Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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.

Stainless Steel Low Profile Vandal Resistant
Momentary

bulgin
a brand of Elektron Technology

Front Panel Mounting

MP0027

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

37.0 A/C 4.0 Max. Panel. Ø25.80±0.10

Ø27.8

1.6   25.2

Fixing Detail
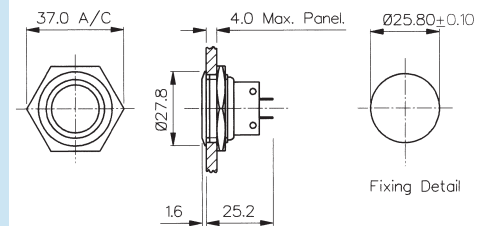
Front Panel Mounting

MP0038
Sealed to IP66

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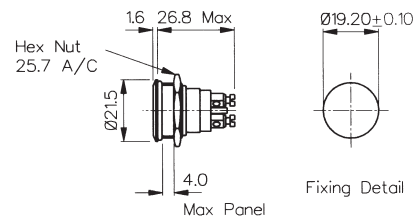- 28mm diameter
- S.P.C.O. Microswitch
- 5A, 250Vac

37.0 A/C 3.5 Max Panel Ø25.80±0.10

Ø27.8

2.1/1.6   25.2

Fixing Detail
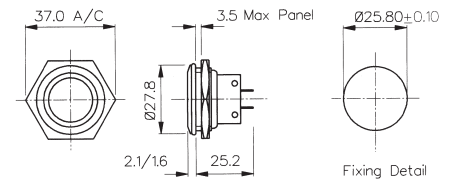
Specifications	MP0027	MP0038
Terminations:	Solder Tags	Solder Tags
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	5A, 250Vac 2A, 28Vdc	5A, 250Vac 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10^3 MΩ	>10^3 MΩ
Dielectric Strength:	>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 Low Profile Vandal Resistant
Momentary

bulgin
a brand of Elektron Technology

Front Panel Mounting

MP0037
Sealed to IP68

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

Hex Nut 25.7 A/C
Ø21.5
1.6 26.8 Max
4.0
Max Panel
Ø19.20+0.10
Fixing Detail

Front Panel Mounting

MP0031
Sealed to IP66

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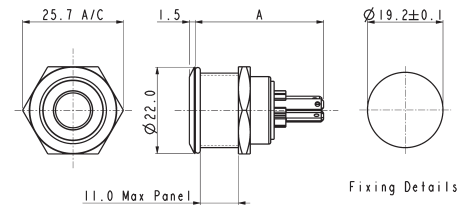- 21.5mm diameter
- S.P.C.O. Microswitch
- 5A, 250Vac

Ø21.5
1.6
30.0
Ø19.20+0.10
7.1 MAX Panel
Hex Nut 25.7 A/C
19.8
Fixing Details
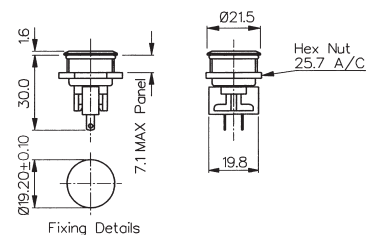
Specifications	MP0037	MP0031
Terminations:	Screw Terminals	Solder Tags
Switching:	S.P. Push to make Momentary action	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	1A, 50Vac/dc	5A, 250Vac 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10^5 MΩ	>10^3 MΩ
Dielectric Strength:	>1.0kVac	>2.0kVac
Operating Temp. Range:	–20°C to +70°C	–20°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP68 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	
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

bulgin
a brand of Elektron Technology

Front Panel Mounting

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

MPI001- front panel seal to IP66

25.7 A/C   1.5   A   Ø19.2±0.1

Ø22.0

11.0 Max Panel

Fixing Details

MPI001/TAG/COL A = 32.7
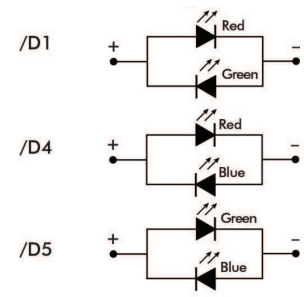MPI001/TERM/COL A = 31.0 MAX.

Specifications — MPI001/Termination/Colour/Voltage

Illumination style: Dot
Terminations: /28 (2.8mm tabs), /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	/BL	/WH	/D1	/D4	/D5
Colours	Red	Green	Amber	Blue	White	Red/Green	Red/Blue	Green/Blue
Luminous Intensity	900mcd	2500mcd	900mcd	1500mcd	900mcd	2500mcd/5000mcd	2000mcd/850mcd	4000mcd/2000mcd
Forward Voltage	1.85V	3.5V	2.3V	3.5V	3.6V	2.05V/3.6V	2.0V/3.6V	3.6V/3.6V
Forward Current	20mA	20mA	20mA	20mA	20mA	20mA	20mA	20mA
Moulding Colour	Red	Green	Amber	Blue	White	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   12Vdc
/24   24Vdc

Contact Resistance: <100mΩ
Insulation Resistance: >10³ MΩ
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)
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
Thread size: 18.97mm x 26TPI

