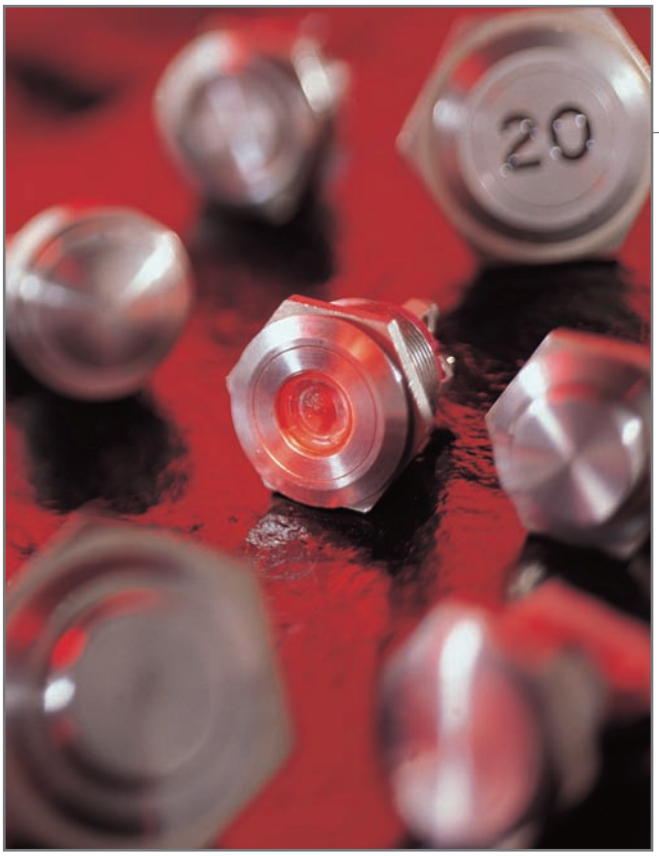

# Switches

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 & 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.

The standard range of vandal resistant switches are complemented by a range of 16mm stainless steel switches of robust construction designed for use in applications where space is at a premium.


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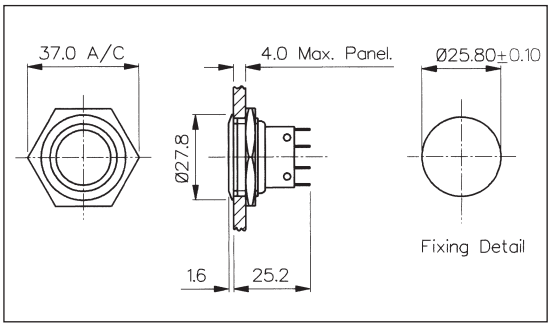
# Stainless Steel Low Profile Vandal Resistant - Momentary

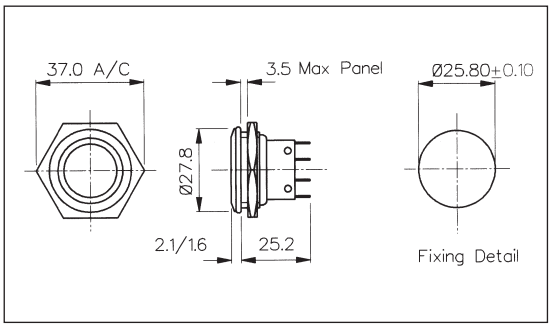
## FRONT PANEL MOUNTING

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

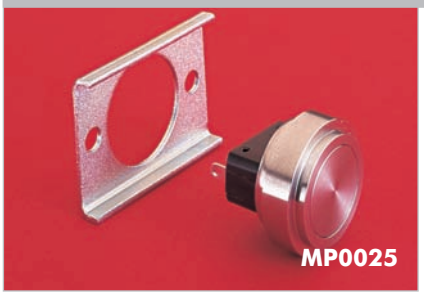



## FRONT PANEL MOUNTING

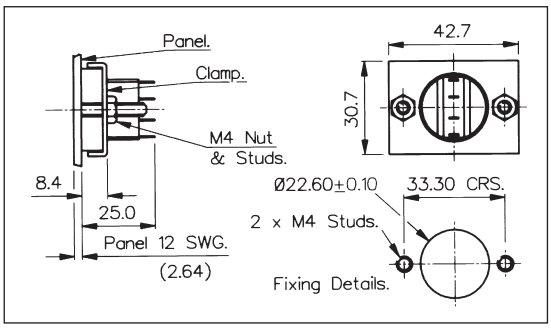
- Front Panel Sealed to IP66
- 28mm diameter
- S.P.C.O. Microswitch
- 5A, 250Vac




## REAR PANEL MOUNTING




- 22mm diameter
- S.P.C.O. Microswitch
- 5A, 250Vac

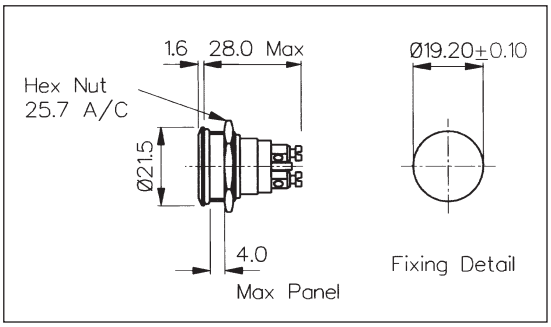



| Specification | MP0027 | MP0038 | MP0025 |
|---|---|---|---|
| Terminations: | Solder Tags | Solder Tags | Solder Tags |
| Switching: | S.P.C.O. Momentary Action (Microswitch) | S.P.C.O. Momentary Action (Microswitch) | S.P.C.O. Momentary Action (Microswitch) |
| Max. Rating: | 5A, 250Vac<br>2A, 28Vdc | 5A, 250Vac<br>2A, 28Vdc | 5A, 250Vac<br>2A, 28Vdc |
| Contact Resistance: | <10mΩ | <10mΩ | <10mΩ |
| Insulation Resistance: | $>10^3$ MΩ | $>10^3$ MΩ. | $>10^3$ MΩ |
| Dielectric Strength: | >2.0kVac | >2.0kVac | >2.0kVac |
| 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 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) |
| Operating Pressure: | 7.5N (typ) | 12.5N (typ) | 6.1N (typ) |
| Rear Nut Fixing Torque: | 2.5Nm | 1.13Nm | - |
| 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 |
| Thread size: | 1.0" x 26TPI | 1.0" x 26TPI | - |
| RoHS | Compliant | Compliant | Compliant |

# Stainless Steel Low Profile Vandal Resistant - Momentary

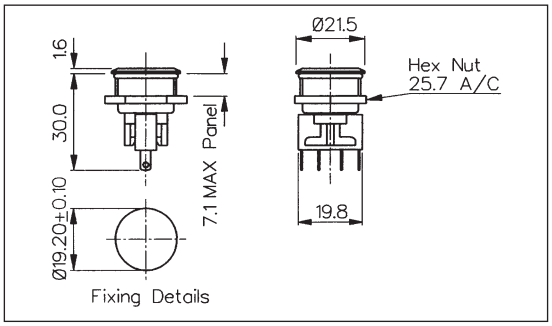
## FRONT PANEL MOUNTING

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

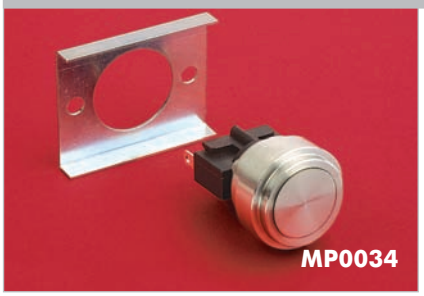



## FRONT PANEL MOUNTING

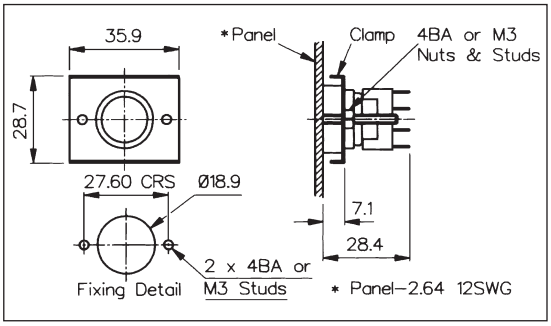
- Front Panel Sealed to IP66
- 21.5mm diameter
- S.P.C.O. Microswitch
- 5A, 250Vac




