a high resistance to wear and tear, corrosion and harsh use in potentially hostile environments such as access control applications.

The front and rear panel mounted versions have three profiles –prominent, domed and low profile – with a choice of switching and IP66 & IP68 front panel sealing which combined together to meet the ergonomic, electrical and environmental demands of switch panel design.

And where the ultimate strength of steel is not needed, there is a brass, chrome plated alternative. The low profile style switches are now also available with a latching, push on - push off, action.

The illuminated versions are available in dot and ring LED indication and a variety of illumination colours including bi-colour LED's. Newer versions also feature LED illumination driven by 6V, 12V & 24V together with rear of panel sealing, these options will add that extra dimension to control panel layouts and functionality.

Vandal Resistant
Push Button
Voltage Selectors
Capacitive Switches
Piezo Switches
197-202
Piezo Switches
12mm Switches
1209-214
Rocker Switches
242-246
Refrigerator Switches
253-257



Stainless Steel Low Profile Vandal Resistant

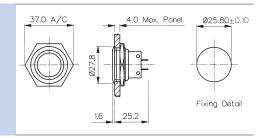


Front Panel Mounting



MP0027

- O 28mm diameter
- S.P.C.O. Microswitch5A, 250Vac



Front Panel Mounting

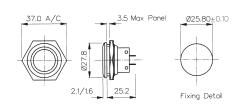


MP0038 Sealed to IP66

- O Front Panel Sealed to IP66
- 28mm diameter

 S.P.C.O. Microswitch

 5A, 250Vac



Specifications	MP0027	MP0038
Terminations:	Solder Tags	Solder Tags
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	5A, 250Vac 2A, 28Vdc	5A, 250Vac 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	$>10^3 \mathrm{M}\Omega$	$>10^3 \mathrm{M}\Omega$
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	–20°C to +70°C	-20°C to +70°C
Sealing (Front of panel only):		Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations Mechanical: Electrical:	1,000,000 (min) 35,000 (min)	1,000,000 (min) 35,000 (min)
Operating Pressure:	7.5N (typ)	12.5N (typ)
Rear Nut Fixing Torque:	2.5Nm	1.13Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	Glass Filled Nylon Brass, Tin Plated Stainless Steel	Glass Filled Nylon Brass, Tin Plated Stainless Steel
Contacts:	Fine Silver	Fine Silver
Thread size:	1.0" x 26TPI	1.0" x 26TPI
RoHS	Compliant	Compliant

Switches

Stainless Steel Low Profile Vandal Resistant

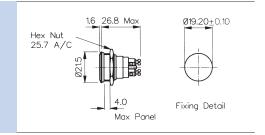
Momentary



Front Panel Mounting



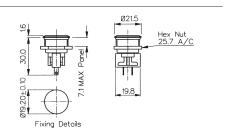
- Front Panel Sealed to IP68
- O 21.5mm diameter
- O S.P. Push to Make
- 1A, 50Vac/dc
- Industry Standard Size



Front Panel Mounting



- Front Panel Sealed to IP66
- ⇒ 21.5mm diameter
- O S.P.C.O. Microswitch
- O 5A, 250Vac



Specifications	MP0037	MP0031
Terminations:	Screw Terminals	Solder Tags
Switching:	S.P. Push to make Momentary action	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	1A, 50Vac/dc	5A, 250Vac 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	$>10^5 \mathrm{M}\Omega$	$>10^3\mathrm{M}\Omega$
Dielectric Strength:	>1.0kVac	>2.0kVac
Operating Temp. Range:	-20°C to +70°C	-20°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP68 EN 60529:1992+A2:2013 (Micro switch not sealed)	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
IP68 rating 10M for 2 weeks test:	Passed	(Moto switch net sealed)
Operations Mechanical: Electrical:	1,000,000 (min) 30,000 (min)	1,000,000 (min) 35,000 (min)
Operating Pressure:	7.5N (typ)	4.7N (typ)
Rear Nut Fixing Torque:	0.57Nm	0.57Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	Glass Filled Nylon Brass, Silver Plated Stainless Steel	Glass Filled Nylon Brass, Tin Plated Stainless Steel
Contacts:	Brass, Silver Plated, Silver	Fine Silver
Thread size:	0.747" x 26TPI	0.747" x 26TPI
RoHS	Compliant	Compliant

Stainless Steel Illuminated Vandal Resistant

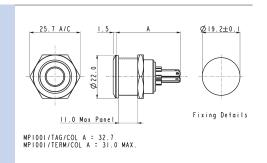


Front Panel Mounting



MPI001- front panel seal to IP66

- Dot illumination
- 22mm diameter
- Ô Single pole push to make
- 50mA, 24Vdc contact rating
- Red, Green, Amber, Blue, White or dual colour illumination
- Bright daylight LEDs
- 0 Independent LED terminals
- Front panel seal to IP66
- \Diamond Integral supply resistors
- TVS protection



Specifications MPI001/Termination/Colour/Voltage

Illumination style:

Terminations:

/28 (2.8mm tabs),

/TERM or /TE (screw terminals)

Single pole, push to make, tactile (momentary action) Switching:

Max. Switch Rating: 50mA, 24Vdc

LEDs (ratings @ 20mA)

Part No. /RD /GN /BL /WH /D5 /AM /D1 /D4 Colours White Red/Green Red/Blue Green/Blue Red Green Amber Blue Luminous Intensity 900mcd 2500mcd 900mcd 1500mcd 900mcd 2500mcd/5000mcd 2000mcd/850mcd 4000mcd/2000mcd Forward Voltage 3.6V/3.6V 1.85V 3.5V 2.3V 3.5V 3.6V 2.05V/3.6V 2.0V/3.6V Forward Current 20mA 20mA 20mA 20mA 20mA 20mA 20mA 20mA Moulding Colour Red Blue White Black Green Amber Black Black

Illumination Voltage: /no suffix No resistor fitted. An appropriate resistor must be series connected by the user. Voltages as above.

6Vdc /12 /24 24Vdc $<100 m\Omega$

Contact Resistance: Insulation Resistance: >10³ MΩ

Dielectric Strength: Contact to Panel >2.0kV

Contact to Contact 1500

Operating Temp. Range:

Sealing (Front of panel only):

Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)

Operations Mechanical: 750,000 (min) Electrical: 35,000 (min)

Operating Pressure: 12N Rear Nut Fixing Torque: 0.57Nm

Screw Terminal Torque 0.2Nm Max

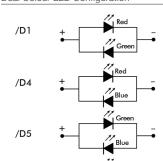
Materials

Switch assembly: UL94V-0 rated Polyamide (Nylon)

Tags: Copper Alloy Terminals: Copper Alloy Switch Body & Button: Stainless Steel Lens and Lens Body: Polycarbonate O ring: Nitrile Internal seal: Silicone Contact Plate: Gold Plated 18.97mm x 26TPI Thread size:

Compliant

Dual Colour LED Configuration



Stainless Steel Illuminated Vandal Resistant

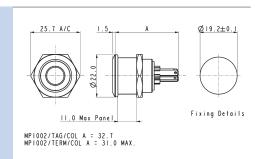


Front Panel Mounting



MPI002- front panel seal to IP66

- Ring illumination
- 22mm diameter
- Ô Single pole push to make
- 50mA, 24Vdc contact rating
- Red, Green, Amber, Blue, White or dual colour illumination
- \bigcirc Bright daylight LEDs
- 0 Independent LED terminals
- Front panel seal to IP66
- \Diamond Integral supply resistors
- TVS protection



Specifications MPI002/Termination/Colour/Voltage

Ring Illumination style:

/28 (2.8mm tabs), Terminations:

/TERM or /TE (screw terminals)

Switching: Single pole, push to make, tactile (momentary action)

Max. Switch Rating: 50mA, 24Vdc

LEDs (ratings @ 20mA)

Part No. /RD /GN /AM /BI /WH /D1 /D4 /D5 /D6 Colours Red Amber Blue White Red/Green Red/Blue Green/Blue Green/White Green Luminous Intensity 2500mcd 3.5V 900mcd 2.3V 900mcd 3.6V 2500mcd/5000mcd 2.05V/3.6V 2000mcd/850mcd 2.0V/3.6V 4000mcd/2000mcd 3.6V/3.6V 178mcd/450mcd 3.4V/3.2V 900mcd 1500mcd Forward Voltage 3.5V 1.85V Forward Current 20mA 20mA 20mA 20mA 20mA 20mA 20mA Moulding Colour Red Green Ambei Blue White Black Black Black Black

Illumination Voltage: /no suffix No resistor fitted. An appropriate resistor must be series connected by the user. Voltages as above.

