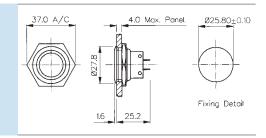
Stainless Steel Low Profile Vandal Resistant



Front Panel Mounting



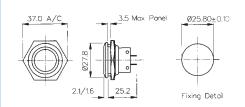
- O 28mm diameter
- S.P.C.O. Microswitch5A, 250Vac





MP0038 Sealed to IP66

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



Specifications	MP0027	MP0038
Terminations:	Solder Tags	Solder Tags
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	5A, 250Vac 2A, 28Vdc	5A, 250Vac 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	$>10^3 \mathrm{M}\Omega$	>10³ MΩ
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	−20°C to +70°C	-20°C to +70°C
Sealing (Front of panel only):		Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations Mechanical: Electrical:	1,000,000 (min) 35,000 (min)	1,000,000 (min) 35,000 (min)
Operating Pressure:	7.5N (typ)	12.5N (typ)
Rear Nut Fixing Torque:	2.5Nm	1.13Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	Glass Filled Nylon Brass, Tin Plated Stainless Steel	Glass Filled Nylon Brass, Tin Plated Stainless Steel
Contacts:	Fine Silver	Fine Silver
Thread size:	1.0" x 26TPI	1.0" x 26TPI
RoHS	Compliant	Compliant

Switches

Stainless Steel Low Profile Vandal Resistant

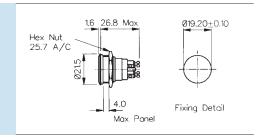
Momentary



Front Panel Mounting

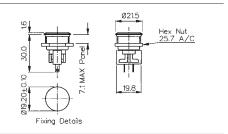


- O Front Panel Sealed to IP68
- O 21.5mm diameter
- O S.P. Push to Make
- 1A, 50Vac/dc
- Industry Standard Size





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



Specifications	MP0037	MP0031
Terminations:	Screw Terminals	Solder Tags
Switching:	S.P. Push to make Momentary action	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	1A, 50Vac/dc	5A, 250Vac 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	$>10^5 \mathrm{M}\Omega$	$>10^3 \mathrm{M}\Omega$
Dielectric Strength:	>1.0kVac	>2.0kVac
Operating Temp. Range:	-20°C to +70°C	-20°C to +70°C
Sealing (Front of panel only): IP68 rating 10M for 2 weeks test:	Protection Classification: IP68 EN 60529:1992+A2:2013 (Micro switch not sealed) Passed	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations Mechanical: Electrical:	1,000,000 (min) 30,000 (min)	1,000,000 (min) 35,000 (min)
Operating Pressure:	7.5N (typ)	4.7N (typ)
Rear Nut Fixing Torque:	0.57Nm	0.57Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	Glass Filled Nylon Brass, Silver Plated Stainless Steel	Glass Filled Nylon Brass, Tin Plated Stainless Steel
Contacts:	Brass, Silver Plated, Silver	Fine Silver
Thread size:	0.747" x 26TPI	0.747" x 26TPI
RoHS	Compliant	Compliant

Stainless Steel Illuminated Vandal Resistant

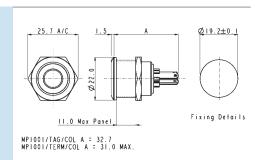






MPI001- front panel seal to IP66

- Dot illumination
- 22mm diameter
- Ô Single pole push to make
- 0 50mA, 24Vdc contact rating
- Red, Green, Amber, Blue, White or dual colour illumination
- \Diamond Bright daylight LEDs
- 0 Independent LED terminals
- Front panel seal to IP66
- \Diamond Integral supply resistors
- TVS protection



Specifications MPI001/Termination/Colour/Voltage

Illumination style:

/28 (2.8mm tabs), Terminations:

/TERM or /TE (screw terminals)

Single pole, push to make, tactile (momentary action) Switching:

Max. Switch Rating: 50mA, 24Vdc

LEDs (ratings @ 20mA)

Part No. /RD /GN /BL /WH /D5 /AM /D1 /D4 Colours White Red/Green Red/Blue Green/Blue Red Green Amber 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 Blue White Black Green Amber Black Black

Illumination Voltage: /no suffix No resistor fitted. An appropriate resistor must be series connected by the user. Voltages as above.