## REAR PANEL MOUNTING




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

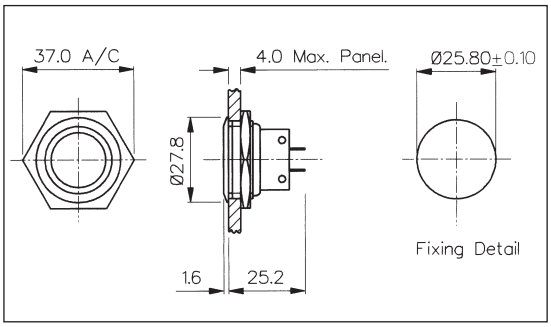



| Specification | MP0037 | MP0031 | MP0034 |
|---|---|---|---|
| Terminations: | Screw Terminals | Solder Tags | Solder Tags |
| Switching: | S.P. Push to make Momentary action | S.P.C.O. Momentary Action (Microswitch) | S.P.C.O. Momentary Action (Microswitch) |
| Max. Rating: | 1A, 50Vac/dc | 5A, 250Vac<br>2A, 28Vdc | 5A, 250Vac<br>2A, 28Vdc |
| Contact Resistance: | <10mΩ | <10mΩ | <10mΩ |
| Insulation Resistance: | $>10^5$ MΩ | $>10^3$ MΩ. | $>10^3$ MΩ |
| Dielectric Strength: | >1.0kVac | >2.0kVac | >2.0kVac |
| 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: IP68 EN60529 1992 (Terminals not sealed) | Protection Classification: IP66 EN60529 1992 (Micro switch not sealed) | |
| Operations | | | |
| Mechanical: | 1,000,000 (min) | 1,000,000 (min) | 250,000 (min) |
| Electrical: | 30,000 (min) | 35,000 (min) | 35,000 (min) |
| Operating Pressure: | 7.5N (typ) | 4.7N (typ) | 2.7N (typ) |
| Rear Nut Fixing Torque: | 0.57Nm | 0.57Nm | - |
| Materials | | | |
| Mouldings: | Glass Filled Nylon | Glass Filled Nylon | Glass Filled Nylon |
| Tags/Terminations: | Brass, Silver Plated | Brass, Tin Plated | Brass, Tin Plated |
| Switch Body & Button: | Stainless Steel | Stainless Steel | Stainless Steel |
| Contacts: | Brass, Silver Plated, Silver | Fine Silver | Fine Silver |
| Thread size: | 0.747" x 26TPI | 0.747" x 26TPI | - |
| RoHS | Compliant | Compliant | Compliant |

# Stainless Steel Low Profile Vandal Resistant - Latching

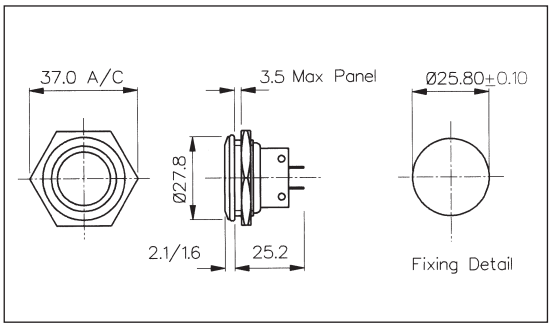
## FRONT PANEL MOUNTING

- 28mm diameter
- 2A, 50Vac/dc
- Single pole push to make
- Latching switch

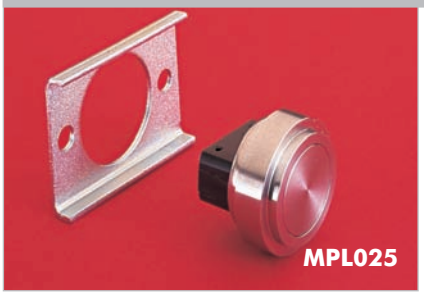



## FRONT PANEL MOUNTING

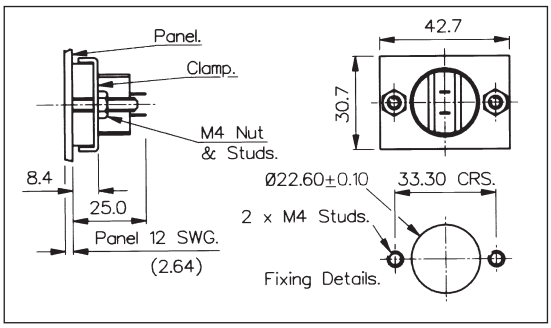
- Front Panel Sealed to IP66
- 28mm diameter
- 2A, 50Vac/dc
- Single pole push to make
- Latching switch




## REAR PANEL MOUNTING




- 22mm diameter
- 2A, 50Vac/dc
- Single pole push to make
- Latching switch

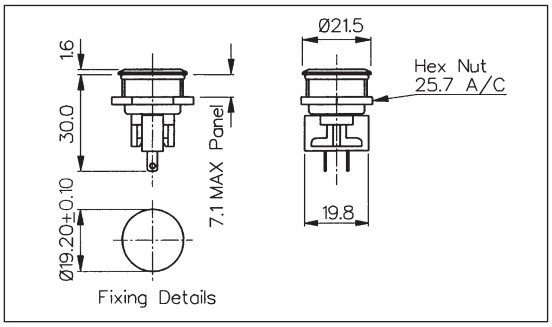



| Specification | MPL027 | MPL038 | MPL025 |
|---|---|---|---|
| Terminations: | Solder Tags | Solder Tags | Solder Tags |
| Switching: | S.P.M.B. - Latching | S.P.M.B. - Latching | S.P.M.B. - Latching |
| Max. Rating: | 2A, 50Vac/dc | 2A, 50Vac/dc | 2A, 50Vac/dc |
| Contact Resistance: | <10mΩ | <10mΩ | <10mΩ |
| Insulation Resistance: | >$10^3$ MΩ | >$10^3$ MΩ. | >$10^3$ MΩ |
| Dielectric Strength: | >2.0kVac | >2.0kVac | >2.0kVac |
| 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 1992 (Switch not sealed) | - |
| Operations | | | |
| Mechanical: | 8,000 (min) | 8,000 (min) | 8,000 (min) |
| Electrical: | 8,000 (min) | 8,000 (min) | 8,000 (min) |
| Operating Pressure: | 5.5N (typ) | 5.5N (typ) | 5.5N (typ) |
| Rear Nut Fixing Torque: | 2.5Nm | 1.13Nm | – |
| 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 |
| Thread size: | 1.0" x 26TPI | 1.0" x 26TPI | - |
| RoHS | Compliant | Compliant | Compliant |

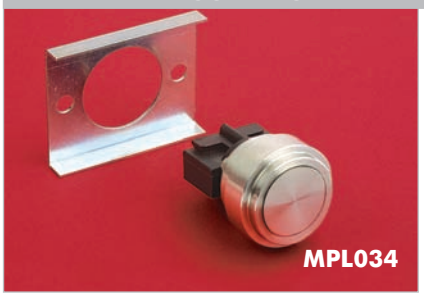
# Stainless Steel Low Profile Vandal Resistant - Latching

## FRONT PANEL MOUNTING

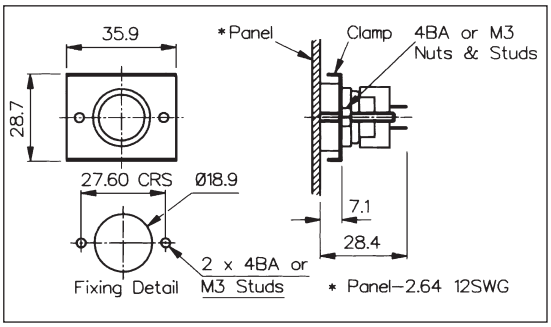
- Front Panel Sealed to IP66
- 21.5mm diameter
- 2A, 50Vac/dc
- Single pole push to make
- Latching switch




## REAR PANEL MOUNTING



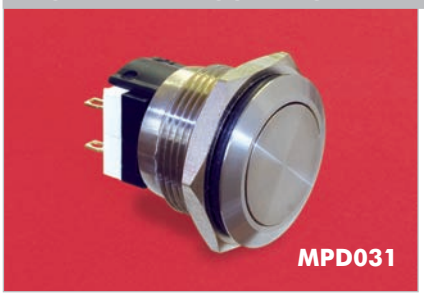

- Rear Panel Mounting
- Flush with Panel
- 19mm diameter
- 2A, 50Vac/dc
- Single pole push to make
- Latching switch



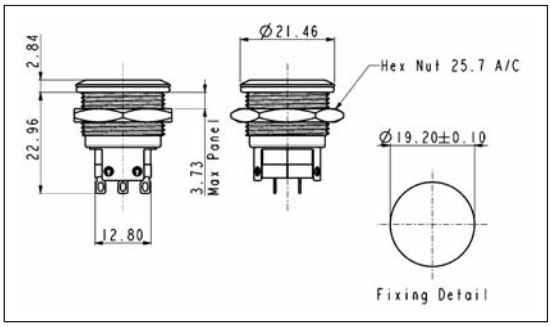

| Specification | MPL031 | MPL034 |
|---|---|---|
| Terminations: | Solder Tags | Solder Tags |
| Switching: | S.P.M.B. - Latching | S.P.M.B. - Latching |
| Max. Rating: | 2A, 50Vac/dc | 2A, 50Vac/dc |
| Contact Resistance: | <10mΩ | <10mΩ |
| Insulation Resistance: | $>10^3$ MΩ | $>10^3$ MΩ |
| Dielectric 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 1992 (Switch not sealed) | |
| Operations | | |
| Mechanical: | 8,000 (min) | 8,000 (min) |
| Electrical: | 8,000 (min) | 8,000 (min) |
| Operating Pressure: | 5.5N (typ) | 5.5N (typ) |
| Rear Nut Fixing Torque: | 0.57Nm | – |
| 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: | 0.747" x 26TPI | - |
| RoHS | Compliant | Compliant |