> /6 6Vdc /12 12V/dc /24 24Vdc $<100 m\Omega$

Contact Resistance: Insulation Resistance: $>10^3 M\Omega$

Dielectric Strength: Contact to Panel >2.0kV

Contact to Contact 1500

Operating Temp. Range: -30°C to +70°C

Sealing (Front of panel only): Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)

Operations . Mechanical: 750,000 (min) Electrical:

35,000 (min) Operating Pressure: 12N Rear Nut Fixing Torque: 0.57Nm

Screw Terminal Torque 0.2Nm Max

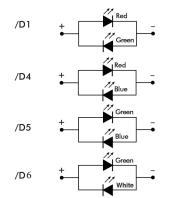
Materials

Switch assembly: UL94V-0 rated Polyamide (Nylon)

Copper Alloy Terminals: Copper Alloy Switch Body & Button: Stainless Steel Lens and Lens Body: Polycarbonate O ring: Nitrile Internal seal: Silicone Contact Plate: Gold Plated Thread size: 18.97mm x 26TPI

Compliant

Dual Colour LED Configuration



Stainless Steel Illuminated Vandal Resistant

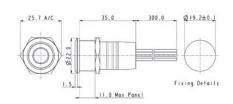


Rear Panel Sealed - Flying Leads



MPI002/FL/xx/x

- Dot or ring illumination
- 0 22mm diameter
- Single pole push to make
- \bigcirc 50mA, 24Vdc contact rating
- Red, Green, Amber, Blue, White or dual colour illumination
- Bright daylight LEDs
- \Diamond Independent LED terminals
- Ŏ Front and rear panel seal to IP66
- Integral supply resistors
- \bigcirc TVS protection



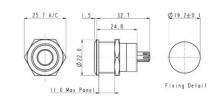
Flying lead colours: LED: red + and black -. Switch contacts: white

Rear Panel Sealed - Solder Tags



MPI001/RP/xx/x

- Dot or ring illumination
- 22mm diameter
- 0 Single pole push to make
- \Diamond 50mA, 24Vdc contact rating
- Red, Green, Amber, Blue & White illumination
- Bright daylight LEDs
- Independent LED terminals
- Front and rear panel seal to IP66
- Solder tag termination
- TVS protection



LED terminals marked + and -. Switch terminals unmarked.

MPI001/Termination/Colour/Voltage

Illumination style: Dot

Terminations: /RP (Solder tags)

Switching: Single pole, push to make, tactile (momentary action)

Max. Switch Rating: 50mA, 24Vdc

LEDs (ratings @ 20mA)

Part No. Colours Luminous Intensity Forward Voltage Forward Current Moulding Colour

Specifications

Illumination Voltage:

Contact Resistance:

Insulation Resistance: Dielectric Strength:

Operating Temp. Range:

Sealing (Front of panel only):

Operations Mechanical: Electrical:

Operating Pressure: Rear Nut Fixing Torque:

Materials Switch assembly:

Tags: Terminals: Switch Body & Button: Lens and Lens Body: O rina: Internal seal:

Thread size: RoHS

/FL (Flying leads)

/RD

Red

1.85V

20mA

Red

/6

/12

/24

<100mΩ

 $>10^3 M\Omega$

-30°C to +70°C

750,000 (min)

35.000 (min)

12N

0.57Nm

/GN /AM Green Amber 900mcd 2500mcd 3.5V

6Vdc

12Vdc

24Vdc

Contact to Panel >2.0kV

Contact to Contact 1500

(Micro switch not sealed)

20mA 20mA Green /no suffix No resistor fitted. An appropriate resistor must be series connected by the user. Voltages as above.

900mcd 2.3V Amber

Protection Classification: IP66 EN60529-1:1992 + A2:2013.

3.5V 20mA Blue

/BL Blue 1500mcd

White 900mcd 3.6V 20mA White

/WH

1.85V 20mA Red

/FL (Flying leads)

/RP (Solder tags)

50mA, 24Vdc

/RD

Red

/6

/12

/24

900mcd

3.5V 20mA Green

/GN

Green

2500mcd

20mA Amber

/AM

2.3V

Amber

900mcd

/no suffix No resistor fitted. An appropriate resistor must be series

/BL

Blue

3.5V

1500mcd

20mA 20mA White Blue

/WH

White

3.6V

900mcd

connected by the user. Voltages as above. 6Vdc 12Vdc 24Vdc <100mΩ >103 MO

MPI002/Termination/Colour/Voltage

Single pole, push to make, tactile (momentary action)

Contact to Panel >2.0kV Contact to Contact 1500

-30°C to +70°C

Protection Classification: IP66 EN60529-1:1992 + A2:2013.

(Micro switch not sealed)

750.000 (min) 35,000 (min)

12N 0.57Nm

UL94V-0 rated Polyamide (Nylon)

Copper Allov Copper Alloy Stainless Steel Polycarbonate Nitrile Silicone Gold Plated 18.97mm x 26TPI

Compliant

UL94V-0 rated Polyamide (Nylon)

Copper Alloy Copper Alloy Stainless Steel Polycarbonate Silicone Gold Plated 18.97mm x 26TPI

Compliant

Contact Plate:

Low Profile Brass Chrome Plated Vandal Resistant

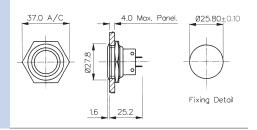


Front Panel Mounting



MPB038 Sealed to IP66

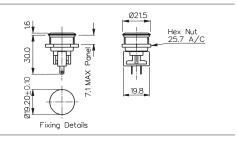
- Front Panel Sealed to IP66
- \Diamond 28mm diameter
- S.P.C.O. Microswitch
- O 5A, 250Vac



Front Panel Mounting



- Front Panel Sealed to IP66
- 21mm diameter
- S.P.C.O. Microswitch
- O 5A, 250Vac

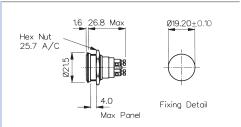


Front Panel Mounting



MPB037 Sealed to IP68

- Front Panel Sealed to IP68
- 21.5mm diameter
- 0 S.P. Push to Make
- 1A, 50Vac/dc



Specifications	MPB038	MPB031	MPB037
Terminations:	Solder Tags	Solder Tags	Screw Terminals
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)	S.P. Push to make Momentary action
Max. Rating:	5A, 250Vac. 2A, 28Vdc	5A, 250Vac. 2A, 28Vdc	1A, 50Vac/dc
Contact Resistance:	<10mΩ	<10mΩ	<10mΩ
Insulation Resistance:	$>10^3~\mathrm{M}\Omega$	>10³ MΩ	$>10^5~\mathrm{M}\Omega$
Dielectric Strength:	>2.0kVac	>2.0kVac	>1.0kVac
Operating Temp. Range:	-20°C to +70°C	–20°C to +70°C	−20°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)	Protection Classification: IP68 EN60529-1:1992 + A2:2013. (Micro switch not sealed) (10m for 2 weeks)
Operations Mechanical: Electrical:	1,000,000 (min) 35,000 (min)	1,000,000 (min) 35,000 (min)	1,000,000 (min) 30,000 (min)
Operating Pressure:	12.5N (typ)	4.7N (typ)	7.5N (typ)
Rear Nut Fixing Torque:	1.13Nm	0.57Nm	0.57Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	Glass Filled Nylon Brass, Tin Plated Brass	Glass Filled Nylon Brass, Tin Plated Brass	Glass Filled Nylon Brass, Tin Plated Brass
Contacts:	Fine Silver	Fine Silver	Brass, Silver Plated, Silver
Thread size:	1.0" x 26TPI	0.747" x 26TPI	0.747" x 26TPI
RoHS	Compliant	Compliant	Compliant

Stainless Steel Large Diameter Vandal Resistant

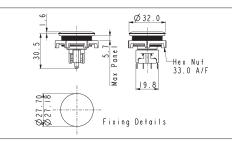


Front Panel Mounting - Low Profile



MP0050

- Front Panel Sealed to IP68
- Flush button32.0mm diam 32.0mm diameter
- O S.P.C.O. switching
- Momentary action
- O 5A, 250Vac



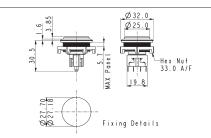
Front Panel Mounting - Protruding Profile



MP0050/2

- Front Panel Sealed to IP68

- Protruding button32.0mm diameterS.P.C.O. switching
- O Momentary 5A, 250Vac Momentary action



Specifications	MP0050	MP0050/2
Terminations:	Solder Tags	Solder Tags
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	5A, 250Vac. 2A, 28Vdc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	$>10^3 \mathrm{M}\Omega$	$>10^3 \mathrm{M}\Omega$
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	-20°C to +70°C	-20°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations Mechanical: Electrical:	1,000,000 (min) 35,000 (min)	1,000,000 (min) 35,000 (min)
Operating Pressure:	4.7Nm	4.7N (typ)
Rear Nut Fixing Torque:	0.57Nm	0.57Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	Glass Filled Nylon Brass, Tin Plated Stainless Steel	Glass Filled Nylon Brass, Tin Plated Stainless Steel
Contacts:	Fine Silver	Fine Silver
Thread size:	M27 x 1.0-6H	M27 x 1.0-6H
RoHS	Compliant	Compliant

Stainless Steel Domed Vandal Resistant

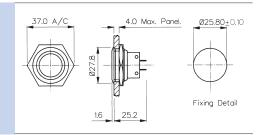


Front Panel Mounting



MP0027/3

- O 28mm diameter
- O Domed Profile
- S.P.C.O. Mic5A, 250Vac S.P.C.O. Microswitch

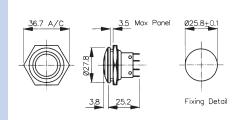


Front Panel Mounting



MP0038/3 Sealed to IP66

- Front Panel Sealed to IP66
- 28mm diameterDomed Profile 28mm diameter
- O S.P.C.O. Microswitch
- O 5A, 250Vac



Specifications	MP0027/3	MP0038/3
Terminations:	Solder Tags	Solder Tags
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	5A, 250Vac. 2A, 28Vdc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	$>10^3 \mathrm{M}\Omega$	$>10^3 \mathrm{M}\Omega$
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	–20°C to +70°C	-20°C to +70°C
Sealing (Front of panel only):		Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations Mechanical: Electrical:	1,000,000 (min) 35,000 (min)	1,000,000 (min) 35,000 (min)
Operating Pressure:	7.5N (typ)	12.5N (typ)
Rear Nut Fixing Torque:	2.5Nm	1.13Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	Glass Filled Nylon Brass, Tin Plated Stainless Steel	Glass Filled Nylon Brass, Tin Plated Stainless Steel
Contacts:	Fine Silver	Fine Silver
Thread size:	1.0" x 26TPI	0.747" x 26TPI
RoHS	Compliant	Compliant