6Vdc /12 /24 24Vdc $<100 m\Omega$

Insulation Resistance: >10³ MΩ

Dielectric Strength: Contact to Panel >2.0kV

Contact to Contact 1500

Operating Temp. Range:

Contact Resistance:

Sealing (Front of panel only):

Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)

Operations Mechanical: 750,000 (min) Electrical: 35,000 (min)

Operating Pressure: 12N Rear Nut Fixing Torque: 0.57Nm

Screw Terminal Torque 0.2Nm Max

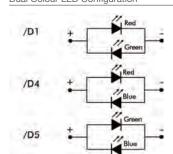
Materials

Switch assembly: UL94V-0 rated Polyamide (Nylon)

Tags: Copper Alloy Terminals: Copper Alloy Switch Body & Button: Stainless Steel Lens and Lens Body: Polycarbonate O ring: Nitrile Internal seal: Silicone Contact Plate: Gold Plated Thread size: 18.97mm x 26TPI

ESD Handling precautions must be taken Compliant

Dual Colour LED Configuration



Stainless Steel Illuminated Vandal Resistant

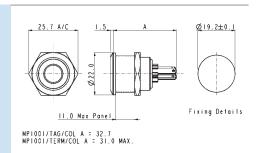






MPI002- front panel seal to IP66

- Ring illumination
- 22mm diameter
- Ô Single pole push to make
- 101 50mA, 24Vdc contact rating
- Red, Green, Amber, Blue, White or dual colour illumination
- \Diamond Bright daylight LEDs
- 0 Independent LED terminals
- Front panel seal to IP66
- \Diamond Integral supply resistors
- TVS protection



Specifications MPI002/Termination/Colour/Voltage

Illumination style:

Terminations:

/28 (2.8mm tabs),

/TERM or /TE (screw terminals)

Switching: Single pole, push to make, tactile (momentary action)

50mA, 24Vdc Max. Switch Rating:

LEDs (ratings @ 20mA)

Part No. /RD /GN /AM /BL /WH /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

/no suffix No resistor fitted. An appropriate resistor must be series connected by the user. Voltages as above. Illumination Voltage:

/6 6Vdc /12 12V/dc 24Vdc /24 <100mΩ $>10^3 M\Omega$

Contact to Panel >2.0kV Dielectric Strenath:

Contact to Contact 1500

Operating Temp. Range:

Contact Resistance:

Insulation Resistance:

-30°C to +70°C

Sealing (Front of panel only): Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)

Operations Mechanical: 750,000 (min) Electrical: 35,000 (min)

Operating Pressure: 12N 0.57Nm Rear Nut Fixing Torque:

Screw Terminal Torque 0.2Nm Max

Materials

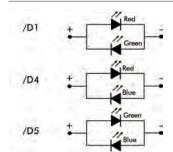
Switch assembly: UL94V-0 rated Polyamide (Nylon)

Copper Alloy Tags: Copper Alloy Terminals: Stainless Steel Switch Body & Button: Lens and Lens Body: Polycarbonate O ring: Internal seal: Nitrile Silicone Contact Plate: Gold Plated Thread size: 18.97mm x 26TPI

ESD Handling precautions must be taken

Compliant

Dual Colour LED Configuration



Stainless Steel Illuminated Vandal Resistant

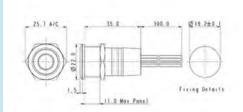


Rear Panel Sealed - Flying Leads



MPI002/FL/xx/x

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



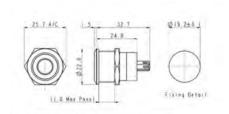
Flying lead colours: LED: red + and black -, Switch contacts: white

Rear Panel Sealed - Solder Tags



MPI001/RP/xx/x

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



LED terminals marked + and -. Switch terminals unmarked.

MPI001/Termination/Colour/Voltage

Illumination style: Dot

Terminations:

Switching: Single pole, push to make, tactile (momentary action)

Max. Switch Rating: 50mA, 24Vdc

LEDs (ratings @ 20mA)

Specifications

Part No. Colours Luminous Intensity Forward Voltage Forward Current Moulding Colour

Illumination Voltage:

Contact Resistance: Insulation Resistance: Dielectric Strength:

Operating Temp. Range:

Sealing (Front of panel only):

Operations Mechanical: Electrical:

Operating Pressure: Rear Nut Fixing Torque:

Materials Switch assembly:

Tags: Terminals:

Switch Body & Button: Lens and Lens Body: O rina: Internal seal: Contact Plate: Thread size:

RoHS

/FL (Flying leads) /RP (Solder tags)

/AM

Amber

/RD /GN Red Green 900mcd 2500mcd 1.85V

20mA

Red

/6

/12

/24

<100mΩ

3.5V 20mA Green

900mcd 2.3V 20mA Amber

Blue 1500mcd 3.5V 20mA Blue

/BL

900mcd 3.6V 20mA White

/WH

White

/no suffix No resistor fitted. An appropriate resistor must be series

connected by the user. Voltages as above.