RoHS
ESD Handling precautions must be taken
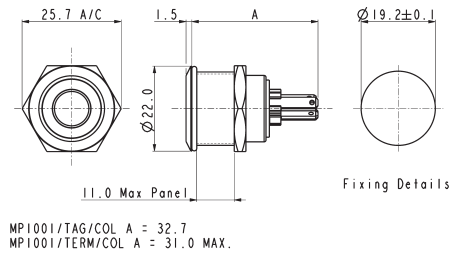Compliant

Dual Colour LED Configuration

/D1   + Red − Green
/D4   + Red − Blue
/D5   + Green − Blue

bulgin
a brand of Elektron Technology

Front Panel Mounting

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

MPI002- front panel seal to IP66

```
25.7 A/C      1.5         A           Ø19.2±0.1

                                         Fixing Details
22.0
                 11.0 Max Panel
MPI001/TAG/COL A = 32.7
MPI001/TERM/COL A = 31.0 MAX.
```

Specifications — MPI002/Termination/Colour/Voltage

Illumination style: Ring
Terminations: /28 (2.8mm tabs),
/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	/BL	/WH	/D1	/D4	/D5	/D6
Colours	Red	Green	Amber	Blue	White	Red/Green	Red/Blue	Green/Blue	Green/White
Luminous Intensity	900mcd	2500mcd	900mcd	1500mcd	900mcd	2500mcd/5000mcd	2000mcd/850mcd	4000mcd/2000mcd	178mcd/450mcd
Forward Voltage	1.85V	3.5V	2.3V	3.5V	3.6V	2.05V/3.6V	2.0V/3.6V	3.6V/3.6V	3.4V/3.2V
Forward Current	20mA	20mA	20mA	20mA	20mA	20mA	20mA	20mA	20mA
Moulding Colour	Red	Green	Amber	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   12Vdc
/24   24Vdc

Contact Resistance: <100mΩ
Insulation Resistance: >10³ MΩ
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

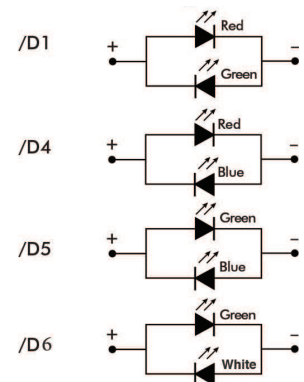Screw Terminal Torque: 0.2Nm Max

Materials
Switch assembly: UL94V-0 rated Polyamide (Nylon)
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
Thread size: 18.97mm x 26TPI

RoHS

ESD Handling precautions must be taken
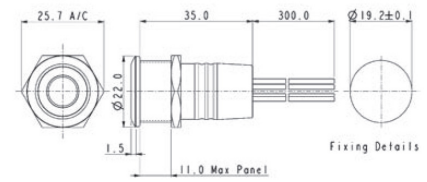Compliant

Dual Colour LED Configuration

```
/D1    + [>|Red  >|Green] −
/D4    + [>|Red  >|Blue]  −
/D5    + [>|Green >|Blue] −
/D6    + [>|Green >|White] −
```

Stainless Steel Illuminated Vandal Resistant

bulgin
a brand of Elektron Technology

Rear Panel Sealed - Flying Leads

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

MPI002/FL/xx/x

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

Rear Panel Sealed - Solder Tags

○ Dot or ring illumination
○ 22mm diameter
○ Single pole push to make
○ 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

MPI001/RP/xx/x
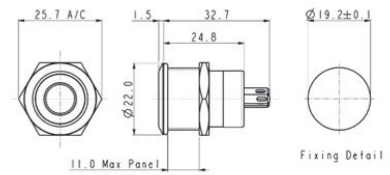
LED terminals marked + and –. Switch terminals unmarked.

Specifications	MPI001/Termination/Colour/Voltage					MPI002/Termination/Colour/Voltage				
Illumination style:	Dot					Ring				
Terminations:	/FL (Flying leads)					/FL (Flying leads)				
	/RP (Solder tags)					/RP (Solder tags)				
Switching:	Single pole, push to make, tactile (momentary action)					Single pole, push to make, tactile (momentary action)				
Max. Switch Rating:	50mA, 24Vdc					50mA, 24Vdc				
LEDs (ratings @ 20mA)										
Part No.	/RD	/GN	/AM	/BL	/WH	/RD	/GN	/AM	/BL	/WH
Colours	Red	Green	Amber	Blue	White	Red	Green	Amber	Blue	White
Luminous Intensity	900mcd	2500mcd	900mcd	1500mcd	900mcd	900mcd	2500mcd	900mcd	1500mcd	900mcd
Forward Voltage	1.85V	3.5V	2.3V	3.5V	3.6V	1.85V	3.5V	2.3V	3.5V	3.6V
Forward Current	20mA	20mA	20mA	20mA	20mA	20mA	20mA	20mA	20mA	20mA
Moulding Colour	Red	Green	Amber	Blue	White	Red	Green	Amber	Blue	White
Illumination Voltage:	/no suffix No resistor fitted. An appropriate resistor must be series connected by the user. Voltages as above.					/no suffix No resistor fitted. An appropriate resistor must be series connected by the user. Voltages as above.				
	/6	6Vdc				/6	6Vdc			
	/12	12Vdc				/12	12Vdc			
	/24	24Vdc				/24	24Vdc			
Contact Resistance:	<100mΩ					<100mΩ				
Insulation Resistance:	>10³ MΩ					>10³ MΩ				
Dielectric Strength:	Contact to Panel >2.0kV					Contact to Panel >2.0kV				
	Contact to Contact 1500					Contact to Contact 1500				
Operating Temp. Range:	–30°C to +70°C					–30°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:	750,000 (min)					750,000 (min)				
Electrical:	35,000 (min)					35,000 (min)				
Operating Pressure:	12N					12N				
Rear Nut Fixing Torque:	0.57Nm					0.57Nm				
Materials										
Switch assembly:	UL94V-0 rated Polyamide (Nylon)					UL94V-0 rated Polyamide (Nylon)				
Tags:	Copper Alloy					Copper Alloy				
Terminals:	Copper Alloy					Copper Alloy				
Switch Body & Button:	Stainless Steel					Stainless Steel				
Lens and Lens Body:	Polycarbonate					Polycarbonate				
O ring:	Nitrile					Nitrile				
Internal seal:	Silicone					Silicone				
Contact Plate:	Gold Plated					Gold Plated				
Thread size:	18.97mm x 26TPI					18.97mm x 26TPI				
						ESD Handling precautions must be taken				