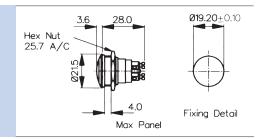
Stainless Steel Domed Vandal Resistant



Front Panel Mounting



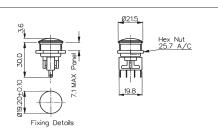
- Front Panel Sealed to IP68
- 21.5mm diameter
- O Domed Profile
- O S.P. Push to Make
- 1A, 50Vac/dc



Front Panel Mounting



- Front Panel Sealed to IP66
- 21.5mm diameter
- O Domed Profile
- O S.P.C.O. Microswitch
- O 5A, 250Vac



Specifications	MP0037/3	MP0031/3
Terminations:	Screw Terminals	Solder Tags
Switching:	S.P. Push to make Momentary action	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	1A, 50Vac/dc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	$>10^5 \mathrm{M}\Omega$	>10³ MΩ
Dielectric Strength:	>1.0kVac	>2.0kVac
Operating Temp. Range:	-20°C to +70°C	-20°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP68 EN60529-1:1992 + A2:2013. (Micro switch not sealed) (10m for 2 weeks)	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations Mechanical: Electrical:	1,000,000 (min) 35,000 (min)	1,000,000 (min) 35,000 (min)
Operating Pressure:	7.5N (typ)	4.7N (typ)
Rear Nut Fixing Torque:	2.5Nm	0.57Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	Glass Filled Nylon Brass, Tin Plated Stainless Steel	Glass Filled Nylon Brass, Tin Plated Stainless Steel
Contacts:	Brass, Silver Plated, Silver	Fine Silver
Thread size:	0.747" x 26TPI	0.747" x 26TPI
RoHS	Compliant	Compliant

Stainless Steel Prominent Button Vandal Resistant

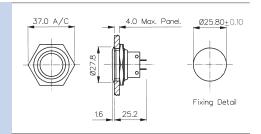


Front Panel Mounting



MP0027/2

- O 28mm diameter
- 0 Prominent Button
- S.P.C.O. Microswitch
- O 5A, 250Vac

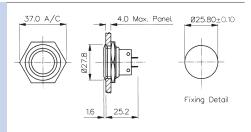


Front Panel Mounting



MP0038/2 Sealed to IP66

- Front Panel Sealed to IP66
- O 28mm diameter
- O Prominent Button
- O S.P.C.O. Microswitch
- O 5A, 250Vac



Specifications	MP0027/2	MP0038/2
Terminations:	Solder Tags	Solder Tags
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	5A, 250Vac 2A, 28Vdc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	$>10^3 \text{M}\Omega$	>10³ MΩ
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	–20°C to +70°C	-20°C to +70°C
Sealing (Front of panel only):		Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations Mechanical: Electrical:	1,000,000 (min) 35,000 (min)	1,000,000 (min) 35,000 (min)
Operating Pressure:	7.5N (typ)	12.5N (typ)
Rear Nut Fixing Torque:	2.5Nm	1.13Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	Glass Filled Nylon Brass, Tin Plated Stainless Steel	Glass Filled Nylon Brass, Tin Plated Stainless Steel
Contacts:	Fine Silver	Fine Silver
Thread size:	1.0" x 26TPI	1.0" x 26TPI
RoHS	Compliant	Compliant

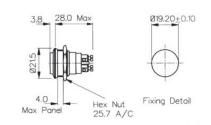
Stainless Steel Prominent Button Vandal Resistant



Front Panel Mounting



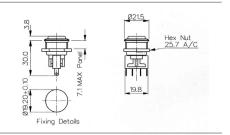
- O Front Panel Sealed to IP68
- 21.5mm diameter
- O Prominent Button
- S.P. Push to Make
- 1A, 50Vac/dc



Front Panel Mounting



- O Front Panel Sealed to IP66
- O 21.5mm diameter
- Prominent Button
- S.P.C.O. Microswitch5A, 250Vac



Specifications	MP0037/2	MP0031/2
Terminations:	Screw Terminals	Solder Tags
Switching:	S.P. Push to make Slow momentary action	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	1A, 50Vac/dc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	$>10^5 \mathrm{M}\Omega$	$>10^3 \text{M}\Omega$
Dielectric Strength:	>1.0kVac	>2.0kVac
Operating Temp. Range:	-20°C to +70°C	-20°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP68 EN60529-1:1992 + A2:2013. (Micro switch not sealed) (10m for 2 weeks)	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations Mechanical: Electrical:	1,000,000 (min) 35,000 (min)	1,000,000 (min) 35,000 (min)
Operating Pressure:	7.5N (typ)	4.7N (typ)
Rear Nut Fixing Torque:	0.57Nm	0.57Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	Glass Filled Nylon Brass, Tin Plated Stainless Steel	Glass Filled Nylon Brass, Tin Plated Stainless Steel
Contacts:	Brass, Silver Plated, Silver	Fine Silver
Thread size:	0.747" x 26TPI	0.747" x 26TPI
RoHS	Compliant	Compliant

Switches

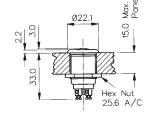
Push Button



Front Panel Mounting



- Proud Fitting
- 22mm diameter \bigcirc
- ŏ S.P. Push to Make
- 1A, 50V
- Brass, Chrome Plated Body, MP0033 Internally Sealed
 - Stainless Steel Button



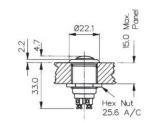


Front Panel Mounting



MP0013/2 MP0033/2

- Prominent Button
- 22mm diameter \Diamond
- ŏ S.P. Push to Make
- 1A, 50V
- Brass, Chrome Plated Body, Stainless Steel Button
- MP0033/2 Internally Sealed





Specifications	MP0013, MP0033	MP0013/2, MP0033/2

Screw Terminals Terminations: Switching: S.P. Push to make S.P. Push to make Slow momentary action

Max. Rating: 1A, 50Vac/dc

Contact Resistance: <15 $m\Omega$ ${<}15m\Omega$ Insulation Resistance: $>10^4~M\Omega$ $>10^4~M\Omega$ Dielectric Strength: >2.5kVac >2.5kVac

Operating Temp. Range: -20°C to +85°C -20°C to +85°C

MP0033/2 only - internally sealed MP0033 only - internally sealed (Front of panel only): against ingress of water and dust against ingress of water and dust

Materials Mouldings:

Glass Filled Nylon Tags/Terminations: Brass, Silver Plated Body: Brass, Chrome Plated Switch Body & Button: Button: Stainless Steel

Copper, Silver Plated

Contacts: 0.747" x 26TPI Thread Size:

RoHS Compliant Compliant

Screw Terminals

Slow momentary action

1A, 50Vac/dc

Glass Filled Nylon Brass, Silver Plated Body: Brass, Chrome Plated Button: Stainless Steel

Copper, Silver Plated

0.747" x 26TPI

Stainless Steel - Momentary

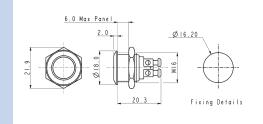


Flush Profile



MP0042/1

- 18mm bezel diameter
- 16mm panel hole
- S.P. Push to make
- O Polished finish
- O 2A, 48Vdc

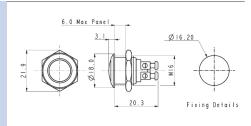






MP0042/2

- 18mm bezel diameter
- 16mm panel hole
- O S.P. Push to make
- O Polished finish
- O 2A, 48Vdc

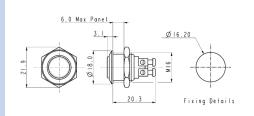


Prominent Button



MP0042/3

- O 18mm bezel diameter
- 16mm panel hole
- O S.P. Push to make
- O Polished finish
- O 2A, 48Vdc



Specifications	MP0042/1	MP0042/2	MP0042/3
Terminations:	Screw Terminals	Screw Terminals	Screw Terminals
Switching:	S.P. Push to make	S.P. Push to make	S.P. Push to make
Max. Rating:	2A, 48Vdc	2A, 48Vdc	2A, 48Vdc
Contact Resistance:	50mΩ at 1A, 2V	50mΩ at 1A, 2V	50mΩ at 1A, 2V
Insulation Resistance:	>10 ³ MΩ @ 500Vdc	>10 ³ MΩ @ 500Vdc	>10³ MΩ @ 500Vdc
Dielectric Strength:	>2.0kVac	>2.0kVac	>2.0kVac
Operating Temp. Range:	-20°C to +55°C	–20°C to +55°C	-20°C to +55°C
Operations Mechanical: Electrical:	1,000,000 (min) 100,000 (min)	1,000,000 (min) 100,000 (min)	1,000,000 (min) 100,000 (min)
Rear Nut Fixing Torque:	12Nm	12Nm	12Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	Nylon Brass, Silver Plated Stainless Steel (Polished)	Nylon Brass, Silver Plated Stainless Steel (Polished)	Nylon Brass, Silver Plated Stainless Steel (Polished)
Contacts:	Silver	Silver	Silver
Thread size:	Gold Plated Brass version available	Gold Plated Brass version available	Gold Plated Brass version available
Sealing:	IP65	IP65	IP65
Impact Rating:	IK08	IK08	IK08
RoHS	Compliant	Compliant	Compliant

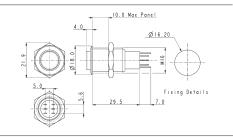
Stainless Steel - Momentary







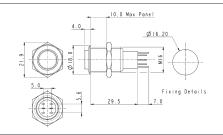
- O 18mm bezel diameter
- 16mm fixing hole diameterD.P.C.O
- O 250V ac