# Stainless Steel Low Profile Vandal Resistant - Momentary - Double Pole

**FRONT PANEL MOUNTING**




- Front Panel Sealed to IP66
- 21.5mm diameter
- D.P.C.O. Microswitch
- 3A, 125Vac



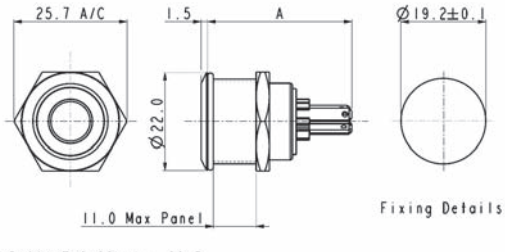

| Specification | MPD031 |
|---|---|
| Terminations: | Solder Tags |
| Switching: | D.P.C.O. Momentary Action (Microswitch) |
| Max. Rating: | 3A, 125Vac |
| Contact Resistance: | 30-100mΩ max. |
| Insulation Resistance: | 100MΩ min. |
| Dielectric Strength: | 1,000VacRMS |
| Operating Temp. Range: | –20°C to +70°C |
| Sealing (Front of panel only): | Protection Classification: IP66 EN60529 1992 (Micro switch not sealed) |
| Operations | |
| Mechanical: | 1,000,000 |
| Electrical: | 10,000 @ 3A, 125Vac |
| Rear Nut Fixing Torque: | 0.57Nm |
| Materials | |
| Mouldings: | Glass Filled Nylon |
| Tags/Terminations: | Brass, Tin Plated |
| Switch Body & Button: | Stainless Steel |
| Contacts: | Brass, Silver Plated |
| Thread size: | 0.747" x 26TPI |
| RoHS | Compliant |

# Stainless Steel Illuminated Vandal Resistant

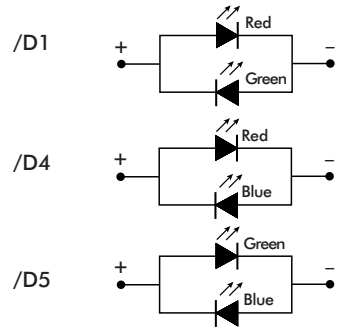
## FRONT PANEL MOUNTING

MPI001- front panel seal to IP66

- 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




Dual Colour LED Configuration

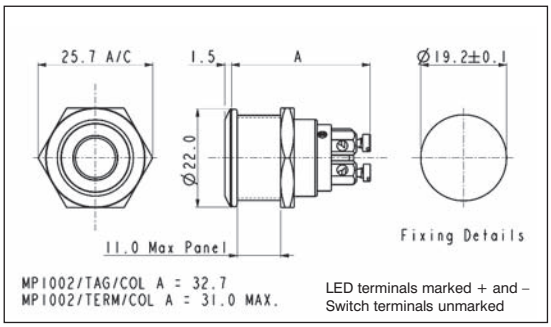


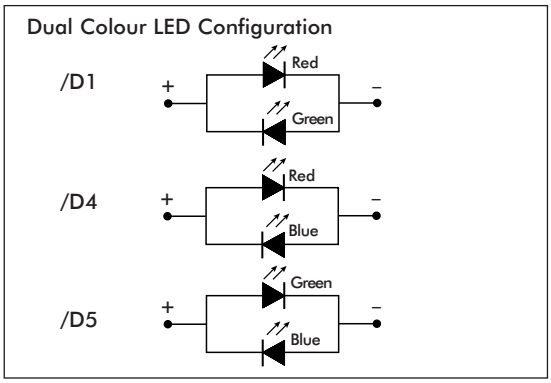

| Specification | MPI001/Termination/Colour/Voltage | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Illumination style: | Dot | | | | | | | |
| Terminations: | /28 (2.8mm tabs), /TERM or /TE (screw terminals) | | | | | | | |
| Switching: | Single pole, push to make, tactile (momentary action) | | | | | | | |
| 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: | $>10^3$ MΩ | | | | | | | |
| Dielectric Strength: | Contact to Panel >2.0kV<br>Contact to Contact 1500V | | | | | | | |
| Operating Temp. Range: | –30°C to +70°C | | | | | | | |
| Sealing (Front of panel only): | Protection Classification: IP66 EN60529 1992 | | | | | | | |
| Operations | | | | | | | | |
| Mechanical: | 750,000 (min) | | | | | | | |
| Electrical: | 35,000 (min) | | | | | | | |
| Operating Pressure: | 12N | | | | | | | |
| Rear Nut Fixing Torque: | 0.57Nm | | | | | | | |
| 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 | | | | | | | |
| | ESD Handling precautions must be taken | | | | | | | |
| RoHS | Compliant | | | | | | | |

# Stainless Steel Illuminated Vandal Resistant

## 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



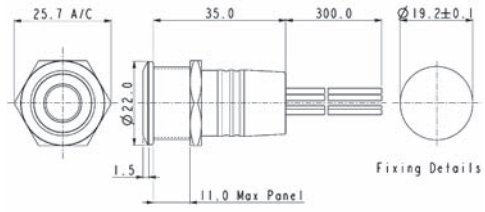




| Specification | MPI002/Termination/Colour/Voltage | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Illumination style: | Ring | | | | | | | |
| Terminations: | /28 (2.8mm tabs),<br>/TERM or /TE (screw terminals) | | | | | | | |
| Switching: | Single pole, push to make, tactile (momentary action) | | | | | | | |
| 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: | $>10^3$ MΩ | | | | | | | |
| Dielectric Strength: | Contact to Panel >2.0kV<br>Contact to Contact 1500V | | | | | | | |
| Operating Temp. Range: | –30°C to +70°C | | | | | | | |
| Sealing (Front of panel only): | Protection Classification: IP66 EN60529 1992 | | | | | | | |
| Operations | | | | | | | | |
| Mechanical: | 750,000 (min) | | | | | | | |
| Electrical: | 35,000 (min) | | | | | | | |
| Operating Pressure: | 12N | | | | | | | |
| Rear Nut Fixing Torque: | 0.57Nm | | | | | | | |
| 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 | | | | | | | |
| | ESD Handling precautions must be taken | | | | | | | |
| RoHS | Compliant | | | | | | | |

# Stainless Steel Illuminated Vandal Resistant with rear of panel IP66 seal

## REAR PANEL SEALED - FLYING LEADS

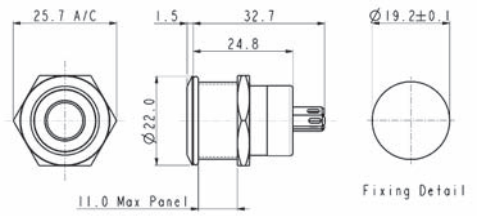
- Dot or ring illumination
- 22mm diameter
- Single pole push to make
- 50mA, 24Vdc contact rating
- Red, Green, Amber, Blue & White illumination
- Bright daylight LEDs
- Independent LED terminals
- Front and rear panel seal to IP66
- Flying lead termination
- TVS protection




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

## REAR PANEL SEALED - SOLDER TAG

- 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



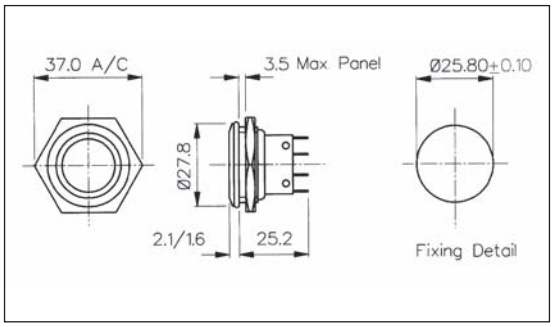

LED terminals marked + and –. Switch terminals unmarked.

| Specification | MPI001/Termination/Colour/Voltage | MPI002/Termination/Colour/Voltage |
|---|---|---|
| Illumination style: | Dot | Ring |
| Terminations: | /FL (Flying leads)<br>/RP (Solder tags) | /FL (Flying leads)<br>/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 |
| Illumination Voltage: | /no suffix No resistor fitted. An appropriate resistor must be series connected by the user. Voltages as above.<br>/6 6Vdc<br>/12 12Vdc<br>/24 24Vdc | /no suffix No resistor fitted. An appropriate resistor must be series connected by the user. Voltages as above.<br>/6 6Vdc<br>/12 12Vdc<br>/24 24Vdc |
| Contact Resistance: | <100mΩ | <100mΩ |
| Insulation Resistance: | $>10^3$ MΩ. | $>10^3$ MΩ. |
| Dielectric Strength: | Contact to panel >2.0kV<br>Contact to contact 1500V | Contact to panel >2.0kV<br>Contact to contact 1500V |
| Operating Temp. Range: | –30°C to +70°C | –30°C to +70°C |
| Sealing (Front & rear of panel): | Protection classification: IP66, EN60529 1992 | Protection classification: IP66, EN60529 1992 |
| 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 |
| Leads: | Tinned, stranded copper conductors | Tinned, stranded copper conductors |
| 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 | ESD Handling precautions must be taken |
| RoHS | Compliant | Compliant |