RoHS

ESD Handling precautions must be taken
Compliant

Compliant

Low Profile Brass Chrome Plated Vandal Resistant

bulgin
a brand of Elektron Technology

Front Panel Mounting

○ Front Panel Sealed to IP66
○ 28mm diameter
○ S.P.C.O. Microswitch
⬡ 5A, 250Vac

MPB038
Sealed to IP66

37.0 A/C 4.0 Max. Panel. Ø25.80±0.10
Ø27.8
1.6 25.2
Fixing Detail
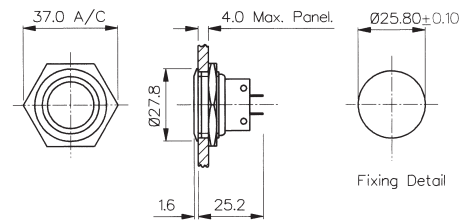
Front Panel Mounting

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

MPB031
Sealed to IP66

Ø21.5
Hex Nut 25.7 A/C
1.6
30.0
7.1 MAX Panel
Ø19.20±0.10
19.8
Fixing Details

Front Panel Mounting

○ Front Panel Sealed to IP68
○ 21.5mm diameter
○ S.P. Push to Make
⬡ 1A, 50Vac/dc
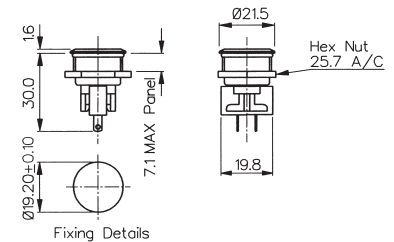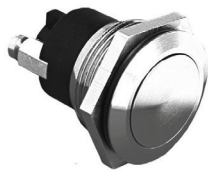
MPB037
Sealed to IP68

1.6 26.8 Max Ø19.20±0.10
Hex Nut 25.7 A/C
Ø21.5
4.0
Max Panel
Fixing Detail
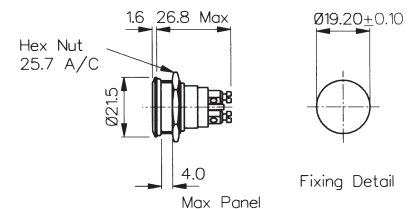
Specifications	MPB038	MPB031	MPB037
Terminations:	Solder Tags	Solder Tags	Screw Terminals
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)	S.P. Push to make Momentary action
Max. Rating:	5A, 250Vac. 2A, 28Vdc	5A, 250Vac. 2A, 28Vdc	1A, 50Vac/dc
Contact Resistance:	<10mΩ	<10mΩ	<10mΩ
Insulation Resistance:	>10^3 MΩ	>10^3 MΩ	>10^5 MΩ
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
Momentary

bulgin
a brand of Elektron Technology

Front Panel Mounting - Low Profile

MP0050

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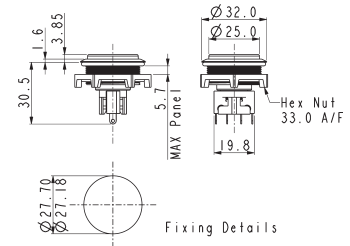- 5A, 250Vac

Fixing Details
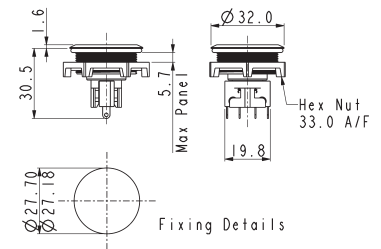
Front Panel Mounting - Protruding Profile