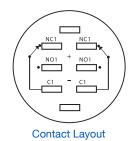


Prominent Button



- O 18mm bezel diameter
- 16mm fixing hole diameter○ D.P.C.O○ 250V ac





Specifications	MP0045/1D0NN000/Sealing	MP0045/3D0NN000/Sealing
Terminations:	Solder tags	Solder tags
Switching:	D.P.C.O Momentary Action	D.P.C.O Momentary Action
Sealing: Part No.	IP67 IP40 /S BLANK	IP67 IP40 /S BLANK
Max. Rating:	250V ac	250V ac
Contact Resistance:	50mΩ max. @ 1A, 2V	50mΩ max. @ 1A, 2V
Insulation Resistance:	>10 ³ MΩ @ 500Vdc	>10 ³ MΩ @ 500Vdc
Dielectric Strength:	> 2.0kVac	> 2.0kVac
Operating Temp. Range:	–20°C to +55°C	-20°C to +55°C
Operations Mechanical: Electrical:	200,000 (min) 30,000 (min)	200,000 (min) 30,000 (min)
Rear Nut Fixing Torque:	12Nm	12Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	Nylon Brass, Silver Plated Stainless Steel	Nylon Brass, Silver Plated Stainless Steel
Contacts:	Silver	Silver
Variants:	Nickel Plated Brass version available Details on request	Nickel Plated Brass version available Details on request
RoHS	Compliant	Compliant

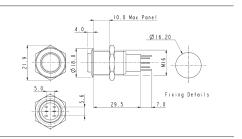
Stainless Steel - Latching







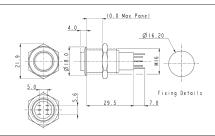
- O 18mm bezel diameter
- 16mm fixing hole diameterD.P.C.O.
- 250V ac

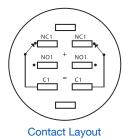


Prominent Button



- O 18mm bezel diameter
- 16mm fixing hole diameter○ D.P.C.O.○ 250V ac





Specifications	MP0045/1E0NN000/Sealing	MP0045/3E0NN000/Sealing
Terminations:	Solder Tags	Solder Tags
Switching:	D.P.C.O Latching Action	D.P.C.O Latching Action
Sealing: Part No.	IP67 IP40 /S BLANK	IP67 IP40 /S BLANK
Max. Rating:	250V ac	250V ac
Contact Resistance:	50mΩ max. @ 1A, 2V	50mΩ max. @ 1A, 2V
Insulation Resistance:	$>$ 10 3 M Ω @ 500Vdc	>10³ MΩ @ 500Vdc
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	−20°C to +55°C	-20°C to +55°C
Operations Mechanical: Electrical:	200,000 (min) 30,000 (min)	200,000 (min) 30,000 (min)
Rear Nut Fixing Torque:	12Nm	12Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	Nylon Brass, Tin Plated Stainless Steel (Polished)	Nylon Brass, Tin Plated Stainless Steel (Polished)
Contacts:	Silver	Silver
Thread size:	Nickel Plated Brass version Details on request	Nickel Plated Brass version Details on request
RoHS	Compliant	Compliant

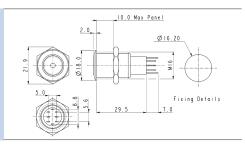
Stainless Steel Illuminated Momentary



Front Panel Mounting



- Dot Illuminated
- 18mm bezel diameter
- D.P.C.O.
- ŏ 3A, 250V ac
- Red, Green, Amber or Blue Illumination
- Separate LED Terminals



Front Panel Mounting



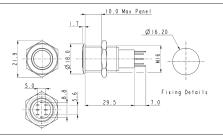
- Ring Illuminated
- 18mm bezel diameter
- D.P.C.O.
- ŏ 3A, 250V ac
- Red, Green, Amber or Blue

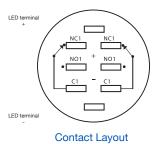
Brass, Silver Plated

Compliant

Stainless Steel (Polished)
Prominent Button, details on request

- Illumination
- Separate LED Terminals





CO	ilaci	ιLay

Specifications	MP0045/1D1/Colour/Voltage/Sealing	MP0045/1D2/Colour/Voltage/Sealing
Terminations:	Solder Tags	Solder Tags
Illumination:	Dot	Ring
Switching:	D.P.C.O. Momentary Action	D.P.C.O. Momentary Action
Sealing: Part No.	IP67 IP40 /S BLANK	IP67 IP40 /S BLANK
Max. Switch Rating:	3A, 250Vac	3A, 250Vac
LEDs Colours Part No.	Red Green Amber Blue /RD /GN /AM /BL	Red Green Amber Blue /RD /GN /AM /BL
Voltage Part No.	12Vdc 220Vdc /012 /220	12Vdc 220Vdc /012 /220
Contact Resistance:	50mΩ max. @ 1A, 2Vdc	50mΩ max. @ 1A, 2Vdc
Insulation Resistance:	>10³ MΩ @ 500Vac	>10³ MΩ @ 500Vac
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	-20°C to +55°C	-20°C to +55°C
Operations Mechanical: Electrical:	200,000 (min) 30,000 (min)	200,000 (min) 30,000 (min)
Rear Nut Fixing Torque:	12Nm	12Nm
Materials Mouldings:	Nylon	Nylon

Brass, Silver Plated

Compliant

Stainless Steel (Polished) Prominent Button, details on request

Switch Body & Button:

Variants RoHS

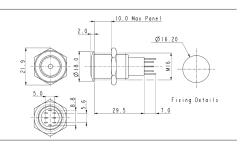
Stainless Steel Illuminated Latching



Front Panel Mounting



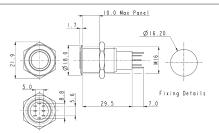
- Dot Illuminated
- 18mm bezel diameter
- D.P.C.O.
- 3A, 250V ac
- Red, Green, Amber or Blue Illumination
- Separate LED Terminals

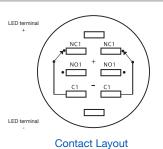


Front Panel Mounting



- Ring Illuminated
- 18mm bezel diameter
- D.P.C.O.
- 3A, 250V ac
- Red, Green, Amber or Blue Illumination
- Separate LED Terminals





Specifications	MP0045/1E1/Colour/voltage/Sealing	MP0045/1E2/Colour/voltage/Sealing
Terminations:	Solder Tags	Solder Tags
Illumination:	Dot	Ring

Switching: D.P.C.O. Latching Action D.P.C.O. Latching Action

IP40 IP40 Sealing: IP67 IP67 BLANK BLANK Part No. /S 3A, 250Vac Max. Switch Rating: 3A, 250Vac

LEDs

Red Blue Red Green Amber Blue Colours Green Amber Part No. /RD /GN /AM /BL /RD /GN /AM /BL

12Vdc 220Vdc 12Vdc 220Vdc Voltage Part No. /012 /220 /012 /220

Contact Resistance: 50mΩ max. @ 1A, 2Vdc 50mΩ max. @ 1A, 2Vdc >103 MΩ @ 500Vac Insulation Resistance: >103 MΩ @ 500Vac

Dielectric Strength: >2.0kVac >2.0kVac

-20°C to +55°C -20°C to +55°C Operating Temp. Range:

Operations

200,000 (min) 200,000 (min) Mechanical: 30,000 (min) 30,000 (min) Electrical:

Rear Nut Fixing Torque: 12Nm 12Nm

Materials Mouldings:

Nylon Nylon Brass, Silver Plated Brass, Silver Plated Tags: Switch Body & Button: Stainless Steel (Polished) Stainless Steel (Polished) Prominent Button, details on request Prominent Button, details on request Variants

RoHS Compliant Compliant

Vandal Resistant Switches



Manufactured from Stainless Steel, Bulgin's extensive range of vandal resistant security switches are designed with a high resistance to wear and tear, corrosion and harsh use in potentially hostile environments such as access control applications.

- Front and rear panel mounted versions
- Vandal switches available in prominent, domed and low profile
- Various switching options such as latching, push on - push off, action.
- O IP66, 68 front panel sealing options
- O Dot and ring LED illuminated versions
- Illumination voltages 6, 12 and 24V sources,
- Variety of illumination colours and are now available with front and rear of panel sealing options.







H8300RP - - -

Key Features

- Momentary or latching
- O Ratings up to 12(12) @ 250Vac
- O Single and double pole
- Stainless steel button & bezel
- Vandal resistant construction
- Choice of body styles
- 19.2mm or 22.5mm mounting holes
- Front panel sealed to IP66
- Raised, flat or domed actuator options

Approvals and specifications

16(4)A 250Vac T85, 1E4 (10,000 Operations)
 12(12)A 250Vac T105, 1E4 (10,000 Operations)
 8(8)A 250Vac T105, 5E4 (50,000 Operations)
 6(6)A 250Vac T125, 5E4 (50,000 Operations)

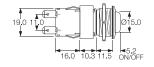
%1 12A 250Vac DP, 13A 250Vac SP 250Vac 1hp, 125Vac 1/2hp UL 85°C, file E45221, CSA file LR10990

In house test: 10(10)A 250Vac—Indicative rating only

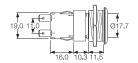
3mm contact gap.
Technical data on pages 4 & 5 (switches), 6 (indicators).