## Low Profile Brass Chrome Plated Vandal Resistant

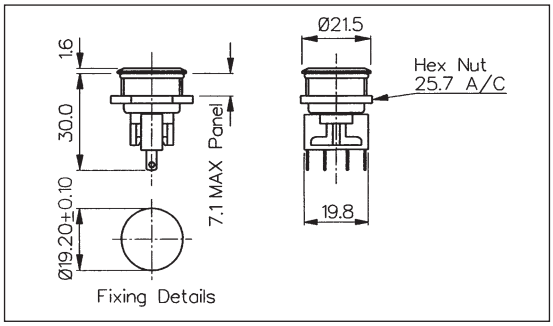
### FRONT PANEL MOUNTING

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



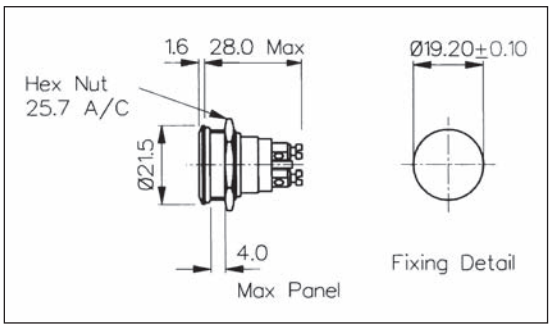

### FRONT PANEL MOUNTING

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




### FRONT PANEL MOUNTING

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

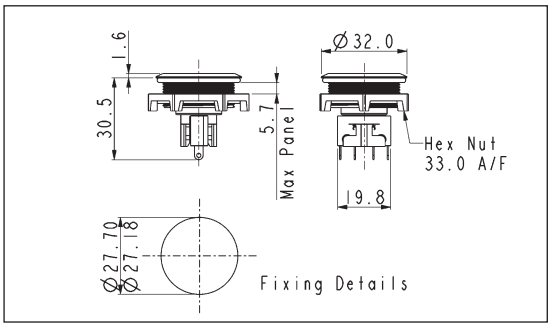



| Specification | MPB038 | MPB031 | MPB037 |
|---|---|---|---|
| Terminations: | Solder Tags | Solder Tags | Screw Terminals |
| Switching: | S.P.C.O. Momentary Action (Microswitch) | S.P.C.O. Momentary Action (Microswitch) | S.P. Push to make Momentary action |
| Max. Rating: | 5A, 250Vac. 2A, 28Vdc | 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 1992 (Micro switch not sealed) | Protection Classification: IP66 EN60529 1992 (Micro switch not sealed) | Protection Classification: IP68 EN60529 1992 (Terminals not sealed) |
| Operations | | | |
| Mechanical: | 1,000,000 (min) | 1,000,000 (min) | 1,000,000 (min) |
| Electrical: | 35,000 (min) | 35,000 (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: | Glass Filled Nylon | Glass Filled Nylon | Glass Filled Nylon |
| Tags/Terminations: | Brass, Tin Plated | Brass, Tin Plated | Brass, Silver Plated |
| Switch Body & Button: | Brass, Chrome Plated | Brass, Chrome Plated | Brass, Chrome Plated |
| 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

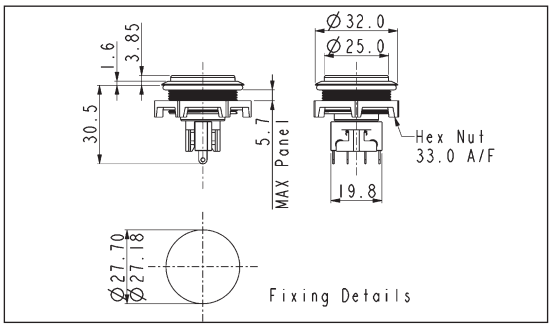
## FRONT PANEL MOUNTING - LOW PROFILE

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




## FRONT PANEL MOUNTING - PROTRUDING PROFILE

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

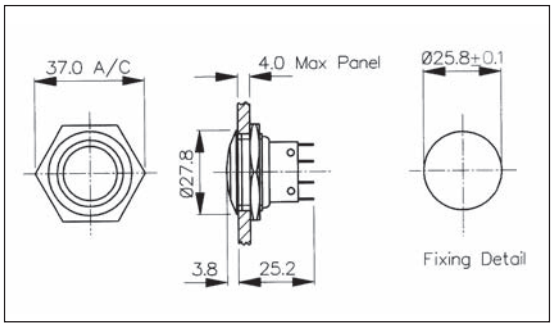



| Specification | MP0050 | MP0050/2 |
|---|---|---|
| Terminations: | Solder Tags | Solder Tags |
| Switching: | S.P.C.O. Momentary Action (Microswitch) | S.P.C.O. Momentary Action (Microswitch) |
| Max. Rating: | 5A, 250Vac.<br>2A, 28Vdc | 5A, 250Vac<br>2A, 28Vdc |
| Contact Resistance: | 10mΩ | 10mΩ |
| 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: IP68 EN60529 1992 (Micro switch not sealed) | Protection Classification: IP68 EN60529 1992 (Micro switch not sealed) |
| Operations | | |
| Mechanical: | 1,000,000 (min) | 1,000,000 (min) |
| Electrical: | 35,000 (min) | 35,000 (min) |
| Operating pressure: | 4.7Nm | 4.7Nm |
| Rear Nut Fixing Torque: | 0.57Nm | 0.57Nm |
| 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: | M27 x 1.0-6H | M27 x 1.0-6H |
| RoHS | Compliant | Compliant |

## Stainless Steel Domed Vandal Resistant

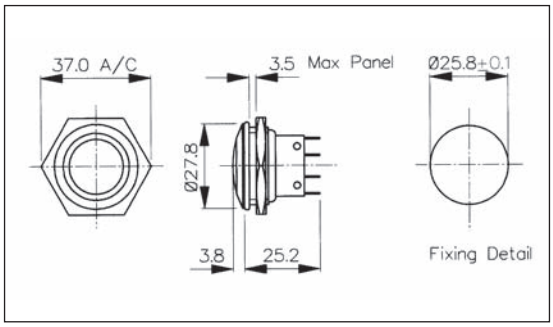
### FRONT PANEL MOUNTING

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

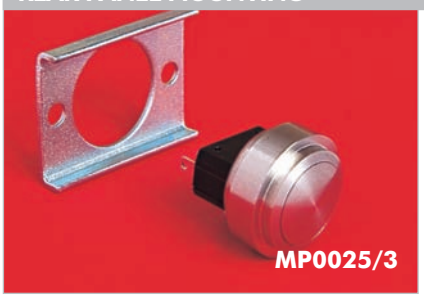



### FRONT PANEL MOUNTING

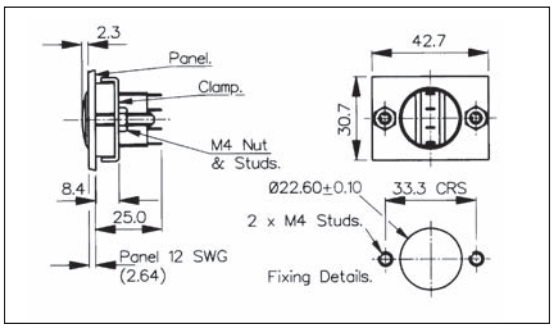
- Front Panel Sealed to IP66
- 28mm diameter
- Domed Profile
- S.P.C.O. Microswitch
- 5A, 250Vac




### REAR PANEL MOUNTING




- 22mm diameter
- Domed Profile
- S.P.C.O. Microswitch
- 5A, 250Vac

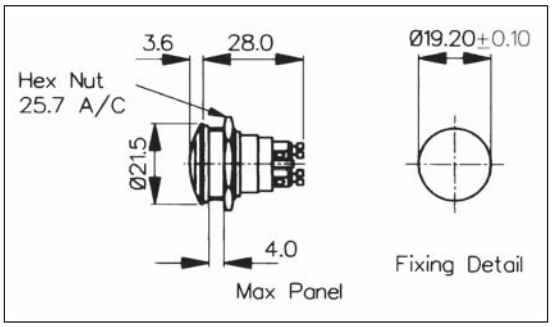



| Specification | MP0027/3 | MP0038/3 | MP0025/3 |
|---|---|---|---|
| Terminations: | Solder Tags | Solder Tags | Solder Tags |
| Switching: | S.P.C.O. Momentary Action (Microswitch) | S.P.C.O. Momentary Action (Microswitch) | S.P.C.O. Momentary Action (Microswitch) |
| Max. Rating: | 5A, 250Vac<br>2A, 28Vdc | 5A, 250Vac<br>2A, 28Vdc | 5A, 250Vac<br>2A, 28Vdc |
| Contact Resistance: | <10mΩ | <10mΩ | <10mΩ |
| Insulation Resistance: | $>10^3$ MΩ | $>10^3$ MΩ. | $>10^3$ MΩ |
| Dielectric Strength: | >2.0kVac | >2.0kVac | >2.0kVac |
| 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 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) |
| Operating Pressure: | 7.5N (typ) | 12.5N (typ) | 6.1N (typ) |
| Rear Nut Fixing Torque: | 2.5Nm | 1.13Nm | - |
| 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 |
| Thread size: | 1.0" x 26TPI | 1.0" x 26TPI | - |
| RoHS | Compliant | Compliant | Compliant |