MP0050/2

- Front Panel Sealed to IP68
- Protruding button
- 32.0mm diameter
- S.P.C.O. switching
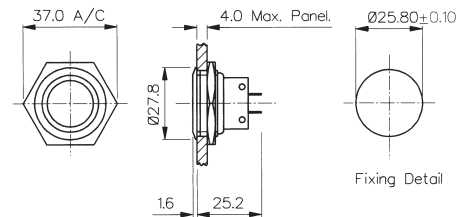- Momentary action
- 5A, 250Vac

Fixing Details

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 MΩ	>10^3 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)	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

bulgin
a brand of Elektron Technology

Front Panel Mounting

⬡ 28mm diameter
⬡ Domed Profile
⬡ S.P.C.O. Microswitch
⬡ 5A, 250Vac

MP0027/3

37.0 A/C   4.0 Max. Panel.   Ø25.80±0.10

Ø27.8

1.6   25.2

Fixing Detail

Front Panel Mounting

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

MP0038/3
Sealed to IP66

36.7 A/C   3.5 Max Panel   Ø25.8±0.1

Ø27.8

3.8   25.2

Fixing Detail
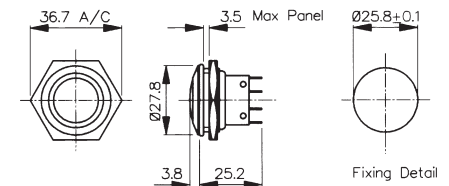
Specifications	MP0027/3	MP0038/3
Terminations:	Solder Tags	Solder Tags
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	5A, 250Vac. 2A, 28Vdc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10^3 MΩ	>10^3 MΩ
Dielectric 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	0.747" x 26TPI
RoHS	Compliant	Compliant

Stainless Steel Domed Vandal Resistant

bulgin
a brand of Elektron Technology

Front Panel Mounting

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

MP0037/3
Sealed to IP68

3.6 28.0 Ø19.20±0.10
Hex Nut 25.7 A/C
Ø21.5
4.0
Max Panel
Fixing Detail

Front Panel Mounting

○ Front Panel Sealed to IP66
○ 21.5mm diameter
○ Domed Profile
○ S.P.C.O. Microswitch
○ 5A, 250Vac
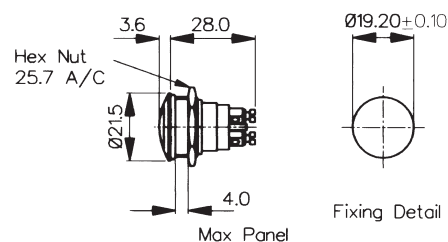
MP0031/3
Sealed to IP66

Ø21.5
Hex Nut 25.7 A/C
3.6
30.0
7.1 MAX Panel
Ø19.20±0.10
19.8
Fixing Details
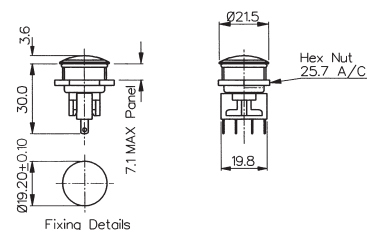
Specifications	MP0037/3	MP0031/3
Terminations:	Screw Terminals	Solder Tags
Switching:	S.P. Push to make Momentary action	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	1A, 50Vac/dc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10^5 MΩ	>10^3 MΩ
Dielectric Strength:	>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

bulgin
a brand of Elektron Technology

Front Panel Mounting

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

MP0027/2

37.0 A/C   4.0 Max. Panel.   Ø25.80±0.10
Ø27.8
1.6   25.2
Fixing Detail

Front Panel Mounting

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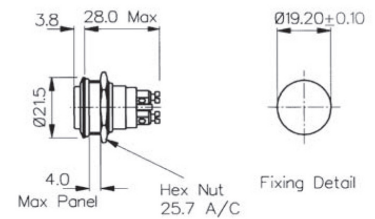○ Prominent Button
○ S.P.C.O. Microswitch
○ 5A, 250Vac

MP0038/2
Sealed to IP66

37.0 A/C   4.0 Max. Panel.   Ø25.80±0.10
Ø27.8
1.6   25.2
Fixing Detail

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 MΩ	>10^3 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

bulgin
a brand of Elektron Technology

Front Panel Mounting

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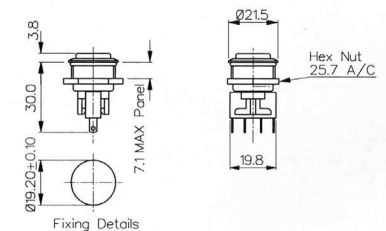⬡ Prominent Button
⬡ S.P. Push to Make
⬡ 1A, 50Vac/dc

MP0037/2
Sealed to IP68

Front Panel Mounting

⬡ Front Panel Sealed to IP66
⬡ 21.5mm diameter
⬡ Prominent Button
⬡ S.P.C.O. Microswitch
⬡ 5A, 250Vac

MP0031/2
Sealed to IP66
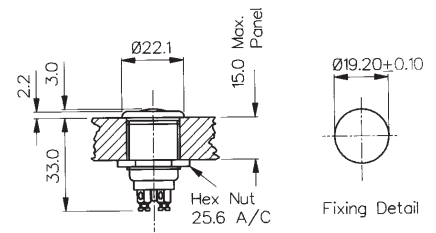
Specifications	MP0037/2	MP0031/2
Terminations:	Screw Terminals	Solder Tags
Switching:	S.P. Push to make Slow momentary action	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	1A, 50Vac/dc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	>10^5 MΩ	>10^3 MΩ
Dielectric Strength:	>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:	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