Dimensions

8300RP (H terminals shown)









Terminal	Function	Actuator	Body Code
C H	8300 (alternate) Single pole ON - OFF	R (for P body only) Raised top (stainless steel)	
K T	8301 (momentary ON) Single pole ON - OFF		
2.6 T	8350 (alternate) Double pole ON - OFF	Flat top (stainless steel)	(for R actuator only) Stainless steel, Soft profile bezel
V X 1, 1, 1, 1, 2, 3, 4,5	8301 (momentary ON) Single pole ON - OFF		Ø19.2
		P Domed top (stainless steel)	M Stainless steel
			022.5

0911 Vandal Resistant Switches

Designed to IP66





Key Features

- Snap action switches
- Ratings up to 16A, 250Vac
- Round and rectangular buttons
- Single Pole C/O Switch

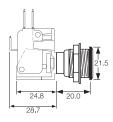
Approvals and specifications

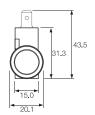
% 16A 125/250Vac 3/4hp T85 50E3 125V 1/2 HP, 250V 3/4 HP, 0.4A 125Vdc, 0.2A 250Vdc

Approvals apply to switch mechanism only. $\boldsymbol{\mu}$ contact gap.

Dimensions

C0911VA





Terminal	Function	Actuator	Body Code
0 12.0	0911 (momentary) ON - ON	V Flat top (stainless steel)	Stainless steel Chamfer profile bezel Value 19.2 Panel cut-out Panel thickness up to 8.0mm

Push Button Switches



Bulgin's broad line of pushbutton switches are available in various sizes and configurations. This includes a variety of illumination and terminal options as well as several with high inductive power ratings suitable for motor driven applications. These switches can be found in many markets including home appliances, commercial, medical, audio and security.

- Miniature, round and rectangular push button switches available
- Ratings up to 16A, 250V ac 12(12)A 250V ac rating also available
- Latching and momentary actions
- Choice of actuators (custom option also available)
- Square and Round Mounting Styles



Push Button

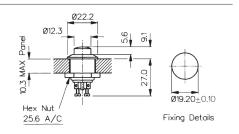


Front Panel Mounting



MP0012/Col

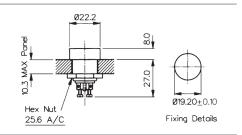
- 22mm diameter
- Prominent Button
- S.P. Push to Make
- O Screw Terminals
- Brass, Chrome Plated Body, Glass Filled Nylon Button



Front Panel Mounting



- MP0012/1/Col
- 22mm diameter
- \Diamond Recessed Button
- O S.P. Push to Make
- Screw Terminals
- Brass, Chrome Plated Body, Glass Filled Nylon Button

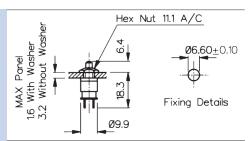


Rear Panel Mounting



MP0016

- S.P. Push to Make
- Solder Tags
- 0 1A, 28Vac/dc
- Brass Nickel Plated Body, Glass Filled Nylon Button



Specifications	MP0012/Colour	MP0012/1/Colour	MP0016/Colour
Terminations:	Screw Terminals	Screw Terminals	Solder Tags
Switching:	S.P. Push to Make Slow Momentary Action	S.P. Push to Make Slow Momentary Action	S.P. Push to Make Slow Momentary Action
Max. Rating:	0.25A. 250Vac, 1A. 110Vac, 2A. 12Vac/dc	0.25A. 250Vac, 1A. 110Vac, 2A. 12Vac/dc	1A 28Vac/dc (non-inductive)
Contact Resistance:	<15mΩ	<15mΩ	<15mΩ
nsulation Resistance:	$>10^4 \mathrm{M}\Omega$	$>10^4 M\Omega$	$>10^4 M\Omega$
Dielectric Strength:	>2.5kVac	>2.5kVac	>2.0kVac
perating Temp. Range:	–20°C to +85°C	–20°C to +85°C	-20°C to +85°C
peration Pressure (typ):	9.18 newtons	9.18 newtons	6.22 newtons
Materials Moulding: Body:	Glass Filled Nylon Brass, Brass, Chrome Plated	Glass Filled Nylon Brass, Brass, Chrome Plated	Glass Filled Nylon Brass, Brass, Chrome Plated
Contacts/Terms:	Brass, Silver Plated	Brass, Silver Plated	Brass, Silver Plated
'ariant	Button Colour: Standard - Black, /RD (Red)	Button Colour: Standard - Black, /RD (Red)	Button Colour: Standard - Black, /RD (Red)
RoHS	Compliant	Compliant	Compliant

8300 Series Push Button

8(8)A 250Vac & 12(12)A 250Vac





Key Features

- Miniature push button
- O 8A Inductive current rating
- Ratings up to 12(12)A, 250V ac (H suffix)
- O Illuminated and nonilluminated
- O Single and double pole
- Latching and momentary
- Slotted actuator for custom buttons

- Industry standard panel cutout
- O Panel cut out: 19.3 x 12.9

Approvals and specifications

16(4)A 250Vac T85, 1E4 (10,000 Operations) 12(12)A 250Vac T105, 1E4 (10,000 Operations) 8(8)A 250Vac T105, 5E4 (50,000 Operations) 6(6)A 250Vac T125, 5E4 (50,000 Operations)

%1 8 8350, 8351, 8353, 8354 12A 250Vac DP, 250Vac 1hp, 125Vac 1/2hp

> 8300, 8301, 8303, 8304 13A 250Vac SP, 250Vac 1hp, 125Vac 1/2hp

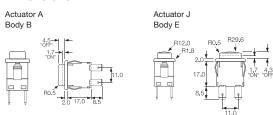
UL 85°C, file E45221, CSA file LR10990

In house test: 10(10)A 250Vac—Indicative rating only 3mm contact gap.

Terminal	Function	Actuator	Body Code	Body Colour
С	Approvals & ratings vary with function Single pole switches use terminals 1 & 2 (& 3)		Panel cut-out ** Bezel	
6.3 x 0.8	8300 Single Pole ON - OFF	A Standard actuator	B Standard body	B Black
н А	8301 Single Pole ON - OFF (momentary ON)	H Slotted for custom caps	E	W White
8.5 As Hr but right angle 4.8 x 0.8	8303 Single Pole ON - OFF With Light	Slots for snap-in buttons C Square actuator	Softline style body with radiused bezel	
	8304 Single Pole ON - OFF (momentary ON) with light	E	12.9 15.0 Cut-outs must be punched in the direction of insertion	
K 2.6 1.8.5	8350 Double pole ON - OFF	Radiused actuator	Dimensions for snap-in fixing Panel thickness Dimension X	
* - 15 28×0.8	8351 Double pole ON - OFF (momentary ON)	F Small round actuator	0.75-1.24 19.1/19.2 1.25-1.99 19.3/19.4 2.00-3.00 19.7/19.8 X and V PCB terminals. Additional dummy terminals may be supplied for extra support.	
т	8353 Double pole ON - OFF With light	J Smooth curved actuator	for extra support.	
2.6 7.0 2.6 1.5 Solder	8354 Double pole ON - OFF (momentary ON) with light	M		
X V	8355 Single pole ON - OFF Isolated light - switched			
4.5 TO	C, E & M actuators only 8356 Single pole ON - OFF	Large round actuator		
	Isolated light - unswitched C, E & M actuators only	All actuators except H available lit		



Dimensions



Examples







⊞ H8353JE - - -⊞ T8353JE - - -



ш Н8353EB - - ш Т8353EB - - -



☐ H8353CB - - -☐ T8353CB - - -

Actuator Colour	Lamp Voltage	Legend	Legend Colour	Options
LIT				
A Amber C Clear	None 2 125V Neon			H 12(12)A 250Vac switch rating Finish Matt finish standard except on J and D actuators which are gloss Colour Call sales for custom colours A full range is available for large orders
G Green	3 250V Neon			Legend printing Select from the examples or call sales for custom legends.
R Red	7 12V Filament			Special buttons Some of the many options are shown Call sales for the full range
UNLIT	8 24V Filament			L167 Protective cover
B Black				Snaps on to switch bodies fitted with "A" or "J" style actuators, this reduces panel thickness by 0.8mm
W White				BioCote Antimicrobial Additive Moulded components have antimicrobial properties using BioCote silver ion technology.

8200 Series Push Button

8(8)A 250Vac & 12(12)A 250Vac





Key Features

- O Miniature push button
- 8A Inductive current rating
- Ratings up to 12(12)A, 250V ac (H suffix)
- Without button
- O Sub panel mount
- O Push on, solder or PCB terminals
- Latching and momentary

Approvals and specifications

** 16(4)A 250Vac T85, 1E4 (10,000 Operations) 12(12)A 250Vac T105, 1E4 (10,000 Operations) 8(8)A 250Vac T105, 5E4 (50,000 Operations) 6(6)A 250Vac T125, 5E4 (50,000 Operations)

12A 250Vac 250Vac 1hp, 125Vac 1/2hp \$\mathbb{\text{UL}} \& \text{UL} \& \text{85}^{\circ}\text{C}, \text{file} \& \text{E45221}, \text{CSA} \& \text{file} \& \text{LR10990} \end{array}

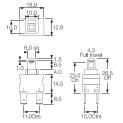
3mm contact gap.

