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## 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.

The front and rear panel mounted versions have three profiles prominent, domed and low profile - with a choice of switching and IP66 front panel sealing and combine 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 illuminated versions, available in dot and ring indication, are new to the range and will add that extra dimension to control panel layouts.

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## Vandal Resistant Switches

## ENGRAVING OPTIONS

The low profile and prominent vandal resistant switches MP0025, MP0027, MP0031, MP0034, MP0038, MP0025/2, MP0027/2, MP0031/2, MP0034/2 and MP0038/2 are also available with engraved non-rotating buttons.


## How to Order



Examples
MP0031/1/A1 = MP0031 style switch, with non-rotating button engraved with an up arrow

MP0027/2/1/13 = MP0027 style switch with prominent non-rotating button engraved with numeric characters 13

## SWITCH OPERATION

## Switch Contact Operation


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

S.P.C.O.

## Stainless Steel Low Profile Vandal Resistant



- 28 mm diameter
- S.P.C.O. Microswitch
- 5A, 250 V a.c.

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



## REAR PANEL MOUNTING



- 22 mm diameter
- S.P.C.O. Microswitch
- 5A, 250V a.c.


| Specification | MP0027 | MP0038 | MP0025 |
| :---: | :---: | :---: | :---: |
| Terminations: | Solder Tags | Solder Tags | Solder Tags |
| Switching: | S.P.C.O. Momentary Action (Microswitch) | S.P.C.O. Momentary Action (Microswitch) | S.P.C.O. Momentary Action (Microswitch) |
| Max. Rating: | 5A, 250 V a.c. | 5A, 250 V a.c. | 5A, 250 V a.c. |
| Contact Resistance: | $<10 \mathrm{~m} \Omega$ | $<10 \mathrm{~m} \Omega$ | $<10 \mathrm{~m} \Omega$ |
| Insulation Resistance: | $>10^{3} \mathrm{M} \Omega$ | $>10^{3} \mathrm{M} \Omega$. | $>10^{3} \mathrm{M} \Omega$ |
| Dielectric Strength: | $>2.0 \mathrm{kV}$ a.c. | $>2.0 \mathrm{kV}$ a.c. | $>2.0 \mathrm{kV}$ a.c. |
| O perating Temp. Range: | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ |
| Sealing (Front of panel only): |  | Protection Classification: IP66 EN60529 1992 (Micro switch not sealed) |  |
| Operations |  |  |  |
| Mechanical: | 1,000,000 (min) | 1,000,000 (min) | 1,000,000 (min) |
| Electrical: | 35,000 (min) | 35,000 (min) | 35,000 (min) |
| O perating Pressure: | 7.5 N (typ) | 12.5 N (typ) | 6.1N (typ) |
| Rear Nut Fixing Torque: | 2.5 Nm | 1.13 Nm |  |
| Materials |  |  |  |
| Mouldings: | Glass Filled Nylon | Glass Filled Nylon | Glass Filled Nylon |
| Tags/Terminations: | Brass, Tin Plated | Brass, Tin Plated | Brass, Tin Plated |
| Switch Body \& Button: | Stainless Steel | Stainless Steel | Stainless Steel |
| Contacts: | Fine Silver | Fine Silver | Fine Silver |
| Variants: | Engraved Button, Non-Rotating Button, details on request | Engraved Button, Non-Rotating Button, details on request | Engraved Button, Non-Rotating Button, details on request |

Stainless Steel Low Profile Vandal Resistant


- Rear Panel Mounting
- Flush with Panel
- 19mm diameter
- S.PC.O. Microswitch
- 5A, 250 V a.c.


| MP0034

| Specification |
| :--- |
| Terminations: |
| Switching: |
| Max. Rating: |
| Contact Resistance: |
| Insulation Resistance: |
| Dielectric Strength: |
| O perating Temp. Range: |
| Sealing (Front |

Screw Terminals
S.P. Push to make

Momentary action
$1 \mathrm{~A}, 50 \mathrm{~V}$
$<10 \mathrm{~m} \Omega$
$>10^{5} \mathrm{M} \Omega$
$>1.0 \mathrm{kV}$ a.c.
$-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$
Protection Classification: IP68 EN60529
1992 (Terminals not sealed)