Push Button

Front Panel Mounting

MP0013
MP0033

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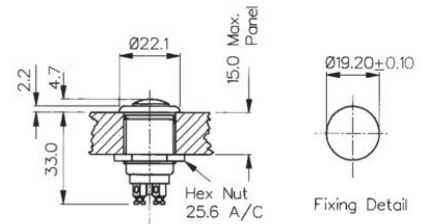- MP0033 Internally Sealed

Front Panel Mounting

MP0013/2
MP0033/2

- Prominent Button
- 22mm diameter
- 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
Terminations:	Screw Terminals	Screw Terminals
Switching:	S.P. Push to make Slow momentary action	S.P. Push to make Slow momentary action
Max. Rating:	1A, 50Vac/dc	1A, 50Vac/dc
Contact Resistance:	<15mΩ	<15mΩ
Insulation Resistance:	>10^4 MΩ	>10^4 MΩ
Dielectric Strength:	>2.5kVac	>2.5kVac
Operating Temp. Range:	−20°C to +85°C	−20°C to +85°C
Sealing (Front of panel only):	MP0033 only - internally sealed against ingress of water and dust	MP0033/2 only - internally sealed against ingress of water and dust
Materials Mouldings: Tags/Terminations: Switch Body & Button:	Glass Filled Nylon Brass, Silver Plated Body: Brass, Chrome Plated Button: Stainless Steel	Glass Filled Nylon Brass, Silver Plated Body: Brass, Chrome Plated Button: Stainless Steel
Contacts:	Copper, Silver Plated	Copper, Silver Plated
Thread Size:	0.747" x 26TPI	0.747" x 26TPI
RoHS	Compliant	Compliant

Flush Profile

MP0042/1

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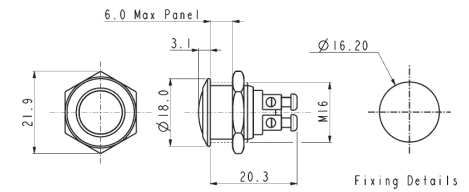- Polished finish
- 2A, 48Vdc
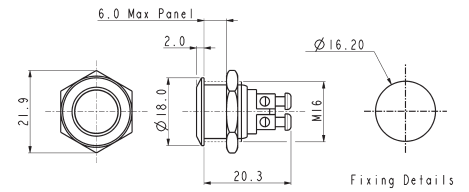
Domed Profile

MP0042/2

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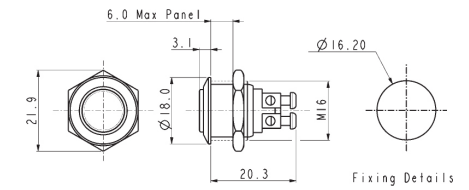- 16mm panel hole
- S.P. Push to make
- Polished finish
- 2A, 48Vdc

Prominent Button

MP0042/3

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

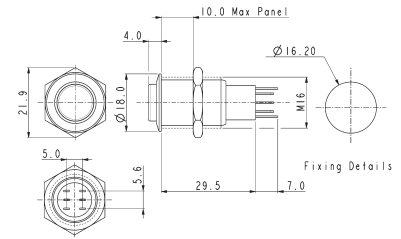| Specifications	MP0042/1	MP0042/2	MP0042/3
Terminations:	Screw Terminals	Screw Terminals	Screw Terminals
Switching:	S.P. Push to make	S.P. Push to make	S.P. Push to make
Max. Rating:	2A, 48Vdc	2A, 48Vdc	2A, 48Vdc
Contact Resistance:	50mΩ at 1A, 2V	50mΩ at 1A, 2V	50mΩ at 1A, 2V
Insulation Resistance:	>10^3 MΩ @ 500Vdc	>10^3 MΩ @ 500Vdc	>10^3 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:	1,000,000 (min)	1,000,000 (min)	1,000,000 (min)
Electrical:	100,000 (min)	100,000 (min)	100,000 (min)
Rear Nut Fixing Torque:	12Nm	12Nm	12Nm
Materials Mouldings:	Nylon	Nylon	Nylon
Tags/Terminations:	Brass, Silver Plated	Brass, Silver Plated	Brass, Silver Plated
Switch Body & Button:	Stainless Steel (Polished)	Stainless Steel (Polished)	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

Low Profile

MP0045/1D

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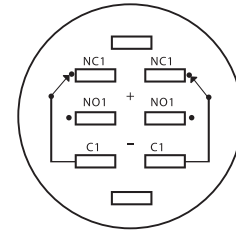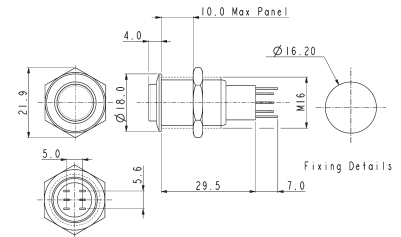- 16mm fixing hole diameter
- D.P.C.O
- 250V ac