# Stainless Steel Domed Vandal Resistant

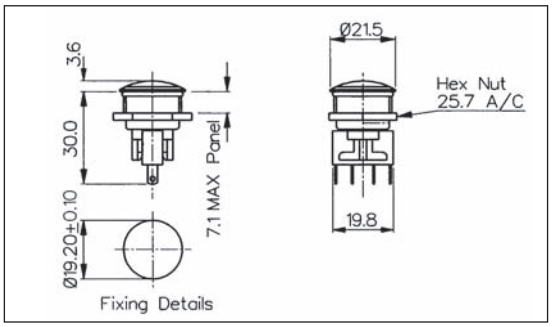
## FRONT PANEL MOUNTING

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



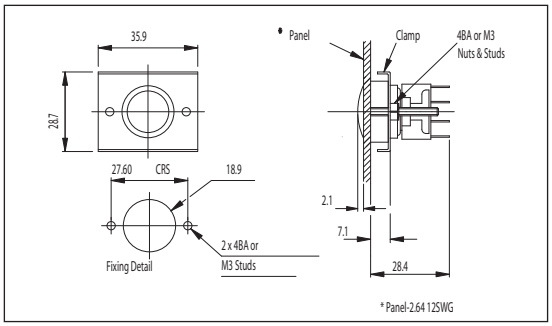

## FRONT PANEL MOUNTING

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




## REAR PANEL MOUNTING

- Rear Panel Mounting
- 19mm diameter
- Domed Profile
- S.P.C.O. Microswitch
- 5A, 250Vac

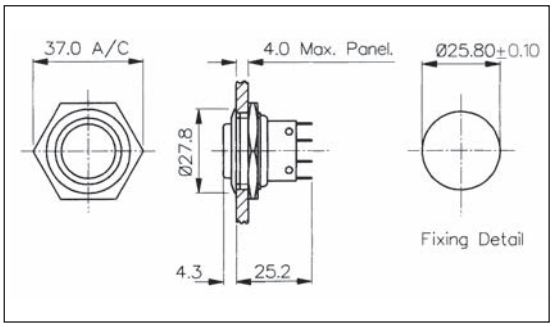



| Specification | MP0037/3 | MP0031/3 | MP0034/3 |
|---|---|---|---|
| Terminations: | Screw Terminals | Solder Tags | Solder Tags |
| Switching: | S.P. Push to make Momentary action | S.P.C.O. Momentary Action (Microswitch) | S.P.C.O. Momentary Action (Microswitch) |
| Max. Rating: | 1A, 50Vac/dc | 5A, 250Vac<br>2A, 28Vdc | 5A, 250Vac<br>2A, 28Vdc |
| Contact Resistance: | <10mΩ | <10mΩ | <10mΩ |
| Insulation Resistance: | $>10^5$ MΩ | $>10^3$ MΩ. | $>10^3$ MΩ |
| Dielectric Strength: | >1.0kVac | >2.0kVac | >2.0kVac |
| 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: IP68 EN60529 1992 (Terminals not sealed) | Protection Classification: IP66 EN60529 1992 (Micro switch not sealed) | - |
| Operations | | | |
| Mechanical: | 1,000,000 (min) | 1,000,000 (min) | 250,000 (min) |
| Electrical: | 30,000 (min) | 35,000 (min) | 35,000 (min) |
| Operating Pressure: | 7.5N (typ) | 4.7N (typ) | 2.7N (typ) |
| Rear Nut Fixing Torque: | 0.57Nm | 0.57Nm | - |
| Materials | | | |
| Mouldings: | Glass Filled Nylon | Glass Filled Nylon | Glass Filled Nylon |
| Tags/Terminations: | Brass, Silver Plated | Brass, Tin Plated | Brass, Tin Plated |
| Switch Body & Button: | Stainless Steel | Stainless Steel | Stainless Steel |
| Contacts: | Brass, Silver Plated, Silver | Fine Silver | Fine Silver |
| Thread size: | 0.747" x 26TPI | 0.747" x 26TPI | - |
| RoHS | Compliant | Compliant | Compliant |

# Stainless Steel Prominent Button Vandal Resistant

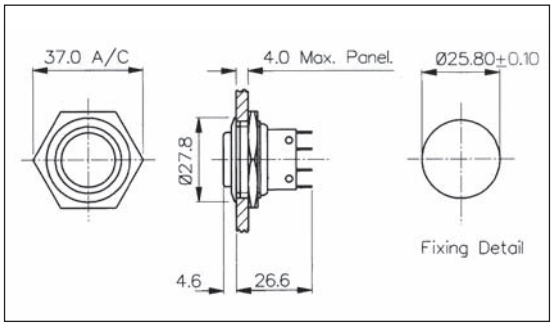
## FRONT PANEL MOUNTING

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



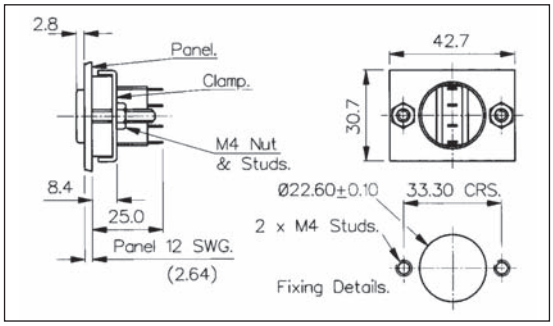

## FRONT PANEL MOUNTING

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




## REAR PANEL MOUNTING

- 22mm diameter
- Prominent Button
- S.P.C.O. Microswitch
- 5A, 250Vac

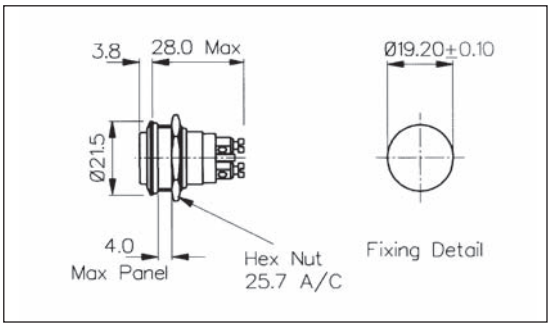



| Specification | MP0027/2 | MP0038/2 | MP0025/2 |
|---|---|---|---|
| Terminations: | Solder Tags | Solder Tags | Solder Tags |
| Switching: | S.P.C.O. Momentary Action (Microswitch) | S.P.C.O. Momentary Action (Microswitch) | S.P.C.O. Momentary Action (Microswitch) |
| Max. Rating: | 5A, 250Vac<br>2A, 28Vdc | 5A, 250Vac<br>2A, 28Vdc | 5A, 250Vac<br>2A, 28Vdc |
| Contact Resistance: | <10mΩ | <10mΩ | <10mΩ |
| Insulation Resistance: | $>10^3$ MΩ | $>10^3$ MΩ. | $>10^3$ MΩ |
| Dielectric Strength: | >2.0kVac | >2.0kVac | >2.0kVac |
| 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 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) |
| Operating Pressure: | 7.5N (typ) | 12.5N (typ) | 6.1N (typ) |
| Rear Nut Fixing Torque: | 2.5Nm | 1.13Nm | - |
| 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 |
| Thread size: | 1.0" x 26TPI | 1.0" x 26TPI | - |
| RoHS | Compliant | Compliant | Compliant |