1,000,000 (min)
30,000 (min)
7.5 N (typ)
0.57 Nm

Glass Filled Nylon
Brass, Silver Plated
Stainless Steel
Brass, Silver Plated, Silver

MP0031
Solder Tags
S.P.C.O. Momentary Action
(Microswitch)
5A, 250 V a.c.
$<10 \mathrm{~m} \Omega$
$>10^{3} \mathrm{M} \Omega$.
$>2.0 \mathrm{kV}$ a.c.
$-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$
Protection Classification: IP66 EN60529 1992 (Micro switch not sealed)

1,000,000 (min)
35,000 (min)
4.7N (typ)
0.57 Nm

Glass Filled Nylon
Brass, Tin Plated
Stainless Steel
Fine Silver
Engraved Button, Non-Rotating Button, details on request

Solder Tags
S.P.C.O. Momentary Action
(Microswitch)
5A, 250 V a.c.
$<10 \mathrm{~m} \Omega$
$>10^{3} \mathrm{M} \Omega$
$>2.0 \mathrm{kV}$ a.c.
$-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$

250,000 (min)
35,000 (min)
2.7N (typ)

Glass Filled Nylon
Brass, Tin Plated
Stainless Steel
Fine Silver
Engraved Button, Non-Rotating Button, details on request

Stainless Steel Illuminated Vandal Resistant



## Low Profile Brass Chrome Plated Vandal Resistant



FRONT PANEL MOUNTING


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

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


| Specification | MPB027 | MPB038 | MPB031 |
| :---: | :---: | :---: | :---: |
| Terminations: | Solder Tags | Solder Tags | Solder Tags |
| Switching: | S.P.C.O. Momentary Action (Microswitch) | S.P.C.O. Momentary Action (Microswitch) | S.P.C.O. Momentary Action (Microswitch) |
| Max. Rating: | 5A, 250 V a.c. | 5A, 250 V a.c. | 5A, 250 V a.c. |
| Contact Resistance: | $<10 \mathrm{~m} \Omega$ | $<10 \mathrm{~m} \Omega$ | $<10 \mathrm{~m} \Omega$ |
| Insulation Resistance: | $>10^{3} \mathrm{M} \Omega$ | $>10^{3} \mathrm{M} \Omega$. | $>10^{3} \mathrm{M} \Omega$ |
| Dielectric Strength: | $>2.0 \mathrm{kV}$ a.c. | $>2.0 \mathrm{kV}$ a.c. | $>2.0 \mathrm{kV}$ a.c. |
| O perating Temp. Range: | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ |
| Sealing (Front of panel only): |  | Protection Classification: IP66 EN60529 1992 (Micro switch not sealed) | Protection Classification: IP66 EN60529 1992 (Micro switch not sealed) |
| O perations |  |  |  |
| Mechanical: | 1,000,000 (min) | 1,000,000 (min) | 1,000,000 (min) |
| Electrical: | 35,000 (min) | 35,000 (min) | 35,000 (min) |
| O perating Pressure: | 7.5 N (typ) | 12.5 N (typ) | 4.7 N (typ) |
| Rear Nut Fixing Torque: | 2.5 Nm | 1.13 Nm | 0.57 Nm |
| Materials |  |  |  |
| Mouldings: | Glass Filled Nylon | Glass Filled Nylon | Glass Filled Nylon |
| Tags/Terminations: | Brass, Tin Plated | Brass, Tin Plated | Brass, Tin Plated |
| Switch Body \& Button: | Brass, Chrome Plated | Brass, Chrome Plated | Brass, Chrome Plated |
| Contacts: | Fine Silver | Fine Silver | Fine Silver |
| Variants: | Non-Rotating Button, details on request | Non-Rotating Button, details on request | Non-Rotating Button, details on request |