Prominent Button

MP0045/3D

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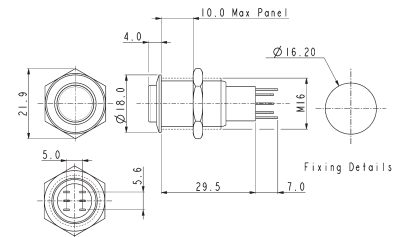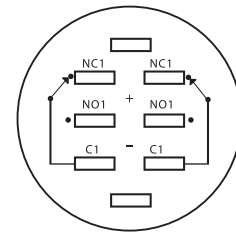- D.P.C.O
- 250V ac

Contact Layout

Specifications	MP0045/1D0NN000	MP0045/3D0NN000
Terminations:	Solder tags	Solder tags
Switching:	D.P.C.O Momentary Action	D.P.C.O Momentary Action
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

Low Profile

MP0045/1E

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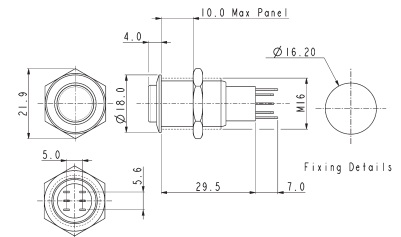- ⬡ D.P.C.O.
- ⬡ 250V ac

Prominent Button

MP0045/3E

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

Contact Layout

Specifications	MP0045/1E0NN000	MP0045/3E0NN000
Terminations:	Solder Tags	Solder Tags
Switching:	D.P.C.O. - Latching Action	D.P.C.O. - Latching Action
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, 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.
- 3A, 250V ac
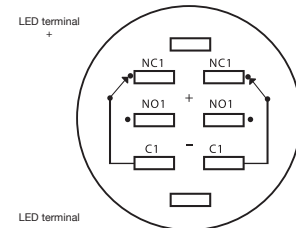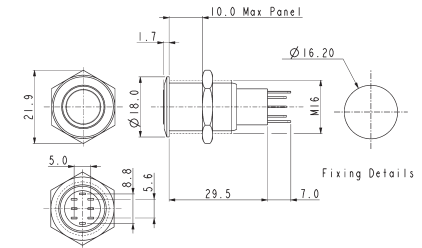- Red, Green, Amber or Blue Illumination
- Separate LED Terminals
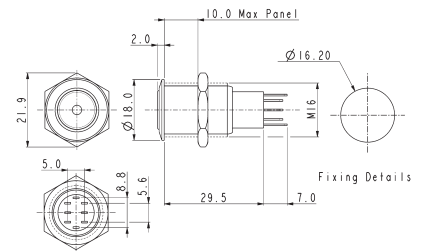
MP0045/1D1

Front Panel Mounting

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

MP0045/1D2

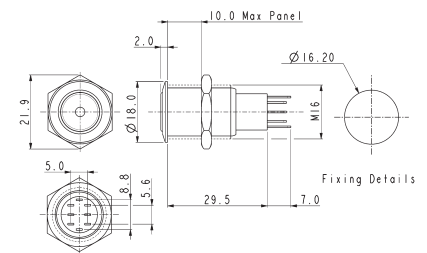Contact Layout

Specifications	MP0045/1D1/Colour/Voltage				MP0045/1D2/Colour/Voltage			
Terminations:	Solder Tags				Solder Tags			
Illumination:	Dot				Ring			
Switching:	D.P.C.O. Momentary Action				D.P.C.O. Momentary Action			
Max. Switch Rating:	3A, 250Vac				3A, 250Vac			
LEDs Colours Part No.	Red /RD	Green /GN	Amber /AM	Blue /BL	Red /RD	Green /GN	Amber /AM	Blue /BL
Voltage Part No.	12Vdc /012	220Vdc /220			12Vdc /012	220Vdc /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: Tags: Switch Body & Button: Variants	Nylon Brass, Silver Plated Stainless Steel (Polished) Prominent Button, details on request				Nylon Brass, Silver Plated Stainless Steel (Polished) Prominent Button, details on request			
RoHS	Compliant				Compliant			

Stainless Steel Illuminated Latching

Front Panel Mounting

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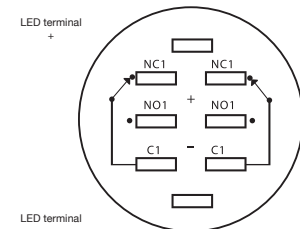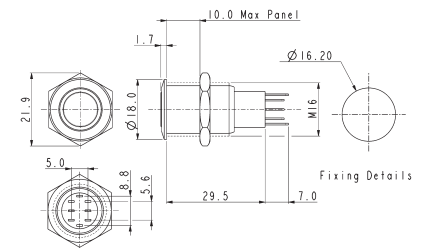- Red, Green, Amber or Blue Illumination
- Separate LED Terminals

