Stainless Steel Illuminated Vandal Resistant
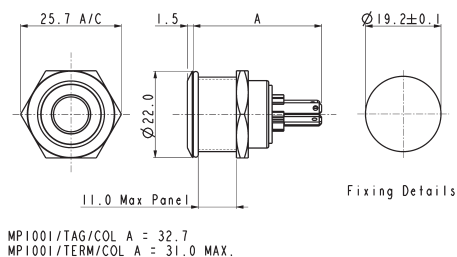LED

bulgin

Front Panel Mounting

MPI001 - front panel seal to IP66

○ Dot illumination
○ 22mm diameter
○ Single Contact 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

```
25.7 A/C        1.5        A            Ø19.2±0.1

                                        Fixing Details
           11.0 Max Panel

MPI001/TAG/COL A = 32.7
MPI001/TERM/COL A = 31.0 MAX.
```
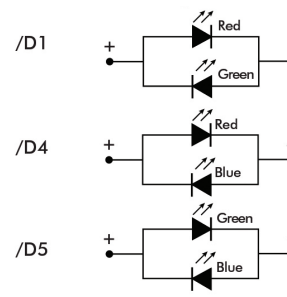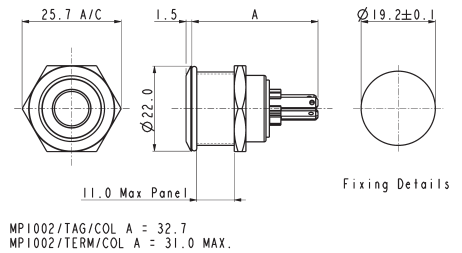
Specifications	MPI001/Termination/Colour/Voltage
Illumination style:	Dot
Terminations:	/28 (2.8mm tabs), /TERM or /TE (screw terminals)
Switching:	Single Contact, push to make, tactile (momentary action)
Max. Switch Rating:	50mA, 24Vdc

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:	>10³ MΩ
Dielectric Strength:	Contact to Panel >2.0kV
	Contact to Contact 1500
Operating Temp. Range:	–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
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
RoHS	Compliant

Dual Colour LED Configuration

```
/D1     + ─▷│── Red
           ─│◁── Green  ─

/D4     + ─▷│── Red
           ─│◁── Blue   ─

/D5     + ─▷│── Green
           ─│◁── Blue   ─
```

bulgin

Front Panel Mounting

○ Ring illumination
○ 22mm diameter
○ Single Contact 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

MPI002- front panel seal to IP66

```
25.7 A/C          1.5        A              Ø19.2±0.1
                                   Ø22.0
         11.0 Max Panel                  Fixing Details
MPI002/TAG/COL A = 32.7
MPI002/TERM/COL A = 31.0 MAX.
```

Specifications — MPI002/Termination/Colour/Voltage

Illumination style: Ring
Terminations: /28 (2.8mm tabs),
/TERM or /TE (screw terminals)
Switching: Single Contact, push to make, tactile (momentary action)

Max. Switch Rating: 50mA, 24Vdc

LEDs (ratings @ 20mA)

Part No.	/RD	/GN	/AM	/BL	/WH	/D1	/D4	/D5	/D6
Colours	Red	Green	Amber	Blue	White	Red/Green	Red/Blue	Green/Blue	Green/White
Luminous Intensity	900mcd	2500mcd	900mcd	1500mcd	900mcd	2500mcd/5000mcd	2000mcd/850mcd	4000mcd/2000mcd	178mcd/450mcd
Forward Voltage	1.85V	3.5V	2.3V	3.5V	3.6V	2.05V/3.6V	2.0V/3.6V	3.6V/3.6V	3.4V/3.2V
Forward Current	20mA	20mA	20mA	20mA	20mA	20mA	20mA	20mA	20mA
Moulding Colour	Red	Green	Amber	Blue	White	Black	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: >10³ MΩ
Dielectric Strength: Contact to Panel >2.0kV
Contact to Contact 1500

Operating Temp. Range: −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
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

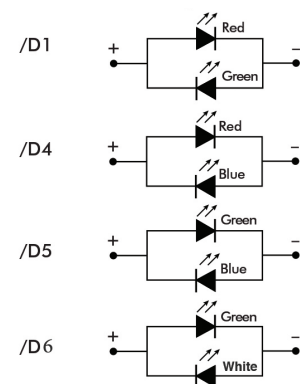RoHS   Compliant

Dual Colour LED Configuration

```
/D1    + ●──▷│── Red ──│◁──● −
              ──│◁── Green ──▷│──

/D4    + ●──▷│── Red ──│◁──● −
              ──│◁── Blue ──▷│──

/D5    + ●──▷│── Green ──│◁──● −
              ──│◁── Blue ──▷│──

/D6    + ●──▷│── Green ──│◁──● −
              ──│◁── White ──▷│──
```

Stainless Steel Illuminated Vandal Resistant
Rear of panel IP66 seal

bulgin

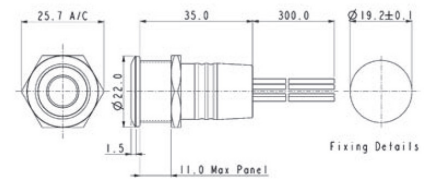## Rear Panel Sealed - Flying Leads

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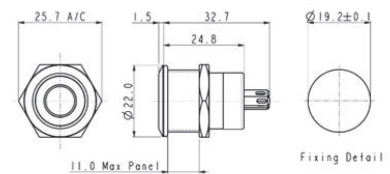- Integral supply resistors
- TVS protection

MPI002/FL/xx/x

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

Rear Panel Sealed - Solder Tags

- Dot or ring illumination
- 22mm diameter
- Single Contact 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

MPI001/RP/xx/x

LED terminals marked + and –. Switch terminals unmarked.

Specifications	MPI001/Termination/Colour/Voltage					MPI002/Termination/Colour/Voltage				
Illumination style:	Dot					Ring				
Terminations:	/FL (Flying leads)					/FL (Flying leads)				
	/RP (Solder tags)					/RP (Solder tags)				
Switching:	Single Contact, push to make, tactile (momentary action)					Single Contact, 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
Moulding Colour	Red	Green	Amber	Blue	White	Red	Green	Amber	Blue	White
Illumination Voltage:	/no suffix No resistor fitted. An appropriate resistor must be series connected by the user. Voltages as above.					/no suffix No resistor fitted. An appropriate resistor must be series connected by the user. Voltages as above.				
	/6 6Vdc					/6 6Vdc				
	/12 12Vdc					/12 12Vdc				
	/24 24Vdc					/24 24Vdc				
Contact Resistance:	<100mΩ					<100mΩ				
Insulation Resistance:	>10³ MΩ					>10³ MΩ				
Dielectric Strength:	Contact to Panel >2.0kV					Contact to Panel >2.0kV				
	Contact to Contact 1500					Contact to Contact 1500				
Operating Temp. Range:	–30°C to +70°C					–30°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:	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				
Terminals:	Copper Alloy					Copper Alloy				
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				

RoHS | Compliant | | | | | Compliant