## Low Profile Brass Chrome Plated Vandal Resistant

FRONT PANEL MOUNTING


- Front Panel Sealed to IP68
- 21.5 mm diameter
- S.P. Push to Make
- $1 \mathrm{~A}, 50 \mathrm{~V}$

| Specification | MPB037 |  |
| :---: | :---: | :---: |
| Terminations: | Screw Terminals |  |
| Switching: | S.P. Push to make Momentary action |  |
| Max. Rating: | 1A, 50V |  |
| Contact Resistance: | $<10 \mathrm{~m} \Omega$ |  |
| Insulation Resistance: | $>10^{5} \mathrm{M} \Omega$ |  |
| Dielectric Strength: | $>1.0 \mathrm{kV}$ a.c. |  |
| O perating Temp. Range: | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ |  |
| Sealing (Front of panel only): | Protection Classification: IP68 EN60529 1992 (Terminals not sealed) |  |
| O perations Mechanical: Electrical: | $\begin{aligned} & \text { 1,000,000 (min) } \\ & \text { 30,000 (min) } \end{aligned}$ |  |
| O perating Pressure: | 7.5 N (typ) |  |
| Rear Nut Fixing Torque: | 0.57 Nm |  |
| Materials Mouldings: Tags/Terminations: Switch Body \& Button: | Glass Filled Nylon <br> Brass, Silver Plated Brass, Chrome Plated |  |
| Contacts: <br> Variants: | Brass, Silver Plated, Silver |  |

Stainless Steel Domed Vandal Resistant


- 28 mm diameter
- Domed Profile
- S.P.C.O. Microswitch
- 5A, 250 V a.c.

- Front Panel Sealed to IP66
- 28 mm diameter
- Domed Profile
- S.P.C.O. Microswitch
- 5A, 250 V a.c.


| Specification | MP0027/3 | MP0038/3 | MP0025/3 |
| :---: | :---: | :---: | :---: |
| Terminations: | Solder Tags | Solder Tags | Solder Tags |
| Switching: | S.P.C.O. Momentary Action (Microswitch) | S.P.C.O. Momentary Action (Microswitch) | S.P.C.O. Momentary Action (Microswitch) |
| Max. Rating: | $5 \mathrm{~A}, 250 \mathrm{~V}$ a.c. | 5A, 250 V a.c. | 5A, 250 V a.c. |
| Contact Resistance: | $<10 \mathrm{~m} \Omega$ | $<10 \mathrm{~m} \Omega$ | $<10 \mathrm{~m} \Omega$ |
| Insulation Resistance: | $>10^{3} \mathrm{M} \Omega$ | $>10^{3} \mathrm{M} \Omega$. | $>10^{3} \mathrm{M} \Omega$ |
| Dielectric Strength: | $>2.0 \mathrm{kV}$ a.c. | $>2.0 \mathrm{kV}$ a.c. | $>2.0 \mathrm{kV}$ a.c. |
| O perating Temp. Range: | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ |
| Sealing (Front of panel only): |  | Protection Classification: IP66 EN60529 1992 (Micro switch not sealed) |  |
| Operations Mechanical: Electrical: | $\begin{aligned} & 1,00,000(\mathrm{~min}) \\ & 35,000(\mathrm{~min}) \end{aligned}$ | $1,000,000(\mathrm{~min})$ $35,000(\mathrm{~min})$ | $\begin{aligned} & 1,000,000(\mathrm{~min}) \\ & 35,000(\mathrm{~min}) \end{aligned}$ |
| O perating Pressure: | 7.5 N (typ) | 12.5N (typ) | 6.1 N (typ) |
| Rear Nut Fixing Torque: | 2.5 Nm | 1.13 Nm |  |
| Materials Mouldings: Tags/Terminations: Switch Body \& Button: | Glass Filled Nylon Brass, Tin Plated Stainless Steel | Glass Filled Nylon Brass, Tin Plated Stainless Steel | Glass Filled Nylon Brass, Tin Plated Stainless Steel |
| Contacts: | Fine Silver | Fine Silver | Fine Silver |
| Variants: | Non-Rotating Button, details on request | Non-Rotating Button, details on request | Non-Rotating Button, details on request |

Stainless Steel Domed Vandal Resistant


Stainless Steel Prominent Button Vandal Resistant


- 28 mm diameter
- Prominent Button
- S.P.C.O. Microswitch
- 5A, 250V a.c.

FRONT PANEL. MOUNTING


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


Stainless Steel Prominent Button Vandal Resistant


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

- Front Panel Sealed to IP66
- 21.5 mm diameter
- Prominent Button
- S.P.C.O. Microswitch
- 5A, 250 V a.c.