MP0045/1E1

Front Panel Mounting

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

MP0045/1E2

Contact Layout

Specifications	MP0045/1E1/Colour/Voltage				MP0045/1E2/Colour/Voltage			
Terminations:	Solder Tags				Solder Tags			
Illumination:	Ring				Ring			
Switching:	D.P.C.O. Momentary Action				D.P.C.O. Momentary Action			
Max. Switch Rating:	3A, 250Vac				3A, 250Vac			
LEDs Colours Part No.	Red /RD	Green /GN	Amber /AM	Blue /BL	Red /RD	Green /GN	Amber /AM	Blue /BL
Voltage Part No.	12Vdc /012	220Vdc /220			12Vdc /012	220Vdc /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: Tags: Switch Body & Button: Variants	Nylon Brass, Silver Plated Stainless Steel (Polished) Prominent Button, details on request				Nylon Brass, Silver Plated Stainless Steel (Polished) Prominent Button, details on request			
RoHS	Compliant				Compliant			

Key Features

○ Momentary or latching action

○ Ratings up to 12(12) @ 250Vac

○ 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

H8300RP - - -

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)
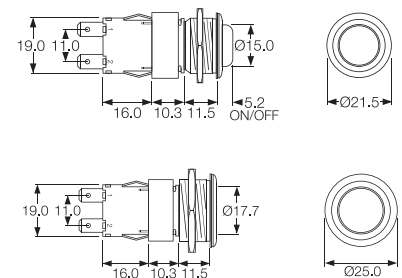6(6)A 250Vac T125, 5E4 (50,000 Operations)

12A 250Vac 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)

19.0 11.0 | Ø15.0
16.0 10.3 11.5 | 5.2 ON/OFF | Ø21.5

19.0 11.0 | Ø17.7
16.0 10.3 11.5 | Ø25.0

Terminal	Function	Actuator	Body Code
C 10.1 **H** 8.5	**8300** (alternate) Single pole ON - OFF	**R** (for P body only) Raised top (stainless steel)	
K 2.6 8.5 1.5 **T** 2.6 7.0 1.5	**8301** (momentary ON) Single pole ON - OFF	**V** Flat top (stainless steel)	**P** (for R actuator only) Stainless steel, Soft profile bezel Ø19.2
V 4.3 3 7Ctrs **X** 4.5 7.0	**8350** (alternate) Double pole ON - OFF **8301** (momentary ON) Single pole ON - OFF	**P** Domed top (stainless steel)	**M** Stainless steel Ø22.5

0911 Vandal Resistant Switches

bulgin
a brand of Elektron Technology

C0911VA - - -

Key Features

○ Snap action switches

○ Ratings up to 16A, 250Vac

○ Round and rectangular buttons

○ Single Pole C/O Switch

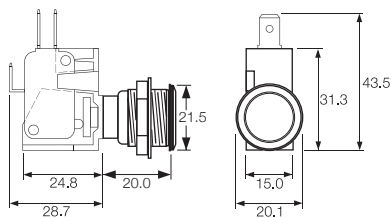## Approvals and specifications

16(4)A 250Vac 5E4 T85

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

C0911VA

Terminal	Function	Actuator	Body Code
12.0	**0911** (momentary) ON - ON	**V** Flat top (stainless steel)	**A** Stainless steel Chamfer profile bezel Ø19.2 Panel cut-out Panel thickness up to 8.0mm

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
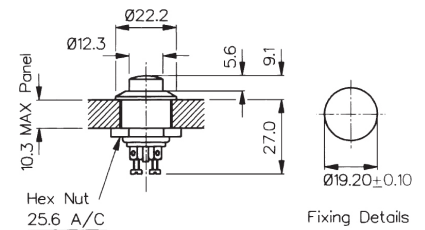
bulgin
a brand of Elektron Technology

Front Panel Mounting

MP0012/Col

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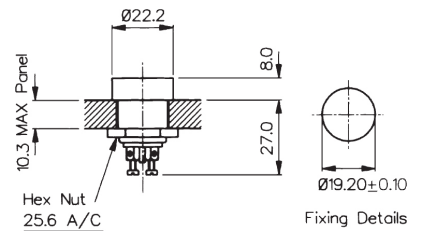- Brass, Chrome Plated Body, Glass Filled Nylon Button

Front Panel Mounting

MP0012/1/Col

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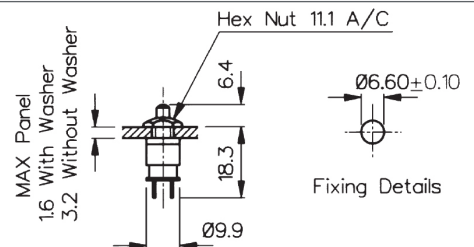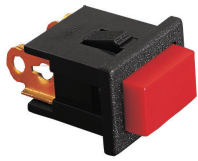- Brass, Chrome Plated Body, Glass Filled Nylon Button