12Vdc 24Vdc $>10^3 M\Omega$

6Vdc

Contact to Panel >2.0kV Contact to Contact 1500

-30°C to +70°C

Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)

750,000 (min) 35.000 (min)

12N 0.57Nm

UL94V-0 rated Polyamide (Nylon)

Copper Alloy Copper Alloy Stainless Steel Polycarbonate Nitrile Silicone Gold Plated 18.97mm x 26TPI

ESD Handling precautions must be taken

Compliant

MPI002/Termination/Colour/Voltage

Red

/FL (Flying leads) /RP (Solder tags)

Single pole, push to make, tactile (momentary action)

50mA, 24Vdc

/RD /GN Red Green 900mcd 1.85V 3.5V 20mA

2500mcd 20mA Green

900mcd 2.3V 20mA Amber

/AM

Amber

3.5V 20mA Blue

1500mcd

/BL

Blue

3.6V 20mA White

/WH

White

900mcd

/no suffix No resistor fitted. An appropriate resistor must be series connected by the user. Voltages as above.

/6 6Vdc 12Vdc /12 /24 24Vdc $<100m\Omega$ >103 MO

Contact to Panel >2.0kV Contact to Contact 1500

-30°C to +70°C

Protection Classification: IP66 EN60529-1:1992 + A2:2013.

(Micro switch not sealed)

750.000 (min) 35,000 (min)

12N 0.57Nm

UL94V-0 rated Polyamide (Nylon)

Copper Allov Copper Alloy Stainless Steel Polycarbonate Nitrile Silicone Gold Plated 18.97mm x 26TPI

ESD Handling precautions must be taken

Compliant

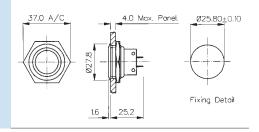
Low Profile Brass Chrome Plated Vandal Resistant







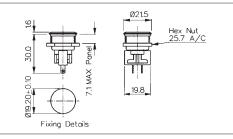
- Front Panel Sealed to IP66
- 0 28mm diameter
- S.P.C.O. Microswitch
- O 5A, 250Vac



Front Panel Mounting



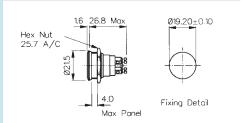
- Front Panel Sealed to IP66
- 21mm diameter
- S.P.C.O. Microswitch
- O 5A, 250Vac



Front Panel Mounting



- Front Panel Sealed to IP68
- 0 21.5mm diameter
- S.P. Push to Make
- 1A, 50Vac/dc



Specifications	MPB038	MPB031	MPB037
Terminations:	Solder Tags	Solder Tags	Screw Terminals
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)	S.P. Push to make Momentary action
Max. Rating:	5A, 250Vac. 2A, 28Vdc	5A, 250Vac. 2A, 28Vdc	1A, 50Vac/dc
Contact Resistance:	<10mΩ	<10mΩ	<10mΩ
Insulation Resistance:	$>10^3 \mathrm{M}\Omega$	>10³ MΩ	$>10^5~\mathrm{M}\Omega$
Dielectric Strength:	>2.0kVac	>2.0kVac	>1.0kVac
Operating Temp. Range:	–20°C to +70°C	–20°C to +70°C	−20°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)	Protection Classification: IP68 EN60529-1:1992 + A2:2013. (Micro switch not sealed) (10m for 2 weeks)
Operations Mechanical: Electrical:	1,000,000 (min) 35,000 (min)	1,000,000 (min) 35,000 (min)	1,000,000 (min) 30,000 (min)
Operating Pressure:	12.5N (typ)	4.7N (typ)	7.5N (typ)
Rear Nut Fixing Torque:	1.13Nm	0.57Nm	0.57Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	Glass Filled Nylon Brass, Tin Plated Brass	Glass Filled Nylon Brass, Tin Plated Brass	Glass Filled Nylon Brass, Tin Plated Brass
Contacts:	Fine Silver	Fine Silver	Brass, Silver Plated, Silver
Thread size:	1.0" x 26TPI	0.747" x 26TPI	0.747" x 26TPI
RoHS	Compliant	Compliant	Compliant