- 19 mm diameter
- Prominent Button
- S.PC.O. Microswitch
- 5A, 250V a.c.


| Specification | MP0037/2 | MP0031/2 | MP0034/2 |
| :---: | :---: | :---: | :---: |
| Terminations: | Screw Terminals | Solder Tags | Solder Tags |
| Switching: | S.P. Push to make Slow momentary action | S.P.C.O. Momentary Action (Microswitch) | S.P.C.O. Momentary Action (Microswitch) |
| Max. Rating: | 1A, 50V | 5A, 250 V a.c. | 5A, 250 V a.c. |
| Contact Resistance: | $<10 \mathrm{~m} \Omega$ | $<10 \mathrm{~m} \Omega$ | $<10 \mathrm{~m} \Omega$ |
| Insulation Resistance: | $>10^{5} \mathrm{M} \Omega$ | $>10^{3} \mathrm{M} \Omega$. | $>10^{3} \mathrm{M} \Omega$ |
| Dielectric Strength: | $>1.0 \mathrm{kV}$ a.c. | $>2.0 \mathrm{kV}$ a.c. | $>2.0 \mathrm{kV}$ a.c. |
| O perating Temp. Range: | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ |
| Sealing (Front of panel only): | Protection Classification: IP68 EN60529 1992 (Terminals not sealed) | Protection Classification: IP66 EN60529 1992 (Micro switch not sealed) | - |
| O perations Mechanical: Electrical: | $1,000,000(\mathrm{~min})$ $30,000(\mathrm{~min})$ | $1,000,000(\mathrm{~min})$ $35,000(\mathrm{~min})$ | $\begin{aligned} & 250,000(\mathrm{~min}) \\ & 35,000(\mathrm{~min}) \end{aligned}$ |
| O perating Pressure: | 7.5 N (typ) | 4.7N (typ) | 2.7N (typ) |
| Rear Nut Fixing Torque: | 0.57 Nm | 0.57 Nm | - |
| Materials <br> Mouldings: Tags/Terminations: Switch Body \& Button: | Glass Filled Nylon Brass, Silver Plated Stainless Steel | Glass Filled Nylon Brass, Tin Plated Stainless Steel | Glass Filled Nylon <br> Brass, Tin Plated <br> Stainless Steel |
| Contacts: | Brass, Silver Plated, Silver | Fine Silver | Fine Silver |
| Variants: | - | Engraved Button, Non-Rotating Button, details on request | Engraved Button, Non-Rotating Button, details on request |

Push Button




## Push Button



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


## FRONT PANEL MOUNTING

SX0904/Col
(Secled to IP66)

- Front Panel Sealed to IP66
- S.P.C.O. Microswitch
- Solder Tags
-5A, 250V a.c.
- Black Anodised Aluminium Body
- Black, red or green Buttons

- SM0357 S.P.C.O. SM0365 S.P.M.B.
- Solder Tags
- SM0357-2A, 250V a.c. SM0365-3A, 250V a.c.


| Specification | MP0022/Colour | SX0904/Colour | SM0357, SM0365 |
| :---: | :---: | :---: | :---: |
| Terminations: | Solder Tags | Solder Tags | Solder Tags |
| Switching: | S.P. Push to Make Slow Momentary Action | S.P.C.O. Momentary Action (Microswitch) | SM0357 S.P.C.O. 2 pairs contacts SM0365 S.P.M.B. push to make 1 pair contacts |
| Max. Rating: | 0.25 A. 250 V a.c., 0.5 A . 110 V a.c., <br> 1 A .0 .1 to 28 V a.c./d.c. | 5A. 250 V a.c. | SM0357 2A, 250 V a.c. SM0365 3A, 250 V a.c. |
| Contact Resistance: | $<15 \mathrm{~m} \Omega$ | $<10 \mathrm{~m} \Omega$ | $<10 \mathrm{~m} \Omega$ |
| Insulation Resistance: | $>10^{4} \mathrm{M} \Omega$ | $>10^{3} \mathrm{M} \Omega$. | $>10^{3} \mathrm{M} \Omega$ |
| Dielectric Strength: | $>2.5 \mathrm{kV}$ a.c. | $>2.0 \mathrm{kV}$ a.c. | $>4.5 \mathrm{kV}$ a.c. |
| O perating Temp. Range: | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ |
| Sealing: |  | Protection Classification IP66 BS5490 1992 (Microswitch not sealed) |  |
| Materials: |  |  |  |
| Moulding: | Nylon | Glass Filled Nylon | Phenolic |
| Tags: | Brass, Silver Plated | Brass, Tin Plated | Brass, Silver Plated |
| Body: | Nylon | Black anodised aluminium | Steel, Zinc Plated |
| Contacts/Terms: | Brass, Silver Plated | Fine Silver | Brass, Silver Plated |
| Variants: | Button Colours: Standard - Black, /WH (White) and /RD (Red). <br> /TERM - (Screw terminals) | Button Colours: Standard - Black, /RD (Red) and /GN (Green). /28 (2.8mm tabs) | /TERM (Screw Terminals), /63 (6.3mm tabs) - (SM0365 only) |