# Stainless Steel Prominent Button Vandal Resistant

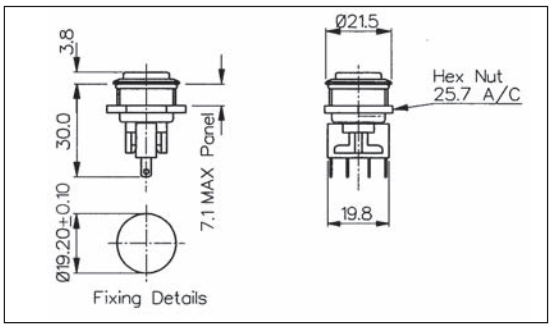
## FRONT PANEL MOUNTING

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



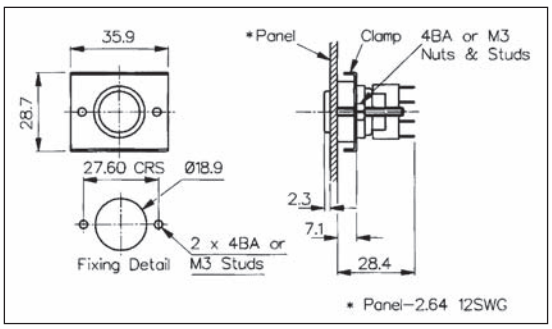

## FRONT PANEL MOUNTING

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




## REAR PANEL MOUNTING

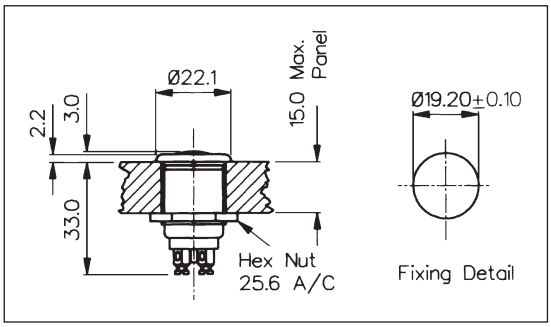
- 19mm diameter
- Prominent Button
- S.PC.O. Microswitch
- 5A, 250Vac




| Specification | MP0037/2 | MP0031/2 | MP0034/2 |
|---|---|---|---|
| Terminations: | Screw Terminals | Solder Tags | Solder Tags |
| Switching: | S.P. Push to make<br>Slow momentary action | S.P.C.O. Momentary Action<br>(Microswitch) | S.P.C.O. Momentary Action<br>(Microswitch) |
| Max. Rating: | 1A, 50Vac/dc | 5A, 250Vac<br>2A, 28Vdc | 5A, 250Vac<br>2A, 28Vdc |
| Contact Resistance: | <10mΩ | <10mΩ | <10mΩ |
| Insulation Resistance: | $>10^5$ MΩ | $>10^3$ MΩ. | $>10^3$ MΩ |
| Dielectric Strength: | >1.0kVac | >2.0kVac | >2.0kVac |
| 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: IP68 EN60529 1992 (Terminals not sealed) | Protection Classification: IP66 EN60529 1992 (Micro switch not sealed) | - |
| Operations | | | |
| Mechanical: | 1,000,000 (min) | 1,000,000 (min) | 250,000 (min) |
| Electrical: | 30,000 (min) | 35,000 (min) | 35,000 (min) |
| Operating Pressure: | 7.5N (typ) | 4.7N (typ) | 2.7N (typ) |
| Rear Nut Fixing Torque: | 0.57Nm | 0.57Nm | - |
| Materials | | | |
| Mouldings: | Glass Filled Nylon | Glass Filled Nylon | Glass Filled Nylon |
| Tags/Terminations: | Brass, Silver Plated | Brass, Tin Plated | Brass, Tin Plated |
| Switch Body & Button: | Stainless Steel | Stainless Steel | Stainless Steel |
| Contacts: | Brass, Silver Plated, Silver | Fine Silver | Fine Silver |
| Thread size: | 0.747" x 26TPI | 0.747" x 26TPI | - |
| RoHS | Compliant | Compliant | Compliant |

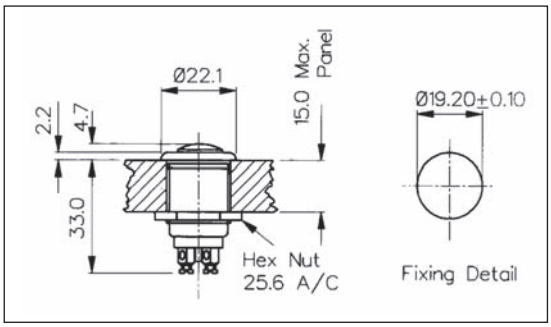
## FRONT PANEL MOUNTING

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




## FRONT PANEL MOUNTING

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

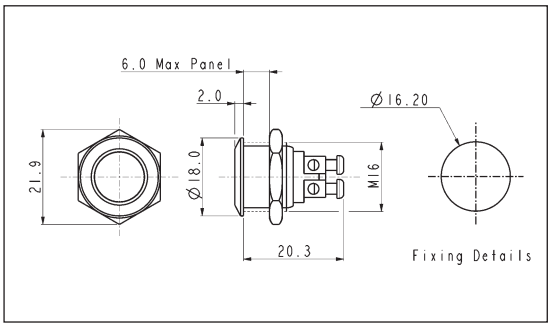



| Specification | MP0013, MP0033 | MP0013/2, MP0033/2 |
|---|---|---|
| Terminations: | Screw Terminals | Screw Terminals |
| Switching: | S.P. Push to make<br>Slow momentary action | S.P. Push to make<br>Slow momentary action |
| Max. Rating: | 1A, 50Vac | 1A, 50Vac |
| Contact Resistance: | <15mΩ | <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: | Glass Filled Nylon | Glass Filled Nylon |
| Tags/Terminations: | Brass, Silver Plated | Brass, Silver Plated |
| Switch Body & Button: | Body: Brass, Chrome Plated<br>Button: Stainless Steel | Body: Brass, Chrome Plated<br>Button: Stainless Steel |
| Contacts: | Copper, Silver Plated | Copper, Silver Plated |
| RoHS | Compliant | Compliant |

# Stainless Steel - Momentary

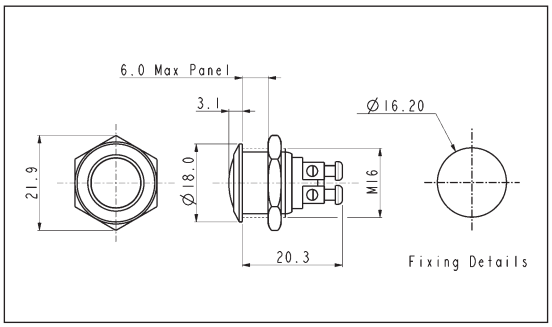
## FLUSH PROFILE

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



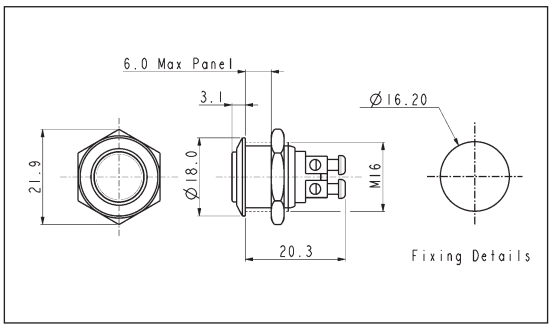

## DOMED PROFILE

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




## PROMINENT BUTTON

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

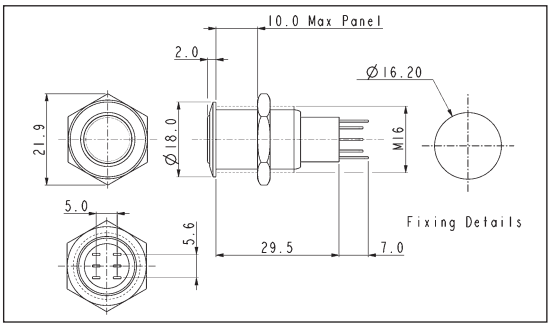



| Specification | MP0042/1 | MP0042/2 | MP0042/3 |
|---|---|---|---|
| Terminations: | Screw Terminals | Screw Terminals | Screw Terminals |
| Switching: | S.P. Push to Make | S.P. Push to Make | S.P. Push to Make |
| Max. Rating: | 2A, 48Vdc | 2A, 48Vdc | 2A, 48Vdc |
| Contact Resistance: | 50mΩ at 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 |
| Variants: | Gold Plated Brass version available | Gold Plated Brass version available | Gold Plated Brass version available |
| RoHS | Compliant | Compliant | Compliant |