Terminal	Function	Actuator	Body Code
C 10.1 10.1	Approvals & ratings vary with function Single pole switches use terminals 1 & 2 (& 3) 8200 Single Pole ON - OFF	A Standard actuator for snap-on custom adaptors	A Standard body
A	8201	Flat top actuator	C As standard body but with side support peg for use with M PCB terminals
2.6	8201 Single Pole ON - OFF (momentary ON)	Examples of possible actuation methods Using a Snap on adaptor	X and V PCB terminals. Additional dummy terminals may be supplied for extra support.
T V 2.6	8250 Double Pole ON - OFF	Using a Hinged Actuator	
X 4.5	8251 Double Pole ON - OFF (momentary ON)		

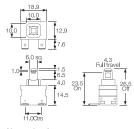


Dimensions

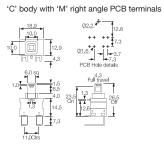
'A' body with 'H' 4.8 terminals

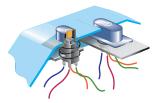


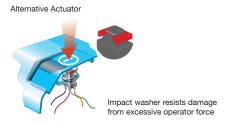
Example of possible mounting styles



'A' body with 'A' right angle 4.8 terminals







Examples



C8250AA - - - with impact washer M1226



X8201AA - - -



₩ K8200AA - - -



A8200AA - - -



□M8200AC - - -



Example of M8200AC

7000 Series Push Button

16A 250Vac





Key Features

- Round and rectangular push button switches
- Ratings up to 16A, 250V ac
- Latching and momentary
- Illuminated & non-illuminated
- Matching indicators
- O Low profile version
- Panel cut outs: 25.0 dia 27.2 x 22.3

Approvals and specifications

16(4)A 250Vac T125 8(8)A 250Vac T85

N UL CSA 16A Non Ind, 250Vac 1hp, 125Vac 1/2hp UL 65°C, file no. E45221, CSA file no. LR10990

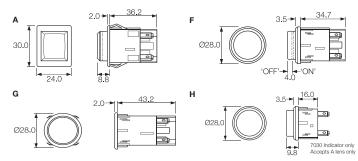
3mm contact gap.

Terminal Function Actuator Body Code C C A Food district shows to stray, say with horder and a finite district. The control of the cont			25.0 dia 27.2 x 22.3		
TOOD Single Pole On OFF TOOD Single Pole (incrementary) with Indian and a state of the state of	Terminal	Function	A	Actuator	Body Code
	C 63x0.8 H	7000 Single Pole ON - OFF 7001 Single Pole (momentary) ON - OFF 7004 Single Pole (momentary) vith light ON - OFF 7050 Double Pole (momentary) vith light ON - OFF 7053 Double Pole with light ON - OFF 7054 Double pole (momentary ON) ON - OFF 7054 Double pole (momentary ON) ON - OFF 7056 Double pole vith light ON - OFF 7057 7058 Tobal Double Pole vith light ON - OFF 7059 Tobal Double Pole vith light ON - OFF 7051 Tobal Double Pole vith light ON - OFF 7053 Tobal Double Pole vith light ON - OFF 7054 Double pole (momentary ON) OFF 7056 Tobal Double Pole vith light ON - OFF 7057 Tobal Double Pole (momentary ON) OFF 7059 Tobal Double Pole (momentary ON) OFF 7051 Tobal Double Pole (momentary ON) OFF 7054 Tobal Double Pole (momentary ON) OFF 7056	A Round Food A	d actuator shown in by 021.1 9.7 d actuator in G body d actuator - medium n in F body d actuator - long n in F body d actuator - sub panel t 121.1 121.1 122.1 123.1 124.1 125.1 126.1 126.1 127.	Panel cut-outs F H G Body types fit either cut-out 25.0/25.2 1.7 1.9 21.0 025.0/25.2 A 27.2 27.3 22.3/22.4 Cut-outs must be punched in the direction



Dimensions

Panel thickness: A - 0.8 - 2.5mm F, G, H - 0.8 - 5.0mm



Examples









☐ C7000AF - - -

_ C7003AF - - -

© C7050SA - - -

Body Colour	Actuator Colour	Lamp Voltage	Legend	Legend Colour	Options
		Voltage None 2 125V Neon 3 250V Neon 7 12V Filament 8 24V Filament	Legend	Legend Colour	Finish Matt finish is standard on bodies. Gloss finish is standard on actuators. Colour Call sales for custom colours. A full range is available for large orders. Legend printing A wide range is available or call sales for custom legends. Lamp voltage Call sales for details of available voltages. Weatherproof housing (E) Additional housing which fits round body switches with an oversize housing with a clear silicone cover designed to IP65. Mounting hole dia: 38.0mm

0911 Push Button Switches 0.5A 250Vac





Key Features

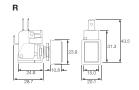
- Snap action switches
- Ratings up to 16A, 250Vac
- O Round and rectangular buttons

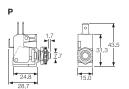
Approvals and specifications

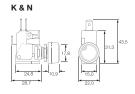
% 16A 125/250Vac 3/4hp T85 50E3 125V 1/2 HP, 250V 3/4 HP, 0.4A 125Vdc, 0.2A 250Vdc

Approvals apply to switch mechanism only. μ contact gap.

Dimensions







Terminal	Function	Actuator	Body Code	Options
0 12.0	0911 (momentary) ON - ON	R Rectangular bezel P Short	Panel Cut-out Panel thickness Both nuts 2.5mm No backnut 4.0mm	Call factory for custom colours
		K with satin chrome bezel		
		N with nylon bezel		







Key Features

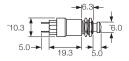
- O Self wiping contacts
- O Slow make & break
- Momentary action
- Choice of switch circuits
- Choice of actuators

Approvals and specifications

In house test: 0.5A 250Vac T85 — Indicative rating only

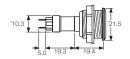
Dimensions

Dimensions (mm) Nylon S and L actuators





Stainless steel V actuator (IP66)



Neck thread - 26 TPI Whit. Actuator travel - 2.5 max

Terminal	Function	Actuator	Body Code	Options
3.3 5.0 1.2 Solder	O916 Black base SP ON - OFF (momentary) O917 50V only Prown base SP ON - OFF (momentary 1 side) O918 White base SP ON - OFF (momentary OFF) O919 Black base DP ON - OFF (momentary 1 side) O920 White base DP ON - OFF (momentary 1 side)	S Small Actuator L Large Actuator V Vandal Resistant IP66 Flattop Stainless Steel	Panel Cut-out (L & S Actuators) Panel thickness Both nuts - 2.5mm No Backnut - 4.0 Panel Cut-out (Stainles Steel V Actuator) Panel thickness - 8.0mm	Finish Gloss finish for L and S actuators. Colour Call sales for custom colours. A full range is available for large orders.

Voltage Selectors

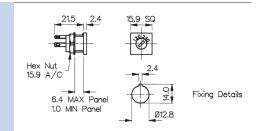


120/140V Voltage Selector



VS0001

- 2.8 series tabs/solder tags
- O Square Front Bezel
- 6.3A
- CSA & VDE approvals

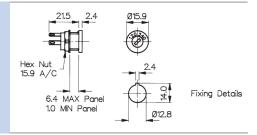


120/140V Voltage Selector

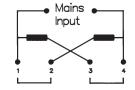


VS0002

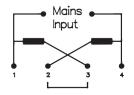
- O 2.8 series tabs/Solder tags
- O Roun
 O 6.3A Round Front Bezel
- CSA & VDE approvals



Connection Parallel 120V



Connection Series 240V



Specifications	VS0001	VS0002
Max. Rating:	6.3A, 120 / 240	6.3A, 120 / 240
Insulation Resistance:	>106 MΩ	>106 MΩ
Termination:	2.8 series tabs/solder tags	2.8 series tabs/solder tags
Temperature Range:	-20°C to +85°C	-20°C to +85°C
Materials: Mouldings: Tags:	Glass Filled Nylon UL94V-1 Brass, Silver Plated	Glass Filled Nylon UL94V-1 Brass, Silver Plated
Contacts:	Copper Silver Alloy	Copper Silver Alloy
Approvals:	®	⚠ ⑤
Variants:	Other markings, details on request	Other markings, details on request
RoHS		Compliant

Capacitive Switches



Activated by the touch of a finger, our Capacitive Switches are ideal for many repetitive applications requiring a rugged sealed and easy to use switch solution.



- O Sealed to IP68 and IP69K
- O Momentary or latching functions
- O Large or thin ring illumination options
- O Long life operation 50 million of cycles
- O 16, 19, 22 or 25mm diameter options
- O Easy to use and clean
- O Extremely robust and durable IK10 rated
- O No operating force required ideal for repetitive applications
- O Activated by the touch of a finger even with surgeon gloves
- O Natural, black and red anodised options as well as 316L stainless steels

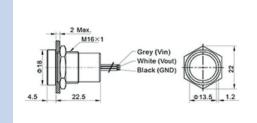
Capacitive Switches - 16mm







- O Illuminated
- 300 mm lead



Specification

Туре

Materials

Maximum Current / Voltage Rating:

Supply Voltage

Contact Resistance

LED state for output image option

Actuating force, typically

Life cycle

MC16

Momentary / Latching

Case: Aluminium, Anodised and Stainless Steel

Multi-wire leads setion 0.22mm² (length 300mm)

10mA 12 VDC

12 VDC

 $20 \text{m}\Omega$

1 LED: The LED is ON when output is closed.

2 LEDS: First colour is ON when the output is open. Second colour is ON when the output is closed.

Zero Newton's (Touch Sensitive)

>50 Million

Panel Cutout Dimensions



Panel cutout: Ø16.20 (.637 DIA)

Environmental Specification

Sealing IP68 (2m depth for >30mins) IP69K

Operating temperature -25°C to +55°C

RoHS Compliant

Circuit Specification

See wiring diagrams on Part No System page

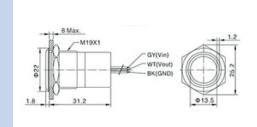
Capacitive Switches - 19mm



19mm Illuminated



- Illuminated
- 300 mm lead



Specification

Туре

Materials

Maximum Current / Voltage Rating:

Supply Voltage

Contact Resistance

LED state for output image option

Actuating force, typically

Life cycle

MC19

Momentary / Latching

Case: Aluminium, Anodised and Stainless Steel

Multi-wire leads setion 0.22mm² (length 300mm)

10mA 12 VDC

12 VDC

 $20 \text{m}\Omega$

1 LED: The LED is ON when output is closed.

2 LEDS: First colour is ON when the output is open. Second colour is ON when the output is closed.

Zero Newton's (Touch Sensitive)

