## : ©hipsmall

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# 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 $6 \mathrm{~V}, 12 \mathrm{~V} \& 24 \mathrm{~V}$ together with rear of panel sealing, these options will add that extra dimension to control panel layouts and functionality.

Front Panel Mounting

| 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 <br> 2A, 28Vdc | 5A, 250Vac <br> 2A, 28Vdc |
| Contact Resistance: | $<10 \mathrm{~m} \Omega$ | $<10 \mathrm{~m} \Omega$ |
| Insulation Resistance: | $>10^{3} \mathrm{M} \Omega$ | $>10^{3} \mathrm{M} \Omega$ |
| Dielectric Strength: | $>2.0 \mathrm{kVac}$ | $>2.0 \mathrm{kVac}$ |
| Operating Temp. Range: | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ |
| Sealing (Front of panel only): |  | Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed) |
| Operations |  |  |
| Mechanical: | 1,000,000 (min) | 1,000,000 (min) |
| Electrical: | 35,000 (min) | 35,000 (min) |
| Operating Pressure: | 7.5 N (typ) | 12.5N (typ) |
| Rear Nut Fixing Torque: | 2.5 Nm | 1.13 Nm |
| Materials |  |  |
| Mouldings: | Glass Filled Nylon | Glass Filled Nylon |
| Tags/Terminations: | Brass, Tin Plated | Brass, Tin Plated |
| Switch Body \& Button: | Stainless Steel | Stainless Steel |
| Contacts: | Fine Silver | Fine Silver |
| Thread size: | 1.01 x 26TPI | $1.0 "$ x 26TPI |
| RoHS | Compliant | Compliant |



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


| 0 | Front Panel Sealed to IP66 |
| :--- | :--- |
| 21.5mm diameter |  |
| 0 | S.P.C.O. Microswitch |
| 5A, 250Vac |  |

Sealed to IP66


| 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 <br> 2A, 28Vdc |
| Contact Resistance: | $<10 \mathrm{~m} \Omega$ | $<10 \mathrm{~m} \Omega$ |
| Insulation Resistance: | $>10^{5} \mathrm{M} \Omega$ | $>10^{3} \mathrm{M} \Omega$ |
| Dielectric Strength: | >1.0kVac | >2.0kVac |
| Operating Temp. Range: | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ |
| Sealing (Front of panel only): | Protection Classification: IP68 EN 60529:1992+A2:2013 <br> (Micro switch not sealed) | Protection Classification: <br> IP66 EN60529-1:1992 + A2:2013. <br> (Micro switch not sealed) |
| IP68 rating |  |  |
| 10M for 2 weeks test: | Passed |  |
| Operations |  |  |
| Mechanical: | 1,000,000 (min) | 1,000,000 (min) |
| Electrical: | 30,000 (min) | 35,000 (min) |
| Operating Pressure: | 7.5 N (typ) | 4.7 N (typ) |
| Rear Nut Fixing Torque: | 0.57 Nm | 0.57 Nm |
| Materials |  |  |
| Mouldings: | Glass Filled Nylon | Glass Filled Nylon |
| Tags/Terminations: | Brass, Silver Plated | Brass, Tin Plated |
| Switch Body \& Button: | Stainless Steel | Stainless Steel |
| Contacts: | Brass, Silver Plated, Silver | Fine Silver |
| Thread size: | 0.747 " x 26TPI | $0.747^{\prime \prime} \times 26 \mathrm{TPI}$ |
| RoHS | Compliant | Compliant |




| Front Panel Mounting <br> MPI002- front panel seal to IP66 | 0 0 0 0 0 0 0 0 0 0 | Ring illumination <br> 22 mm diameter <br> Single pole push to make <br> $50 \mathrm{~mA}, 24 \mathrm{Vdc}$ contact rating <br> Red, Green, Amber, Blue, White or <br> dual colour illumination <br> Bright daylight LEDs <br> Independent LED terminals <br> Front panel seal to IP66 <br> Integral supply resistors <br> TVS protection | MPIOOI/TAG/COL A $=32.7$ <br> MPIOOI/TERM/COL $A=31.0 \mathrm{MAX}$. | $\varnothing 19.2 \pm 0.1$ <br> Fixing Details |
| :---: | :---: | :---: | :---: | :---: |



Materials
Switch assembly:
Tags:
Terminals:
Switch Body \& Button:
Lens and Lens Body:
O ring:
Internal seal:
Contact Plate:
Thread size:

0.2Nm Max

UL94V-0 rated Polyamide (Nylon)
Copper Alloy
Copper Alloy
Stainless Steel
Polycarbonate
Nitrile
Silicone
Gold Plated
$18.97 \mathrm{~mm} \times 26 \mathrm{TP}$
ESD Handling precautions must be taken
Compliant

Dual Colour LED Configuration
/D1
/D4

D5

D6






| 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. <br> 2A, 28Vdc | 5A, 250Vac. <br> 2A, 28Vdc |
| Contact Resistance: | $<10 \mathrm{~m} \Omega$ | $<10 \mathrm{~m} \Omega$ |
| Insulation Resistance: | $>10^{3} \mathrm{M} \Omega$ | $>10^{3} \mathrm{M} \Omega$ |
| Dielectric Strength: | >2.0kVac | >2.0kVac |
| Operating Temp. Range: | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ |
| Sealing <br> (Front of panel only): |  | Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed) |
| Operations |  |  |
| Mechanical: | 1,000,000 (min) | 1,000,000 (min) |
| Electrical: | 35,000 (min) | 35,000 (min) |
| Operating Pressure: | 7.5 N (typ) | 12.5 N (typ) |
| Rear Nut Fixing Torque: | 2.5 Nm | 1.13 Nm |
| Materials |  |  |
| Mouldings: | Glass Filled Nylon | Glass Filled Nylon |
| Tags/Terminations: | Brass, Tin Plated | Brass, Tin Plated |
| Switch Body \& Button: | Stainless Steel | Stainless Steel |
| Contacts: | Fine Silver | Fine Silver |
| Thread size: | 1.01 x 26TPI | 0.747 " $\times 26 \mathrm{TPI}$ |
| RoHS | Compliant | Compliant |





| 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. <br> 2A, 28Vdc |
| Contact Resistance: | $<10 \mathrm{~m} \Omega$ | $<10 \mathrm{~m} \Omega$ |
| Insulation Resistance: | $>10^{5} \mathrm{M} \Omega$ | $>10^{3} \mathrm{M} \Omega$ |
| Dielectric Strength: | $>1.0 \mathrm{kVac}$ | >2.0kVac |
| Operating Temp. Range: | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ |
| Sealing <br> (Front of panel only): | Protection Classification: <br> IP68 EN60529-1:1992 + A2:2013. <br> (Micro switch not sealed) ( 10 m for 2 weeks) | Protection Classification: <br> IP66 EN60529-1:1992 + A2:2013. <br> (Micro switch not sealed) |
| Operations |  |  |
| Mechanical: | 1,000,000 (min) | 1,000,000 (min) |
| Electrical: | 35,000 (min) | 35,000 (min) |
| Operating Pressure: | 7.5 N (typ) | 4.7 N (typ) |
| Rear Nut Fixing Torque: | 0.57 Nm | 0.57 Nm |
| Materials |  |  |
| Mouldings: | Glass Filled Nylon | Glass Filled Nylon |
| Tags/Terminations: | Brass, Tin Plated | Brass, Tin Plated |
| Switch Body \& Button: | Stainless Steel | Stainless Steel |
| Contacts: | Brass, Silver Plated, Silver | Fine Silver |
| Thread size: | $0.747^{\prime \prime} \times 26 \mathrm{TPI}$ | $0.747^{\prime \prime} \times 26 \mathrm{TPI}$ |
| RoHS | Compliant | Compliant |



| Specifications | MP0013, MP0033 | MP0013/2, MP0033/2 |
| :---: | :---: | :---: |
| Terminations: | Screw Terminals | Screw Terminals |
| Switching: | S.P. Push to make | S.P. Push to make |
|  | Slow momentary action | Slow momentary action |
| Max. Rating: | 1A, 50Vac/dc | 1A,50Vac/dc |
| Contact Resistance: | $<15 \mathrm{~m} \Omega$ | $<15 \mathrm{~m} \Omega$ |
| Insulation Resistance: | $>10^{4} \mathrm{M} \Omega$ | $>10^{4} \mathrm{M} \Omega$ |
| Dielectric Strength: | $>2.5 \mathrm{kVac}$ | $>2.5 \mathrm{kVac}$ |
| Operating Temp. Range: | $-20^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |
| 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: | Glass Filled Nylon | Glass Filled Nylon |
| Tags/Terminations: | Brass, Silver Plated | Brass, Silver Plated |
| Switch Body \& Button: | Body: Brass, Chrome Plated | Body: Brass, Chrome Plated |
|  | Button: Stainless Steel | Button: Stainless Steel |
| Contacts: | Copper, Silver Plated | Copper, Silver Plated |
| Thread Size: | $0.747^{\prime \prime} \times 26 \mathrm{TPI}$ | $0.747^{\prime \prime} \times 26 \mathrm{TPI}$ |
| RoHS | Compliant | Compliant |