## Stainless Steel - Momentary

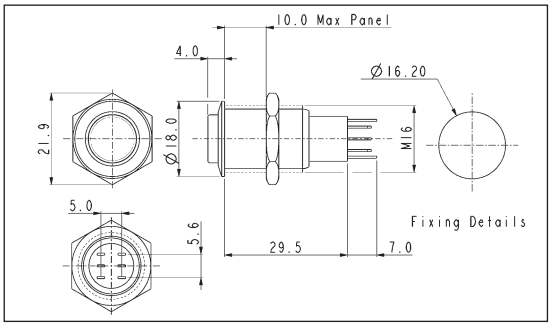
### LOW PROFILE

- 18mm bezel diameter
- 16mm fixing hole diameter
- D.P.C.O
- 3A, 250V

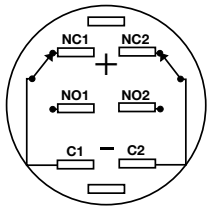



### PROMINENT BUTTON

- 18mm bezel diameter
- 16mm fixing hole diameter
- D.P.C.O
- 3A, 250V




Contact Layout

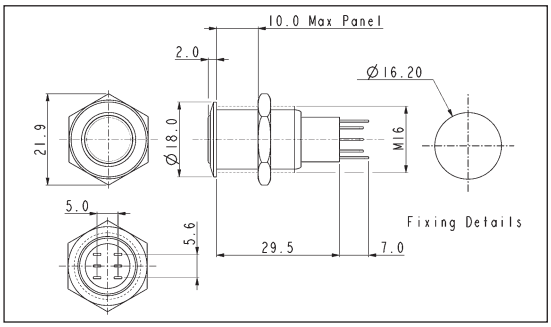



| Specification | MP0045/1D0NN000 | MP0045/3D0NN000 |
|---|---|---|
| Terminations: | Solder tags | Solder Tags |
| Switching: | D.P.C.O Momentary Action | D.P.C.O Momentary Action |
| Max. Rating: | 3A, 250V | 3A, 250V |
| Contact Resistance: | 50mΩ max. @ 1A, 2V | 50mΩ max. @ 1A, 2V |
| Insulation 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: | 200,000 (min) | 200,000 (min) |
| Electrical: | 30,000 (min) | 30,000 (min) |
| Rear Nut Fixing Torque: | 12Nm max. | 12Nm max. |
| 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 |

# Stainless Steel - Latching

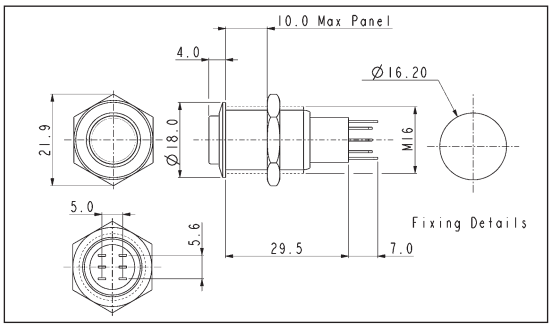
## LOW PROFILE

- 18mm bezel diameter
- 16mm fixing hole diameter
- D.P.C.O.
- 3A, 250Vac

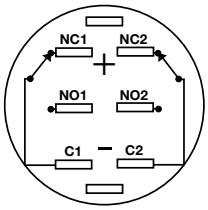



## PROMINENT BUTTON

- 18mm bezel diameter
- 16mm fixing hole diameter
- D.P.C.O.
- 3A, 250Vac




Contact Layout

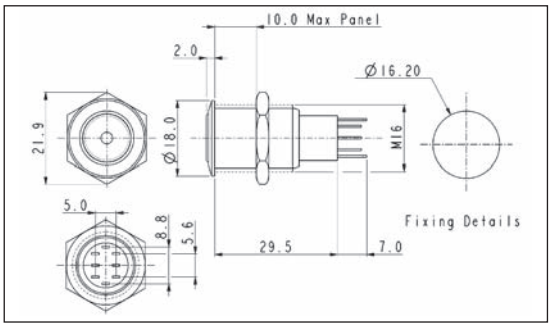



| Specification | MP0045/1E0NN000 | MP0045/3E0NN000 |
|---|---|---|
| Terminations: | Solder Tags | Solder Tags |
| Switching: | D.P.C.O. - Latching Action | D.P.C.O. - Latching Action |
| Max. Rating: | 3A, 250V | 3A, 250V |
| Contact Resistance: | 50mΩ max. @ 1A, 2V | 50mΩ max. @ 1A, 2V |
| Insulation 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: | 200,000 (min) | 200,000 (min) |
| Electrical: | 30,000 (min) | 30,000 (min) |
| Rear Nut Fixing Torque: | 12Nm max. | 12Nm max. |
| Materials | | |
| Mouldings: | Nylon | Nylon |
| Tags/Terminations: | Brass, Tin Plated | Brass, Tin Plated |
| Switch Body & Button: | Stainless Steel (Polished) | Stainless Steel (Polished) |
| Contacts: | Silver | Silver |
| Variants: | Nickel Plated Brass version details on request | Nickel Plated Brass version details on request |
| RoHS | Compliant | Compliant |

# Stainless Steel Illuminated Momentary

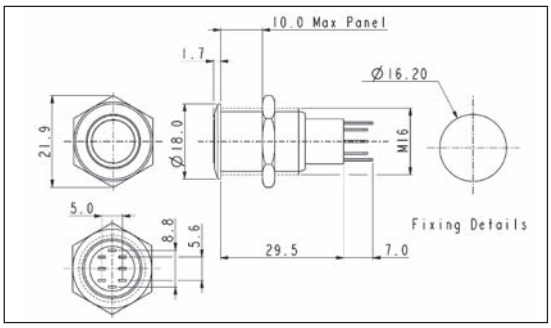
## FRONT PANEL MOUNTING

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

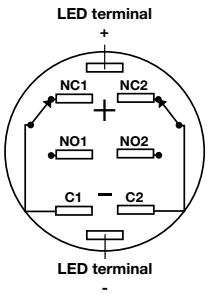



## FRONT PANEL MOUNTING

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




Contact Layout

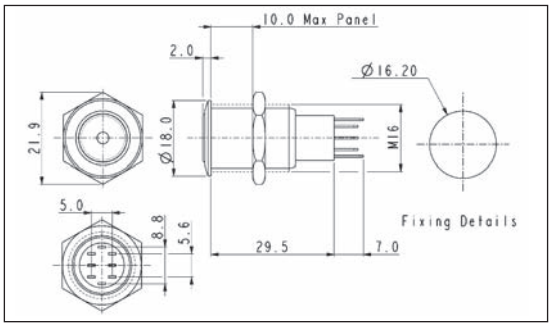



| Specification | MP0045/1D1/Colour/Voltage | MP0045/1D2/Colour/Voltage |
|---|---|---|
| Terminations: | Solder Tags | Solder Tags |
| Illumination: | Dot | Ring |
| Switching: | D.P.C.O. Momentary Action | D.P.C.O. Momentary Action |
| Max. Switch Rating: | 3A, 250Vac | 3A, 250Vac |
| LEDs | | |
| Colours | Red Green Amber Blue | Red Green Amber Blue |
| Part No. | /RD /GN /AM /BL | /RD /GN /AM /BL |
| Voltage | 12Vdc 220Vdc | 12Vdc 220Vdc |
| Part No. | /012 /220 | /012 /220 |
| Contact Resistance: | 50mΩ max. @ 1A, 2Vdc | 50mΩ max. @ 1A, 2Vdc |
| Insulation Resistance: | $>10^3$ MΩ @ 500Vac | $>10^3$ MΩ @ 500Vac |
| Dielectric Strength: | >2.0kVac | >2.0kVac |
| Operating Temp. Range: | –20°C to +55°C | –20°C to +55°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: | Brass, Silver Plated | Brass, Silver Plated |
| Switch Body & Button: | Stainless Steel (Polished) | Stainless Steel (Polished) |
| Variants | Prominent Button, details on request | Prominent Button, details on request |
| RoHS | Compliant | Complaint |

# Stainless Steel Illuminated Latching

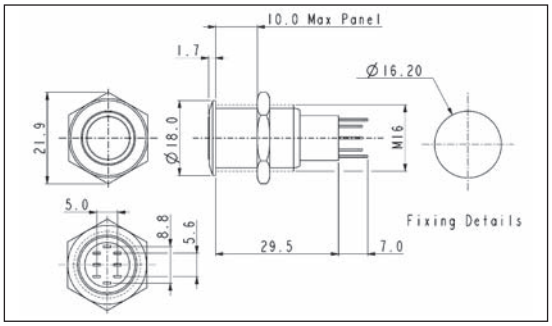
## FRONT PANEL MOUNTING

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

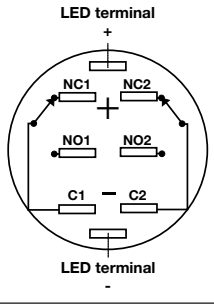



## FRONT PANEL MOUNTING

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




Contact Layout

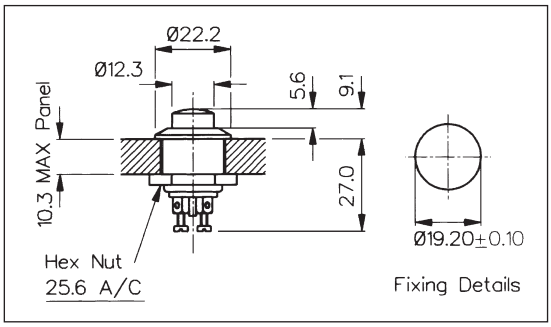



| Specification | MP0045/1E1/Colour/Voltage | MP0045/1E2/Colour/Voltage |
|---|---|---|
| Terminations: | Solder Tags | Solder Tags |
| Illumination: | Dot | Ring |
| Switching: | D.P.C.O. Latching Action | D.P.C.O. Latching Action |
| Max. Switch Rating: | 3A, 250Vac | 3A, 250Vac |
| LEDs | | |
| Colours | Red Green Amber Blue | Red Green Amber Blue |
| Part No. | /RD /GN /AM /BL | /RD /GN /AM /BL |
| Voltage | 12Vdc 220Vdc | 12Vdc 220Vdc |
| Part No. | /012 /220 | /012 /220 |
| Contact Resistance: | 50mΩ max. @ 1A, 2Vdc | 50mΩ max. @ 1A, 2Vdc |
| Insulation Resistance: | $>10^3$ MΩ @ 500Vac | $>10^3$ MΩ @ 500Vac |
| Dielectric Strength: | >2.0kVac | >2.0kVac |
| Operating Temp. Range: | –20°C to +55°C | –20°C to +55°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: | Brass, Silver Plated | Brass, Silver Plated |
| Switch Body & Button: | Stainless Steel (Polished) | Stainless Steel (Polished) |
| Variants | Prominent Button, details on request | Prominent Button, details on request |
| RoHS | Compliant | Complaint |