>50 Million

Panel Cutout Dimensions



Panel cutout: Ø16.20 (.637 DIA)

Environmental Specification

Sealing IP68 (2m depth for >30mins) IP69K

Operating temperature -25°C to +55°C

RoHS Compliant

Circuit Specification

See wiring diagrams on Part No System page

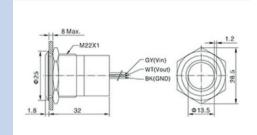
Capacitive Switches - 22mm



22mm Illuminated



- Illuminated
- 300 mm lead



Specification

Туре

Materials

Maximum Current / Voltage Rating:

Supply Voltage

Contact Resistance

LED state for output image option

Actuating force, typically

Life cycle

MC22

Momentary / Latching

Case: Aluminium, Anodised and Stainless Steel

Multi-wire leads setion 0.22mm² (length 300mm)

10mA 12 VDC

12 VDC

 $20 \text{m}\Omega$

1 LED: The LED is ON when output is closed.

2 LEDS: First colour is ON when the output is open. Second colour is ON when the output is closed.

Zero Newton's (Touch Sensitive)

>50 Million

Panel Cutout Dimensions



Panel cutout: Ø16.20 (.637 DIA)

Environmental Specification

Sealing IP68 (2m depth for >30mins) IP69K

Operating temperature -25°C to +55°C

RoHS Compliant

Circuit Specification

See wiring diagrams on Part No System page

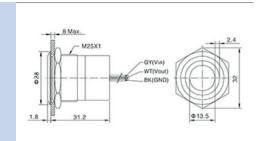
Capacitive Switches - 25mm



25mm Illuminated



- O Illuminated
- 300 mm lead



Specification

Туре

Materials

Maximum Current / Voltage Rating:

Supply Voltage

Contact Resistance

LED state for output image option

Actuating force, typically

Life cycle

MC25

Momentary / Latching

Case: Aluminium, Anodised and Stainless Steel

Multi-wire leads setion 0.22mm² (length 300mm)

10mA 12 VDC

12 VDC

 $20 \text{m}\Omega$

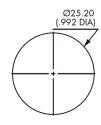
1 LED: The LED is ON when output is closed.

2 LEDS: First colour is ON when the output is open. Second colour is ON when the output is closed.

Zero Newton's (Touch Sensitive)

>50 Million

Panel Cutout Dimensions



Panel cutout: Ø16.20 (.637 DIA)

Environmental Specification

Sealing IP68 (2m depth for >30mins) IP69K

Operating temperature -25°C to +55°C

RoHS Compliant

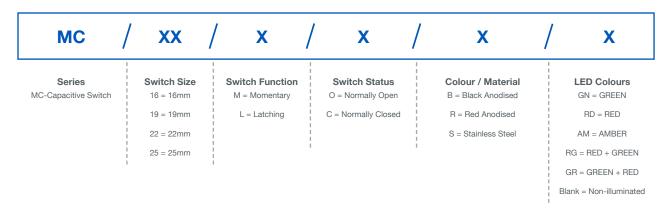
Circuit Specification

See wiring diagrams on Part No System page

Capacitive Switches - Part No System



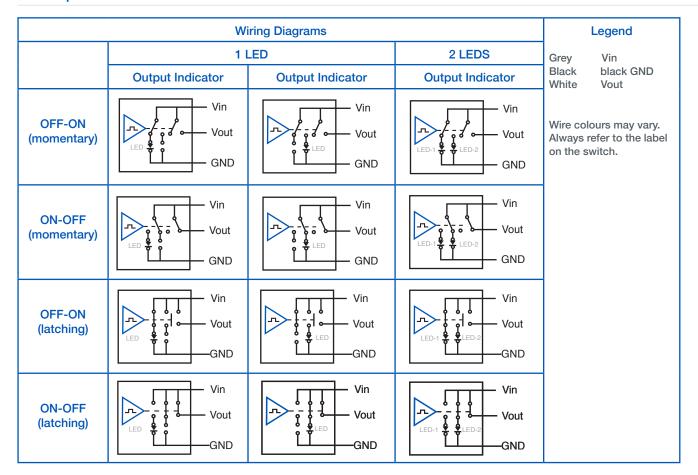
Part No System



Examples:

MC16MOSRD = 16mm, Stainless Steel, Momentary Normally Open, Red Illumination MC22LOBRG = 22mm, Black Anodised, Catching Normally Open, Red and Green Illumination

Circuit Specifications



Other switches are available upon request*



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

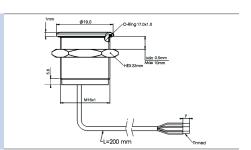


16mm Stainless Steel





- O Non Illuminated
- O 20 cm lead
- O Flathead or Guided profile



Specification

MPZ016

Momentary Туре

Material Stainless Steel

24V AC/DC Maximum Voltage

Switch Resistance "ON" <1Ω

Switch Resistance "OFF" 5ΜΩ

Capacitance 100pF

Switching current

(momentary)

Switching current (prolonged)

Switching pulse time (momentary)

Actuating force, typically

Life cycle

(Aluminium upon request)

1A Max

300 mA

up to 0.3 sec

3-5 N

>10 Million

Environmental Specification

IP68; IP69K Sealing

-40°C to +85C° Operating temperature

Vibration resistance 5-500Hz/9.4m

Shock resistance 75g (g-force)

RoHS Compliant

Circuit Specification

16MM Stainless Steel Non Illuminated



Switch voltage Switch Current Power Supply

24V AC/DC 1A Max 24V AC/DC

Piezo Switches

19mm Stainless Steel

Illuminated and Non Illuminated





Specification	MPZ019, MPZI019				
Туре	Momentary				

Material Stainless Steel (Aluminium upon request)

Maximum Voltage Switch Resistance "ON"

Switch Resistance "OFF"

Capacitance

Switching current (momentary)

Switching current (prolonged)

Switching pulse time

(momentary) LED Illumination

Actuating force, typically

Life cycle

Momentary

24V AC/DC

<1Ω 5ΜΩ

100pF

1A Max

300 mA

up to 0.3 sec

24V AC/DC

3-5 N

>10 Million

Environmental Specification

IP68; IP69K Sealing

Operating temperature

Vibration Resistances

Shock resistance

RoHS

-40°C to +85C°

5-500Hz/9.4m

75g (g-force)

Compliant

Circuit Specification

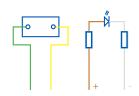
19MM Stainless Steel Non Illuminated



Switch voltage Switch Current Power Supply

24V AC/DC 1A Max 24V AC/DC

19MM Stainless Steel Illuminated



Switch voltage Switch Current Colour* Illuminated Power Supply

24 V AC/DC 1A Max 24V AC/DC 24V AC/DC

Piezo Switches 22mm Stainless Steel





Specification	MDZ022	MD7I022

Type Momentary

Stainless Steel Material

(Aluminium upon request)

Maximum Voltage

Switch Resistance "ON" <1Ω

Switch Resistance "OFF"

Capacitance

Switching current (momentary)

Switching current (prolonged)

Switching pulse time

(momentary)

LED Illumination

Actuating force, typically

Life cycle

MPZI022

24V AC/DC

 $5M\Omega$

100pF

1A Max

300 mA

up to 0.3 sec

24V AC/DC

3-5 N

>10 Million

Environmental Specification

Sealing

Operating temperature

Vibration Resistances

Shock resistance

RoHS

IP68; IP69K

-40°C to +85C°

5-500Hz/9.4m

75g (g-force)

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 colour



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

22MM Stainless Steel Illuminated 2 colour



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

24V AC/DC 24 AC/DC

Piezo Switches

22mm Stainless Steel Flathead

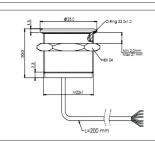


22MM Stainless Steel Illuminated



MPZI022/L

- O Blue Illumination
- 1 colour
- O 20 cm lead



Specification

MPZI022/L

Туре

Material

Power Supply

Switching voltage

48V AC peak/DC

Switch Resistance "ON"

<0.7Ω

Switch Resistance "OFF"

Capacitance

<90pF

Switching current

1A Max

LED Illumination

24V AC/DC

Actuating force, typically

Life cycle

Latching Toggle

Stainless Steel

(Aluminium upon request)

24V AC/DC

 ${>}1000M\Omega$

3-5 N

>10 Million

Environmental specification

Sealing

Operating temperature

Vibration Resistances

Shock resistance

RoHS

IP68; IP69K

-40°C to +85C°

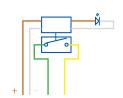
5-500Hz/9.4m

75g (g-force)

Compliant

Circuit Specification

22MM Stainless Steel Latching Toggle Illuminated



Power Supply Switch Voltage Switch Current Max Colour* Illuminated

24V AC/DC 48V AC peak/ DC 1A Max 24V AC/DC



Colour* Illuminated

24V AC/DC

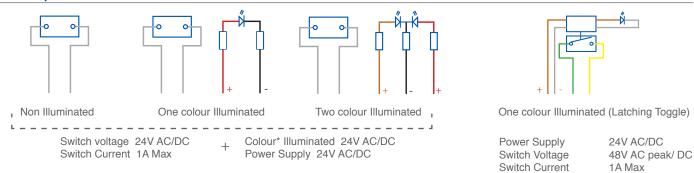
Part No System



Examples:

MPZ022/F = Non Illuminated Piezo, 22mm, Flathead
MPZI022/F/RD/24 = Illuminated Piezo, 22mm, Flathead, Red Illumination, 24 volt
MPZI022/G/BL/24/L = Illuminated Piezo, 22mm, Guided Profile, Blue Illumination, 24 volt, Latching Toggle