Stainless Steel - Momentary


| 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: | $50 \mathrm{~m} \Omega$ at $1 \mathrm{~A}, 2 \mathrm{~V}$ | $50 \mathrm{~m} \Omega$ at $1 \mathrm{~A}, 2 \mathrm{~V}$ | $50 \mathrm{~m} \Omega$ at $1 \mathrm{~A}, 2 \mathrm{~V}$ |
| Insulation Resistance: | $>10^{3} \mathrm{M} \Omega$ @ 500 Vdc | $>10^{3} \mathrm{M} \Omega$ @ 500 Vdc | $>10^{3} \mathrm{M} \Omega @ 500 \mathrm{Vdc}$ |
| Dielectric Strength: | >2.0kVac | >2.0kVac | >2.0kVac |
| Operating Temp. Range: | $-20^{\circ} \mathrm{C}$ to $+55^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+55^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+55^{\circ} \mathrm{C}$ |
| 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 | 12 Nm |
| 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 |



| 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: | 250 V ac | 250 V ac |
| Contact Resistance: | $50 \mathrm{~m} \Omega$ max. @ 1A, 2V | $50 \mathrm{~m} \Omega$ max. @ 1A, 2V |
| Insulation Resistance: | $>10^{3} \mathrm{M} \Omega$ @ 500Vdc | $>10^{3} \mathrm{M} \Omega$ @ 500 Vdc |
| Dielectric Strength: | $>2.0 \mathrm{kVac}$ | $>2.0 \mathrm{kVac}$ |
| Operating Temp. Range: | $-20^{\circ} \mathrm{C}$ to $+55^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+55^{\circ} \mathrm{C}$ |
| Operations |  |  |
| Mechanical: | 200,000 (min) | 200,000 (min) |
| Electrical: | 30,000 (min) | 30,000 (min) |
| Rear Nut Fixing Torque: | 12Nm | 12Nm |
| Materials |  |  |
| Mouldings: | Nylon | Nylon |
| Tags/Terminations: | Brass, Silver Plated | Brass, Silver Plated |
| Switch Body \& Button: | Stainless Steel | 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 |



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


## Prominent Button

MP0045/3E

- 18 mm bezel diameter
- 16 mm fixing hole diameter
- D.P.C.O.
- 250 V 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: | 250 V ac | 250 V ac |
| Contact Resistance: | $50 \mathrm{~m} \Omega$ max. @ 1A, 2V | $50 \mathrm{~m} \Omega$ max. @ 1A, 2 V |
| Insulation Resistance: | $>10^{3} \mathrm{M} \Omega$ @ 500 Vdc | $>10^{3} \mathrm{M} \Omega$ @ 500 Vdc |
| Dielectric Strength: | >2.0kVac | >2.0kVac |
| Operating Temp. Range: | $-20^{\circ} \mathrm{C}$ to $+55^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+55^{\circ} \mathrm{C}$ |
| Operations |  |  |
| Mechanical: | 200,000 (min) | 200,000 (min) |
| Electrical: | 30,000 (min) | 30,000 (min) |
| Rear Nut Fixing Torque: | 12Nm | 12Nm |
| Materials |  |  |
| Mouldings: | Nylon | Nylon |
| Tags/Terminations: | Brass, Tin Plated | Brass, Tin Plated |
| Switch Body \& Button: | Stainless Steel (Polished) | 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 |



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



## Front Panel Mounting

- Ring Illuminated


MP0045/1D2

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



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




## Key Features



H8300RP - - -

O 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
- 19.2 mm or 22.5 mm mounting holes
- Front panel sealed to IP66
- Raised, flat or domed actuator options


## Approvals and specifications

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

거 (12A 250Vac DP, 13A 250Vac SP
$250 \mathrm{Vac} 1 \mathrm{hp}, 125 \mathrm{Vac} 1 / 2 \mathrm{hp}$
UL $85^{\circ} \mathrm{C}$, file E45221, CSA file LR10990
In house test:
10(10)A 250Vac - Indicative rating only
3 mm contact gap.
Technical data on pages $4 \& 5$ (switches), 6 (indicators).

