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: | >2.0kVac | $>2.0 \mathrm{kVac}$ |
| 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



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

MP0031
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 |



| Specifications | MPI001/Termination/Colour/Voltage |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Illumination style: | Dot |  |  |  |  |  |  |
| Terminations: | /28 (2.8mm tabs), |  |  |  |  |  |  |
|  | /TERM or /TE (screw terminals) |  |  |  |  |  |  |
| Switching: | Single pole, push to make, tactile (momentary action) |  |  |  |  |  |  |
| Max. Switch Rating: | $50 \mathrm{~mA}, 24 \mathrm{Vdc}$ |  |  |  |  |  |  |
| 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 | 900 mcd | $2500 \mathrm{mcd} / 5000 \mathrm{mcd}$ | 2000mcd/850mcd | $4000 \mathrm{mcd} / 2000 \mathrm{mcd}$ |
| Forward Voltage | 1.85 V - 3.5 V | 2.3 V | 3.5 V | 3.6 V | $2.05 \mathrm{~V} / 3.6 \mathrm{~V}$ | $2.0 \mathrm{~V} / 3.6 \mathrm{~V}$ | $3.6 \mathrm{~V} / 3.6 \mathrm{~V}$ |
| Forward Current | 20 mA 20mA | 20 mA | 20 mA | 20 mA | $20 \mathrm{~mA}$ | 20 mA | 20 mA |
| 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: | $<100 \mathrm{~m} \Omega$ |  |  |  |  |  |  |
| Insulation Resistance: | $>10^{3} \mathrm{M} \Omega$ |  |  |  |  |  |  |
| Dielectric Strength: | Contact to Panel $>2.0 \mathrm{kV}$ |  |  |  |  |  |  |
|  | Contact to Contact 1500 |  |  |  |  |  |  |
| Operating Temp. Range: | $-30^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ |  |  |  |  |  |  |
| Sealing (Front of panel only): | Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed) |  |  |  |  |  |  |
| Operations |  |  |  |  |  |  |  |
| Mechanical: | 750,000 (min) |  |  |  |  |  |  |
| Electrical: | 35,000 (min) |  |  |  |  |  |  |
| Operating Pressure: | 12N |  |  |  |  |  |  |
| Rear Nut Fixing Torque: | 0.57 Nm |  |  |  |  |  |  |
| Screw Terminal Torque | 0.2Nm Max |  |  |  |  |  |  |
|  |  |  |  |  |  | Dual Colour LED Configuration |  |
| Materials |  |  |  |  |  |  |  |
| Switch assembly: | UL94V-0 rated Polyamide (Nylon) |  |  |  |  |  | $\cdots \mathrm{Rod}$ |
| Tags: | Copper Alloy |  |  |  |  | /D1 |  |
| Terminals: | Copper Alloy |  |  |  |  |  | Green |
| Switch Body \& Button: | Stainless Steel |  |  |  |  |  |  |
| Lens and Lens Body: | Polycarbonate |  |  |  |  |  | TRe |
| O ring: | Nitrile |  |  |  |  | /D4 | $入^{\text {Red }}$ |
| Internal seal: | Silicone |  |  |  |  | 104 | Ste |
| Contact Plate: | Gold Plated |  |  |  |  |  | 1 Blue |
| Thread size: | $18.97 \mathrm{~mm} \times 26 \mathrm{TPI}$ |  |  |  |  |  |  |
| $\underset{\Delta+\Delta}{\Delta}$ | ESD Handling precautions must be taken |  |  |  |  | /D5 | Creen |
| RoHS | Compliant |  |  |  |  |  | Blua |

Front Panel Mounting

| Specifications | MPI002/Termination/Colour/Voltage |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Illumination style: | Ring |  |  |  |  |  |  |  |
| Terminations: | /28 (2.8mm tabs), |  |  |  |  |  |  |  |
|  | /TERM or /TE (screw terminals) |  |  |  |  |  |  |  |
| Switching: | Single pole, push to make, tactile (momentary action) |  |  |  |  |  |  |  |
| Max. Switch Rating: | $50 \mathrm{~mA}, 24 \mathrm{Vdc}$ |  |  |  |  |  |  |  |
| 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 | 1500 mcd | 900mcd | 2500mcd/5000mcd | 2000mcd/850mcd | 4000mcd/2000mcd |
| Forward Voltage | 1.85 V | 3.5 V | 2.3 V | 3.5 V | 3.6 V | $2.05 \mathrm{~V} / 3.6 \mathrm{~V}$ | $2.0 \mathrm{~V} / 3.6 \mathrm{~V}$ | $3.6 \mathrm{~V} / 3.6 \mathrm{~V}$ |
| Forward Current | 20 mA | 20 mA | 20mA | 20 mA | 20 mA | 20 mA | 20mA | 20 mA |
| 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: | $<100 \mathrm{~m} \Omega$ |  |  |  |  |  |  |  |
| Insulation Resistance: | $>10^{3} \mathrm{M} \Omega$ |  |  |  |  |  |  |  |
| Dielectric Strength: | Contact to Panel $>2.0 \mathrm{kV}$ |  |  |  |  |  |  |  |
|  | Contact to Contact 1500 |  |  |  |  |  |  |  |
| Operating Temp. Range: | $-30^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$ |  |  |  |  |  |  |  |
| Sealing (Front of panel only): | Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed) |  |  |  |  |  |  |  |
| Operations |  |  |  |  |  |  |  |  |
| Mechanical: | 750,000 (min) |  |  |  |  |  |  |  |
| Electrical: | 35,000 (min) |  |  |  |  |  |  |  |
| Operating Pressure: | 12N |  |  |  |  |  |  |  |
| Rear Nut Fixing Torque: | 0.57 Nm |  |  |  |  |  |  |  |
| Screw Terminal Torque | 0.2Nm Max |  |  |  |  |  | Dual Colour LED Configuration |  |

## Materials

Switch assembly:
Tags:
Terminals:
Switch Body \& Button:
Lens and Lens Body:
O ring:
Internal seal:
Contact Plate:
Thread size:
$\xrightarrow{A}$
RoHS
L94V-O rated Polyamide (Nylon)
Copper Alloy
Copper Alloy
Stainless Steel
Polycarbonate
Nitrile
Silicone
Gold Plated
$18.97 \mathrm{~mm} \times 26 \mathrm{TPI}$

Dual Colour LED Configuration





| Specifications | MP0050 | MP0050/2 |
| :---: | :---: | :---: |
| Terminations: | Solder Tags | Solder Tags |
| Switching: | S.P.C.O. Momentary Action (Microswitch) | S.P.C.O. Momentary Action (Microswitch) |
| Max. Rating: | 5A, 250Vac. <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: <br> IP66 EN60529-1:1992 + A2:2013. <br> (Micro switch not sealed) | 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: | 4.7 Nm | 4.7N (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: | Fine Silver | Fine Silver |
| Thread size: | M27 x 1.0-6H | M27 x 1.0-6H |
| 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: | $>1.0 \mathrm{kVac}$ | $>2.0 \mathrm{kVac}$ |
| 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: <br> IP68 EN60529-1:1992 + A2:2013. <br> (Micro switch not sealed) ( 10 m for 2 weeks) | 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: | 7.5N (typ) | 4.7N (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 |

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