# Push Button

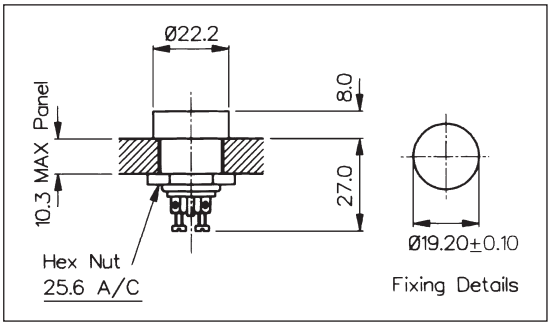
## FRONT PANEL MOUNTING

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



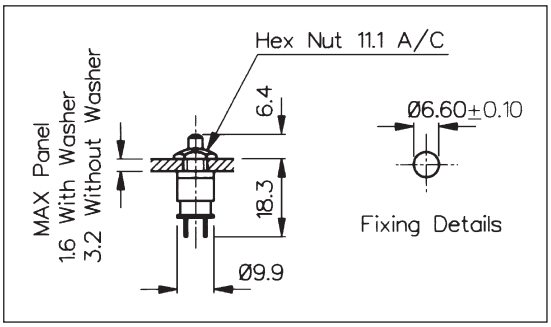

## FRONT PANEL MOUNTING

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




## REAR PANEL MOUNTING

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

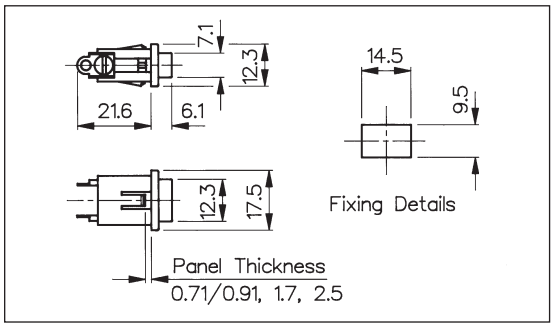



| Specification | MP0012/Colour | MP0012/1/Colour | MP0016/Colour |
|---|---|---|---|
| Terminations: | Screw Terminals | Screw Terminals | Solder Tags |
| Switching: | S.P. Push to Make<br>Slow Momentary Action | S.P. Push to Make<br>Slow Momentary Action | S.P. Push to Make<br>Slow Momentary Action |
| Max. Rating: | 0.25A. 250Vac, 1A. 110Vac,<br>2A. 12Vac/dc | 0.25A. 250Vac, 1A. 110Vac,<br>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 |
| Operatiing Pressure (typ): | 936gms (33ozs) | 936gms (33ozs) | 634gms (22ozs) |
| Materials:<br>Moulding:<br>Body: | <br>Glass Filled Nylon<br>Brass, Chrome Plated | <br>Glass Filled Nylon<br>Brass, Chrome Plated | <br>Glass Filled Nylon<br>Brass, Chrome Plated |
| Contacts/Terms: | Brass, Silver Plated | Brass, Silver Plated | Brass, Silver Plated |
| Variants: | Button Colour: Standard - Black,<br>/RD (Red) | Button Colour: Standard - Black,<br>/RD (Red) | Button Colour: Standard - Black,<br>/RD (Red) |
| RoHS | Compliant | Compliant | Compliant |

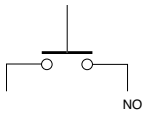
# Push Button

## FRONT PANEL MOUNTING

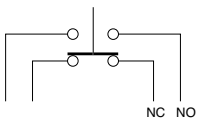
- S.P. Push to Make
- Solder Tags
- Nylon Body & Button



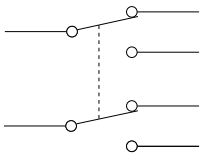

## SWITCH CONTACT OPERATION



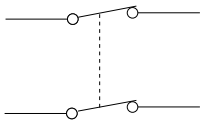

S.P. Push to Make
S.P.M.B.




S.P.C.O.



D.P.C.O.



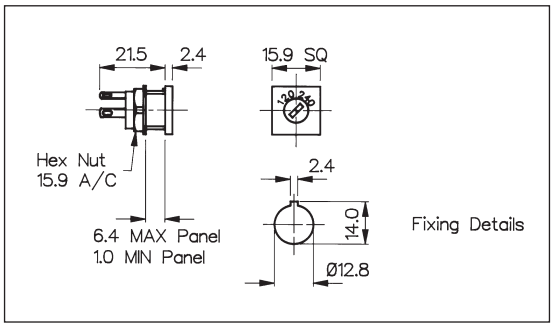
D.P.M.B.

| Specification | MP0022/Colour |
|---|---|
| Terminations: | Solder Tags |
| Switching: | S.P. Push to Make<br>Slow Momentary Action |
| Max. Rating: | 0.25A. 250Vac, 0.5A. 110Vac,<br>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: | Nylon |
| Tags: | Brass, Silver Plated |
| Body: | Nylon |
| Contacts/Terms: | Brass, Silver Plated |
| Variants: | Button Colours: Standard - Black,<br>/WH (White) and /RD (Red).<br>/TERM - (Screw terminals) |
| RoHS | Compliant |

## Voltage Selectors

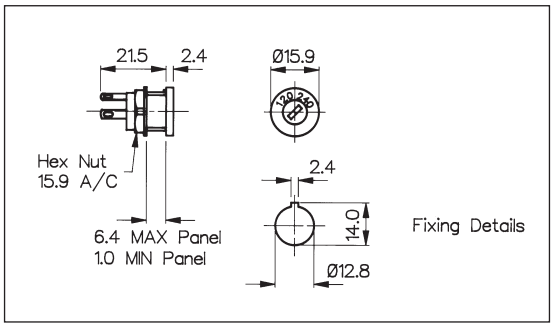
### 120/240V VOLTAGE SELECTOR

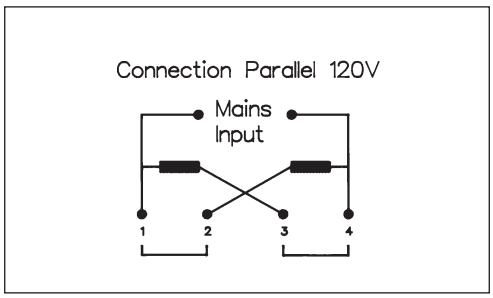
- 2.8 series tabs/solder tags
- Square Front Bezel
- 6.3A
- CSA & VDE approvals

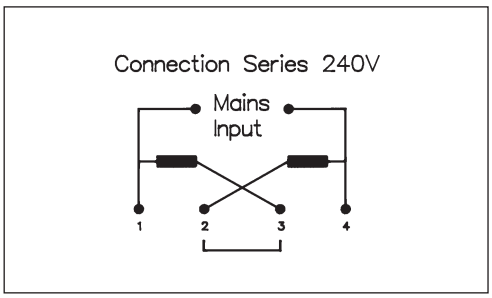



### 120/240V VOLTAGE SELECTOR

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




| Specification | VS0001 | VS0002 |
|---|---|---|
| Max. Rating: | 6.3A, 120/240V | 6.3A, 120/240V |
| Insulation Resistance: | $>10^6$ MΩ | $>10^6$ 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: | Glass Filled Nylon UL94V-1 | Glass Filled Nylon UL94V-1 |
| Tags: | Brass, Silver Plated | Brass, Silver Plated |
| Contacts: | Copper Silver Alloy | Copper Silver Alloy |
| Approvals: | | |
| Variants: | Other markings, details on request | Other markings, details on request |
| RoHS | | Compliant |

LifeElectronics
Живое партнерство

**ООО «ЛайфЭлектроникс»** **“LifeElectronics” LLC**

*ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703*

*Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.*

*С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров*

*Мы предлагаем:*

- *Конкурентоспособные цены и скидки постоянным клиентам.*
- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

*В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.*

*Конструкторский отдел помогает осуществить:*

- *Регистрацию проекта у производителя компонентов.*
- *Техническую поддержку проекта.*
- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

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