Circuit Specifications



Other switches are available upon request*

Miniature Stainless Steel Vandal Resistant

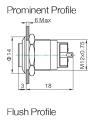


MAV0120



MAV0120

- O Prominent and Flush Profile
- 12mm Diameter
- 2A, 36 dc
- IP67 (Front of Panel Only)





Specification MAV0120/3 MAV0120/1

P - Solder Tabs P - Solder Tabs Terminations: Switching: S.P. Push to make S.P. Push to make Max Rating: 2A, 36Vdc 2A, 36Vdc Contact Resistance: ≥50MΩ ≥50MΩ Insulation Resistance: ≥1000 $M\Omega$ ≥1000MΩ Dielectric Strength: 1500V, AC 50Hz, 5 Secs 1500V, AC 50Hz, 5 Secs

Operating Temp Range: *-25°C ~ +55°C *-25°C ~ +55°C

Operations

Mechanical: 500,000 (min) 500,000 (min) Electrical: 200,000 (min) 200,000 (min)

Sealing (Front of Panel Only) IP67 IP67

Shock Resistance IK08 IK08

Rear Nut Fixing Torque: 0.6Nm 0.6Nm

Materials

Mouldings: PA PΑ

Tags/Terminations: Copper, Gold Plated Copper, Gold Plated

Switch Body & Button: Stainless Steel Stainless Steel

Contacts: Silver Alloy Silver Alloy Thread size: M12x0.75 M12x0.75 RoHS Compliant Compliant

Miniature Stainless Steel Illuminated Vandal Resistant



MAV0120



MAV0120

MAV0120

2A, 36Vdc

/1

/2

/RD

Red

1.8V

15mA

Prominent /3 Flush /1

Dot

Ring

/GN

Green

2.8V

15mA

/BL

Blue

2.8V

15mA

series connected by the user. Voltages as above

/OR

1.8V

15mA

/no suffix - No resistor fitted. An Appropriate resistor must be

Orange

/AM

Yellow

1.8V

15mA

P - Solder Tabs

S.P. Push to make

- O Dot and Ring Illumination
- Prominent and Flush Profile
- 12mm Diameter
- O 2A, 36 dc
- Bright daylight LEDs
- IP67 (Front of Panel Only)

.6 Max









Specification

Terminations:

Switching:

Max Rating:

Profile:

Illumination Type

LED Ratings Part No. Colours

Luminous Intensity Forward Voltage Forward Current

Moulding Current

Illumination Voltage

Contact Resistance: Insulation Resistance: Dielectric Strength:

Operating Temp. Range:

Operations

Mechanical: Electrical:

Shock Resistance

Sealing (Front of Panel Only)

Rear Nut Fixing Torque:

Materials

Mouldings: Tags/Terminations:

Switch Body & Button:

Thread size: M12x0.75 RoHS Compliant

12V /12 /24 24V

≥50MΩ ≥1000MΩ

1500V, AC 50Hz, 5 Secs

*-25°C ~ +55°C

500,000 (min)

200,000 (min)

IP67

IK08

0.6Nm

Copper, Gold Plated Stainless Steel

Contacts: Silver Alloy

210 Switches

Miniature Domed Metal Vandal Resistant



MMP0120

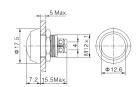
Operations



O Raised Domed Profile ○ 12mm Diameter

○ 2A, 36Vac

○ IP65 or IP67 (Front of Panel Only)









Specification MMP0120/S MMP0120/N

P - Solder Tabs P - Solder Tabs Terminations: S - Screw Terminal S - Screw Terminal

MMP0120

Switching: S.P. Push to make S.P. Push to make Max Rating: 2A, 36Vdc 2A, 36Vdc

Contact Resistance: ≥50MΩ ≥50MΩ Insulation Resistance: ≥1000MΩ ≥1000MΩ

Dielectric Strength: 1500V, AC 50Hz, 5 Secs 1500V, AC 50Hz, 5 Secs

Operating Temp Range: *-25°C ~ +55°C *-25°C ~ +55°C

Mechanical: 500,000 (min) 500,000 (min)

Electrical: 200,000 (min) 200,000 (min)

Sealing (Front of Panel Only) IP65 or IP67 IP65 or IP67

Shock Resistance IK08 IK08

Rear Nut Fixing Torque: 0.3Nm 0.3Nm

Materials

Mouldings: **PBT** PBT

Tags/Terminations: Brass, Silver Plated Brass, Silver Plated

Switch Body & Button: /SS Stainless Steel /N - Nickel Plated Brass

Contacts: Silver Alloy Silver Alloy

Thread size: M12x1 M12x1

RoHS Compliant Compliant

Miniature Domed PBT Pushbutton

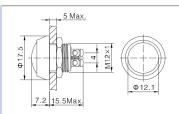
Non Illuminated - PB7

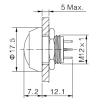


MMP0120/A



- Raised Domed Profile
- PBT Material
- 12mm Diameter
- 2A, 36Vac
- IP65 or IP67 (Front of Panel Only)









Specification

MMP0120/A

MMP0120/A

Terminations: P - Solder Tabs S - Screw Terminal

Switching: S.P. Push to make

 Max Rating:
 2A, 36Vdc

 Contact Resistance:
 ≥50MΩ

Insulation Resistance: ≥1000MΩ

Dielectric Strength: 1500V, AC 50Hz, 5 Secs

Operating Temp Range: *-25°C ~ +55°C

Operations

 Mechanical:
 1,000,000 (min)

 Electrical:
 200,000 (min)

Sealing (Front of Panel Only) IP65 or IP67

Shock Resistance IK08

Rear Nut Fixing Torque: 0.3Nm

Materials

Mouldings: PBT

Tags/Terminations: Brass, Silver Plated

Switch Body /A Black Anodised

Switch Button: /NB Nickel Plated Brass

/RD RED PBT
/GN GREEN PBT
/BL BLUE PBT
/BK BLACK PBT

Contacts: Silver Alloy

Thread size: M12x1

RoHS Compliant

Miniature Domed Illuminated Pushbutton

MMPI0120

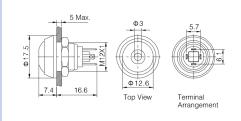


MMPI0120



O 2A, 36Vac

- Raised Domed Profile
- O Dot Illumination
- Bright daylight LEDs
- 12mm Diameter
- O IP65 (Front of Panel Only)



Specification MMPI0120

P - Solder Tabs Terminations:

Switching: S.P. Push to make Max Rating: 2A, 36Vdc

LED Ratings

Part No. SS-RD SS-GN NN-RD ABK-RD AG-RD Colours Red Green Red Red Red Luminous Intensity Forward Voltage 1.8V 2.8V 1.8V 1.8V 1.8V Forward Current Moulding Current 15mA 15mA 15mA 15mA 15mA

Illumination Voltage /no suffix - No resistor fitted. An Appropriate resistor must be series connected by the user.

Voltages as above

/12

Contact Resistance: ≥50MΩ Insulation Resistance: ≥1000M Ω

1500V, AC 50Hz, 5 Secs Dielectric Strength:

Operating Temp. Range: *-25°C ~ +55°C

Operations

Mechanical: 1,000,000 (min) Electrical: 200,000 (min)

Sealing (Front of Panel Only) IP65

IK08 Shock Resistance

Rear Nut Fixing Torque: 0.3Nm

Materials

Thread size:

RoHS

Mouldings:

Tags/Terminations: Brass, Silver Plated

M12x1

Compliant

Switch Body & Button: Stainless Steel Stainless Steel Nickel Plated Brass Black Anodized Black Anodized Body, Green PBT

Body, Black PBT Button Button

Contacts: Silver Alloy

Part No System



12mm Miniature Vandal Resistant Stainless Steel Switch

MAV0120	/	X	/	X	/	X ,	/ x	/ x
Series MAV0120		Button 1 = Flush 3 = Prominent		Switching Type D = Momentary		Type of Illumination Blank = None 1 = Dot 2 = Ring	Illumination Colour Blank = None RD = RED GN = GREEN BL = BLUE AM = AMBER/YELLOW OR = ORANGE	Lamp Voltage Blank = None 012 = 12V 024 = 24V

Examples:

MAV0120/3D = 12mm Prominent Actuator, Momentary, Non Illuminated MAV0120/3D1BL024 = 12mm Prominent Actuator, Momentary, Blue Dot Illuminated, 24V MAV0120/3D2GN012 = 12mm Prominent Actuator, Momentary, Green Ring Illuminated, 12V

12mm Miniature Metal/Plastic Domed Pushbutton Switch

MMPXXX	/ x	/ x	/ x /	/ x ,	/ x	/ x
Series	Body Material	Button Material & Colour	Sealing	Illumination Colour	Lamp Voltage	Termination
MMP0120 = Non Illuminated MMPI0120 =	S = Stainless Steel N = Nickel Plated Brass A = Black Anodized	SS = Nickel Plated Brass RD = RED PBT GN = GREEN PBT BL = BLUE PBT	Blank = IP65 67 = IP67 IP67 (non-illuminated only)	Blank = None RD = RED GN = GREEN BL = BLUE	Blank = None 012 = 12V 024 = 24V Other voltages require	S = Screw Terminals P= Solder Terminals (2.0mm x 0.5mm)
Illuminated	1	BK = BLACK PBT		AM = AMBER/YELLOW OR = ORANGE	external resistor	

Examples:

MMP0120/SSSS = 12mm, Non Illuminated, All Stainless Steel, IP65, Screw Terminals MMP0120/ARD67/S = 12mm, Non Illuminated, Black anodized body, Red PBT button, IP67, screw terminals MMPI0120/NNBRD012P = 12mm, Illuminated, All Nickel Plated Brass with 12V Red Dot illumination, IP65, Pin Terminals

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