Stainless Steel Large Diameter Vandal Resistant

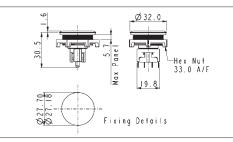


Front Panel Mounting - Low Profile



MP0050

- Front Panel Sealed to IP68
- Flush button32.0mm diameter
- O S.P.C.O. switching
- Momentary action
- O 5A, 250Vac

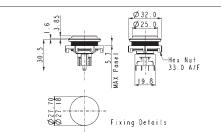


Front Panel Mounting - Protruding Profile



MP0050/2

- Front Panel Sealed to IP68
- Protruding button
- 32.0mm diameterS.P.C.O. switching
- Momentary action5A, 250Vac



Specifications	MP0050	MP0050/2
Terminations:	Solder Tags	Solder Tags
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	5A, 250Vac. 2A, 28Vdc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	$>10^3~{ m M}\Omega$	>10³ MΩ
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	–20°C to +70°C	-20°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations Mechanical: Electrical:	1,000,000 (min) 35,000 (min)	1,000,000 (min) 35,000 (min)
Operating Pressure:	4.7Nm	4.7N (typ)
Rear Nut Fixing Torque:	0.57Nm	0.57Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	Glass Filled Nylon Brass, Tin Plated Stainless Steel	Glass Filled Nylon Brass, Tin Plated Stainless Steel
Contacts:	Fine Silver	Fine Silver
Thread size:	M27 x 1.0-6H	M27 x 1.0-6H
RoHS	Compliant	Compliant

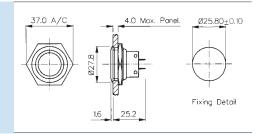
Stainless Steel Domed Vandal Resistant





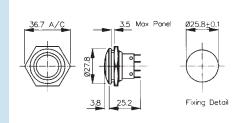


- O 28mm diameter
- O Domed Profile
- S.P.C.O. Mic5A, 250Vac S.P.C.O. Microswitch





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



Specifications	MP0027/3	MP0038/3
Terminations:	Solder Tags	Solder Tags
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	5A, 250Vac. 2A, 28Vdc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	$>10^3 \mathrm{M}\Omega$	$>10^3 \mathrm{M}\Omega$
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	–20°C to +70°C	-20°C to +70°C
Sealing (Front of panel only):		Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations Mechanical: Electrical:	1,000,000 (min) 35,000 (min)	1,000,000 (min) 35,000 (min)
Operating Pressure:	7.5N (typ)	12.5N (typ)
Rear Nut Fixing Torque:	2.5Nm	1.13Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	Glass Filled Nylon Brass, Tin Plated Stainless Steel	Glass Filled Nylon Brass, Tin Plated Stainless Steel
Contacts:	Fine Silver	Fine Silver
Thread size:	1.0" x 26TPI	0.747" x 26TPI
RoHS	Compliant	Compliant

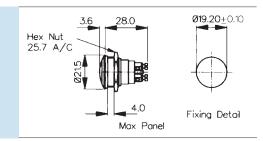
Stainless Steel Domed Vandal Resistant





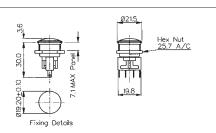


- Front Panel Sealed to IP68
- 21.5mm diameter
- O Domed Profile
- O S.P. Push to Make
- 1A, 50Vac/dc





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



Specifications	MP0037/3	MP0031/3
Terminations:	Screw Terminals	Solder Tags
Switching:	S.P. Push to make Momentary action	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	1A, 50Vac/dc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	$>$ 10 5 M Ω	$>10^3 \mathrm{M}\Omega$
Dielectric Strength:	>1.0kVac	>2.0kVac
Operating Temp. Range:	-20°C to +70°C	−20°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP68 EN60529-1:1992 + A2:2013. (Micro switch not sealed) (10m for 2 weeks)	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations Mechanical: Electrical:	1,000,000 (min) 35,000 (min)	1,000,000 (min) 35,000 (min)
Operating Pressure:	7.5N (typ)	4.7N (typ)
Rear Nut Fixing Torque:	2.5Nm	0.57Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	Glass Filled Nylon Brass, Tin Plated Stainless Steel	Glass Filled Nylon Brass, Tin Plated Stainless Steel
Contacts:	Brass, Silver Plated, Silver	Fine Silver
Thread size:	0.747" x 26TPI	0.747" x 26TPI
RoHS	Compliant	Compliant