Rear Panel Mounting

MP0016

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

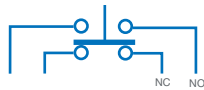| Specifications	MP0012/Colour	MP0012/1/Colour	MP0016/Colour
Terminations:	Screw Terminals	Screw Terminals	Solder Tags
Switching:	S.P. Push to Make Slow Momentary Action	S.P. Push to Make Slow Momentary Action	S.P. Push to Make Slow Momentary Action
Max. Rating:	0.25A. 250Vac, 1A. 110Vac, 2A. 12Vac/dc	0.25A. 250Vac, 1A. 110Vac, 2A. 12Vac/dc	1A 28Vac/dc (non-inductive)
Contact Resistance:	<15mΩ	<15mΩ	<15mΩ
Insulation Resistance:	>10^4 MΩ	>10^4 MΩ	>10^4 MΩ
Dielectric Strength:	>2.5kVac	>2.5kVac	>2.0kVac
Operating Temp. Range:	−20°C to +85°C	−20°C to +85°C	−20°C to +85°C
Operation 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
Variant	Button Colour: Standard - Black, /RD (Red)	Button Colour: Standard - Black, /RD (Red)	Button Colour: Standard - Black, /RD (Red)
RoHS	Compliant	Compliant	Compliant

Front Panel Mounting

MP0022/Col

◇ S.P. Push to Make
◇ Solder Tags
◇ Nylon Body & Button

7.1
12.3
21.6   6.1
14.5
9.5
Fixing Details
12.3   17.5
Panel Thickness
0.71/0.91, 1.7, 2.5
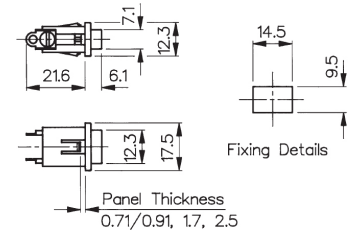
Switch Contact Operation

S.P. Push to Make S.P.M.B

NC   NO
S.P.C.O.

D.P.C.O.

D.P.M.B.

Specifications	MP0022/Colour
Terminations:	Solder Tags
Switching:	S.P. Push to Make Slow Momentary Action
Max. Rating:	0.25A. 250Vac, 0.5A. 110Vac, 1A. 0.1 to 28Vac/dc
Contact Resistance:	<15mΩ
Insulation Resistance:	>10^4 MΩ
Dielectric Strength:	>2.5kVac
Operating Temp. Range:	–20°C to +70°C
Sealing:	
Materials Moulding: Tags: Body:	Nylon Brass, Silver Plated Nylon
Contacts/Terms:	Brass, Silver Plated
Variant	Button Colours: Standard - Black, /WH (White) and /RD (Red). /TERM - (Screw terminals)
RoHS	Compliant

8300 Series Push Button

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

bulgin
a brand of Elektron Technology

Key Features

○ Miniature push button

○ 8A Inductive current rating

○ Ratings up to 12(12)A, 250V ac (H suffix)

○ Illuminated and nonilluminated

○ Single and double pole

○ Latching and momentary

○ Slotted actuator for custom buttons

○ Industry standard panel cutout

○ BioCote antimicrobial option

○ 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)

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:
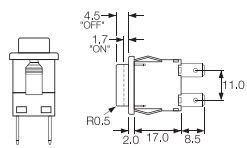10(10)A 250Vac—Indicative rating only

BioCote antimicrobial additive. Independently verified to ISO22196:2007.
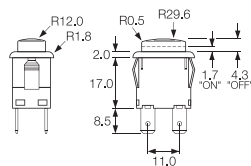
3mm contact gap.

Terminal	Function	Actuator	Body Code	Body Colour

Terminal

C
6.3 x 0.8
10.1

H
4.8 x 0.8
8.5

A
As "H" but right angle 4.8 x 0.8
7.6

K
2.8 x 0.8
2.6 / 1 5 / 8.5

T
Solder
2.6 / 1.5 / 7.0

X
PCB 0.8 Sq
4.5 / 7.0

V
Dual pin PCB (Call sales for mounting dims)
3.7Ctrs / 4.3

Function

Approvals & ratings vary with function
Single pole switches use terminals 1 & 2 (& 3)

8300
Single Pole
ON - OFF

8301
Single Pole
ON - OFF
(momentary ON)

8303
Single Pole
ON - OFF
With Light

8304
Single Pole
ON - OFF
(momentary ON) with light

8350
Double pole
ON - OFF

8351
Double pole
ON - OFF (momentary ON)

8353
Double pole
ON - OFF
With light

8354
Double pole
ON - OFF (momentary ON)
with light

8355
Single pole
ON - OFF
Isolated light - switched
C, E & M actuators only

8356
Single pole
ON - OFF
Isolated light - unswitched
C, E & M actuators only

Actuator

A Standard actuator

H Slotted for custom caps
Slots for snap-in buttons

C Square actuator

E Radiused actuator

F Small round actuator

J Smooth curved actuator

M

D Large round actuator

All actuators except H available lit

Body Code

Panel cut-out ** Bezel

B Standard body
12,9 / X / 21,0 / 15,0

E Softline style body with radiused bezel
12,9 / X / 21,0 / 15,0

Cut-outs must be punched in the direction of insertion

Dimensions for snap-in fixing

Panel thickness	Dimension X
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.

Body Colour

B Black

W White

Dimensions

Actuator A
Body B

Actuator J
Body E

Examples

⊡ H8350AB - - -
⊡ T8350AB - - -

⊡ H8353JE - - -
⊡ T8353JE - - -

⊡ H8353EB - - -
⊡ T8353EB - - -

⊡ H8353CB - - -
⊡ T8353CB - - -

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