## Dimensions

8300RP (H terminals shown)



Key Features

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


## Dimensions

C0911VA

| Terminal | Function | Actuator |
| :---: | :---: | :---: | Body Code |  |
| :--- |


A
Stainless steel Chamfer profile bezel

Panel cut-out Panel thickness up to 8.0 mm

| MAV0120 |  |
| :--- | :--- | :--- |



Flush Profile


Top view


$\geq 1000 \mathrm{M} \Omega$
1500 V , AC 50 Hz , 5 Secs
${ }^{*}-25^{\circ} \mathrm{C} \sim+55^{\circ} \mathrm{C}$

500,000 (min)
200,000 (min)

Copper, Gold Plated
Stainless Steel
Silver Alloy
M12x0.75
Compliant


Specification
Terminations:

Switching:
Max Rating:
Contact Resistance:

Insulation Resistance:

Dielectric Strength:
Operating Temp Range:

Operations
Mechanical:
Electrical:

Sealing (Front of Panel Only)

Shock Resistance

Rear Nut Fixing Torque:

Materials
Mouldings:
Tags/Terminations:
Switch Body \& Button:

Contacts:
Thread size:
RoHS

MMP0120/S

P - Solder Tabs
S - Screw Terminal
S.P. Push to make

2A, 36Vdc
$\geq 50 \mathrm{M} \Omega$
$\geq 1000 \mathrm{M} \Omega$
$1500 \mathrm{~V}, \mathrm{AC} 50 \mathrm{~Hz}$, 5 Secs
${ }^{*}-25^{\circ} \mathrm{C} \sim+55^{\circ} \mathrm{C}$

500,000 (min)
200,000 (min)

IP65 or IP67

IK08
0.3 Nm

PBT
Brass, Silver Plated
/SS Stainless Steel

Silver Alloy
M12×1
Compliant

MMP0120/N

P - Solder Tabs
S - Screw Termina
S.P. Push to make

2A, 36Vdc
$\geq 50 \mathrm{M} \Omega$
$\geq 1000 \mathrm{M} \Omega$

1500V, AC 50Hz, 5 Secs

* $-25^{\circ} \mathrm{C} \sim+55^{\circ} \mathrm{C}$

500,000 (min)
200,000 (min)

IP65 or IP67

IK08
0.3 Nm

PBT
Brass, Silver Plated
/N - Nickel Plated Brass

Silver Alloy
M12x1
Compliant




© Raised Domed Profile

- Dot Illumination

Bright daylight LEDs

- 12mm Diameter
- 2A, 36Vac
- IP65 (Front of Panel Only)


MMPI0120

Specification
Terminations:

Switching:
Max Rating:
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:
Sealing (Front of Panel Only)
Shock Resistance

Rear Nut Fixing Torque:

Materials

Mouldings:
Tags/Terminations: Switch Body \& Button:

Contacts:
Thread size:
RoHS

MMPI0120

P - Solder Tabs
S.P. Push to make

2A, 36Vdc

| SS-RD <br> Red | SS-GN <br> Green | NN-RD <br> Red | ABK-RD <br> Red | AG-RD <br> Red |
| :--- | :--- | :--- | :--- | :--- |
| 1.8 V | 2.8 V | 1.8 V | 1.8 V | 1.8 V |
| 15 mA | 15 mA | 15 mA | 15 mA | 15 mA |

/no suffix - No resistor fitted. An Appropriate resistor must be series connected by the user. Voltages as above
/12
$\geq 50 \mathrm{M} \Omega$
$\geq 1000 \mathrm{M} \Omega$
$1500 \mathrm{~V}, \mathrm{AC} 50 \mathrm{~Hz}$, 5 Secs
${ }^{*}-25^{\circ} \mathrm{C} \sim+55^{\circ} \mathrm{C}$

1,000,000 (min)
200,000 (min)
IP65
IK08
0.3 Nm

PBT
Brass, Silver Plated
Stainless Steel Nickel Plated Brass
Body, Black PBT
Button
Black Anodized Body, Green PBT Button

Silver Alloy
M12x1
Compliant


## Examples:

MAV0120/3D $=12 \mathrm{~mm}$ Prominent Actuator, Momentary, Non Illuminated
MAV0120/3D1BL024 $=12 \mathrm{~mm}$ Prominent Actuator, Momentary, Blue Dot Illuminated, 24V
MAV0120/3D2GN012 $=12 \mathrm{~mm}$ Prominent Actuator, Momentary, Green Ring Illuminated, 12V

12mm Miniature Metal/Plastic Domed Pushbutton Switch


## 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