Stainless Steel Prominent Button Vandal Resistant

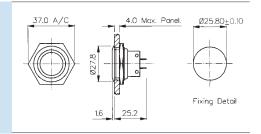






MP0027/2

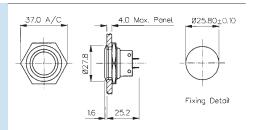
- O 28mm diameter
- 0 Prominent Button
- S.P.C.O. Microswitch
- O 5A, 250Vac



Front Panel Mounting



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



Specifications	MP0027/2	MP0038/2
Terminations:	Solder Tags	Solder Tags
Switching:	S.P.C.O. Momentary Action (Microswitch)	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	5A, 250Vac 2A, 28Vdc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	$>10^3\mathrm{M}\Omega$	$>10^3~\text{M}\Omega$
Dielectric Strength:	>2.0kVac	>2.0kVac
Operating Temp. Range:	-20°C to +70°C	−20°C to +70°C
Sealing (Front of panel only):		Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations Mechanical: Electrical:	1,000,000 (min) 35,000 (min)	1,000,000 (min) 35,000 (min)
Operating Pressure:	7.5N (typ)	12.5N (typ)
Rear Nut Fixing Torque:	2.5Nm	1.13Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	Glass Filled Nylon Brass, Tin Plated Stainless Steel	Glass Filled Nylon Brass, Tin Plated Stainless Steel
Contacts:	Fine Silver	Fine Silver
Thread size:	1.0" x 26TPI	1.0" x 26TPI
RoHS	Compliant	Compliant

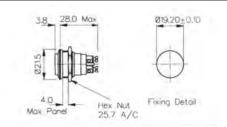
Stainless Steel Prominent Button Vandal Resistant





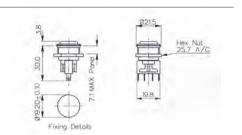


- O Front Panel Sealed to IP68
- 21.5mm diameter
- O Prominent Button
- O S.P. Push to Make
- 1A, 50Vac/dc





- O Front Panel Sealed to IP66
- O 21.5mm diameter
- Prominent Button
- S.P.C.O. Microswitch5A, 250Vac



Specifications	MP0037/2	MP0031/2
Terminations:	Screw Terminals	Solder Tags
Switching:	S.P. Push to make Slow momentary action	S.P.C.O. Momentary Action (Microswitch)
Max. Rating:	1A, 50Vac/dc	5A, 250Vac. 2A, 28Vdc
Contact Resistance:	<10mΩ	<10mΩ
Insulation Resistance:	$>$ 10 5 M Ω	$>10^3 \mathrm{M}\Omega$
Dielectric Strength:	>1.0kVac	>2.0kVac
Operating Temp. Range:	-20°C to +70°C	-20°C to +70°C
Sealing (Front of panel only):	Protection Classification: IP68 EN60529-1:1992 + A2:2013. (Micro switch not sealed) (10m for 2 weeks)	Protection Classification: IP66 EN60529-1:1992 + A2:2013. (Micro switch not sealed)
Operations Mechanical: Electrical:	1,000,000 (min) 35,000 (min)	1,000,000 (min) 35,000 (min)
Operating Pressure:	7.5N (typ)	4.7N (typ)
Rear Nut Fixing Torque:	0.57Nm	0.57Nm
Materials Mouldings: Tags/Terminations: Switch Body & Button:	Glass Filled Nylon Brass, Tin Plated Stainless Steel	Glass Filled Nylon Brass, Tin Plated Stainless Steel
Contacts:	Brass, Silver Plated, Silver	Fine Silver
Thread size:	0.747" x 26TPI	0.747" x 26TPI
RoHS	Compliant	Compliant

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Bulgin:

<u>MP0045/1E2RD012</u> <u>MP0045/1E2GN012</u> <u>MP0045/1E1BL012</u> <u>MP0045/1E1RD012</u> <u>MP0045/1E1GN012</u> <u>MP0045/1E1BL220</u> <u>MP0045/1E2GN220</u> <u>MP0045/1E1GN220</u> <u>MP0045/1E2RD220</u> <u>MP0045/1E1AM220</u> <u>MP0045/1E2AM220</u> <u>MP0045/1E2AM012</u> <u>MP0045/1E1AM012</u> <u>MP0045/1E1RD220</u>