## Toggle



- SM0267/2/PD - D.P.M.B SM0270/2/PD - D.P.C. 0
- Solder tags
- $2 \mathrm{~A}, 250 \mathrm{~V}$ a.c.


| Double Pole List No. | Description | 1 | $2$ |  |
| :---: | :---: | :---: | :---: | :---: |
| SX0780 | Change-over. Centre off | ON | OFF | ON |
| SX0782 | Change-over. Centre off Two position biased off | ON | OFF | ON |
| SX0783 | Change-over <br> Two positions only | ON | - | ON |
| SX0784 | ON/OFF <br> Two positions only | OFF | - | ON |
| SX0787 | Change-over. Two positions only biased to one position | ON | - | ON |


| Specification | SM0267/2/PD, SM0270/2/PD | SX0780 Series |
| :---: | :---: | :---: |
| Terminations: | Solder Tags | Screw Terminals |
| Switching: | SM0267/2/PD - D.P.M.B. <br> 2 pairs of contacts SM0270/2/PD - D.P.C.O. <br> 3 pairs of contacts (Quick Make/Break) | See table for types Slow Make, Slow Break |
| Max. Rating: | $2 \mathrm{~A}, 250 \mathrm{~V}$ a.c. | $10 \mathrm{~A}, 250 \mathrm{~V}$ a.c. <br> $10 \mathrm{~A}, 0-28 \mathrm{~V}$ d.c. (non-reactive circuits) |
| Contact Resistance: | $<10 \mathrm{~m} \Omega$ | $<10 \mathrm{~m} \Omega$ |
| Insulation Resistance: | $>10^{3} \mathrm{M} \Omega$ | $>10^{3} \mathrm{M} \Omega$ |
| Dielectric Strength: | $>3.5 \mathrm{kV}$ a.c. | $>2.5 \mathrm{KV}$ a.c. |
| O perating Temp. Range: | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |
| Materials: Mouldings: Tags: | Phenolic <br> Copper, Silver Plated | Glass Filled Polyester Brass, Silver Plated |
| Contacts/Terms: | Copper Silver Alloy | Copper with Silver face |
| Variants: | - | 163 (6.3mm tabs) |
| Accessories: | SX0550 (see page 175) | SX0550 (see page 175) |



| Specification | SX0550, SX0550/Brass | NX1030, NX1030/B |
| :---: | :---: | :---: |
|  | Water and dust resistant Black PVC cover for use with all Bulgin /PD switches | NX1030 Completely covers toggle NX1030/B Switch toggle protrudes |
| Thread: | 15/32" x 32 TPI. Whit Form, BS84 | 15/32" - 32NS - 2 B |
| O perating Temperature: | $0^{\circ} \mathrm{C}$ to $+60^{\circ} \mathrm{C}$ | $-70^{\circ}$ to $+205^{\circ} \mathrm{C}$ |
| Materials: <br> Boot: Inserts: |  |  |
|  | Black PVC | Silicone rubber |
|  | Glass Filled Nylon SX0550/BRASS: Brass, Nickel Plated | Brass, Nickel Plated |

## Voltage Selectors



| Specification | VS0001 | Vs0002 |
| :---: | :---: | :---: |
| Max. Rating: | 6.3A, 120/240V | 6.3A, 120/240V |
| Insulation Resistance: | $>10^{6} \mathrm{M} \Omega$ | $>10^{6} \mathrm{M} \Omega$. |
| Termination: | 2.8 series tabs/solder tags | 2.8 series tabs/solder tags |
| Temperature Range: | $-20^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |
| 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: | S S 㮩 | SA S 会 |
| Variants: | Other markings, details on request | Other markings, details on request |



