Bulgin is widely recognised as a leading manufacturer of environmentally sealed connectors & components.

With over 95 years of experience in the industry, Bulgin continues to innovate & develop products and services to cater for its global customer base across a variety of markets.
## Circular Connectors

<table>
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## IEC Connectors

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## Fuse Holders

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## Battery Holders

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## Switches

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## LEDs, Lampholders & Indicators

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<td>IP Rated LEDs &amp; Lampholders</td>
<td>18</td>
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</table>
### ExPlora Series

#### Quick Points

- **Power**
  - Quick start thread coupling
  - ATEX Zone 2 Certified
  - Plug or socket versions
  - 7-13mm dia cable acceptance - EXP-0
  - 14-22mm dia cable acceptance - EXP-A
  - Strain Relief Clamp - EXP-A series
  - Up to 18A, 600V ac/dc rating
  - 2, 3, 4, 5, 7 & 10 pole

#### Body Style & Part

- **Power**
  - Flex Connector - EXP-0911, EXP-A911
  - Flex In-line - EXP-0921, EXP-A921
  - Panel Mount - EXP-0931
  - Panel Mount (with Flange) - EXP-0941

The ExPlora range is most suited to manufacturers of ancillary electrical equipment such as motors, pumps and lighting equipment. These operate in ATEX Zone 2 environments where hazardous or explosive atmospheres can be caused by flammable gases, vapours or combustible dusts.

### Body Style & Part Information

![Image of ExPlora Series parts]

- EXP-0911
- EXP-A911
- EXP-0921
- EXP-A921
- EXP-0931
- EXP-0941
- EXP-0990
- EXP-0991
- EXP-0992

### 900 Series

#### Quick Points

- **Power**
  - Quick start thread coupling
  - Flex Cable Connector
  - Mates with all other styles
  - 2, 3, 4, 5, 7 & 10 pole
  - Plug or Socket
  - 32A, 600V (7 pole 430V)
  - 7-15mm cable acceptance
  - Overall diameter 58mm

#### Body Style & Part

- **Power**
  - Flex Connector - PX0911, PXA911
  - Flex In-line - PX0921, PXA921
  - Panel Mount - PX0931
  - Panel Mount (with Flange) - PX0941

Our most high powered connector in the Buccaneer range capable of up to 32A, 600V ac/dc rating. Sealed up to IP68, the 900 Series features a secure screw thread lock to ensure robust high voltage connections.

### The 900 Series Product Range

![Image of 900 Series parts]

- PX0911
- PXA911
- PX0921
- PXA921
- PX0931
- PX0941
- PX0950
- PX0990
- PX0991
- PX0992
Tried and tested, the Standard Buccaneer is one of our most popular waterproof connectors in the industry today. IP66, IP68 and IP69K rated, these power and data connectors have been designed into a wide range of markets such as Industrial and Marine, setting the gold standard for dust and waterproof circular connectors.

Body Style & Part Information

**Power**
- Flex Connector PX0731
- Flex In-line PX0732
- Pre-wired Flex Connector PX0700
- Front Panel Mount PX0730/P
- Rear Panel Mount PX0709
- PCB Mount PX0707
- Sealing Cap Accessory PX0734, PX0733

**Data - Ethernet**
- Ethernet Patch Cord Flex Connector
  - (Cat5e) PX0836, PX0837, PX0838
  - (Cat6a) PX0896, PX0897, PX0898
- Ethernet Re-wireable Flex Connector
  - (Cat5e) PX0834
  - (Cat6a) PX0894
- Ethernet Panel Mount
  - (Cat5e) PX0833
  - (Cat6a) PX0893
- Ethernet Flanged Panel Mount
  - (Cat5e) PX0870
  - (Cat6a) PX0890
- Ethernet PCB Mount PX0839
- Shield Back Shell Accessory PX0888

**Data - USB**
- Sealed USB Cables - Single Ended PX0840
- Sealed USB Cables – Double Ended PX0841
- USB Front Panel Mount PX0842
- USB Panel Mount (with lead) PX0844
- USB Rear Panel Mount PX0848

The Standard Series Product Range
### 400 Series Quick Points

#### Power
- Screw coupling
- Flex Cable Connector
- 2, 3, 4, 6, 8, 10 & 12 pole
- Pin or Socket inserts
- 1-8A, 50-250V ac/dc
- Cable acceptance 3-7mm
- Overall diameter 19mm

#### Data - Mini USB
- Screw coupling
- Single ended sealed cable assembly
- Fully overmoulded construction (Flex Connector)
- Available in 2, 3 & 4.5 lengths
- 5 way crimp, for use with PC header or rear panel mounting connector with leaded 5 way header (ledged panel mount versions)

#### Data - SMB & Wireless Antenna
- Screw coupling
- Single ended sealed cable assembly
- Fully overmoulded construction (Flex Connector)
- Available in 2, 3 & 4.5m lengths
- 5 way crimp, for use with PC header or rear panel mounting connector with leaded 5 way header (ledged panel mount versions)

A compact and versatile connector within the Buccaneer range, the 400 series is ideal for designs requiring a small footprint. Taking a selection of great features and specifications from the larger Buccaneer family, the 400 series condenses them into a compact form factor giving engineers greater flexibility.

### Body Style & Part Information

#### Power
- Flex Connector PX0410
- Flex In-line PX0411
- Pre wired Flex Cable Connector PX0400, PX0401, PX0402
- Panel Mount PX0412, PX0413
- Sealing Cap Accessory PX0480, PX0480/1, PX0481, PX0484

#### Data - Mini USB
- Flex Connector Standard & Mini A to B PX0441, PX0442
- Flex Connector Mini B to Standard A or Mini A PX0444
- Front Panel Mount Mini B type or Mini AB PX0443, PX0456
- Rear Panel Mount Mini B type or Mini AB PX0446, PX0457
- Rear Panel PCB Mount Mini B type or Mini AB PX0447, PX0458

#### Data - SMB & Wireless Antenna
- Re-Wireable Flex Connector PX0415/1
- Pre - Wireable Flex Connector PX0416
- Panel Mount PX0414
- Sealing Cap PX0480, PX0481, PX0485
- Rear Panel PCB Mount Mini B type or Mini AB PX0480 PX0480/1 PX0481 PX0484
- SMB Antenna PX0407, PX0408, PX0409
- SMB 90 Degree Angled Antenna PX0407/90, PX0408/90, PX0409/90

### The 400 Series Product Range

- PX0410
- PX0411
- PX0444
- PX0441 PX0442
- PX0415/1
- PX0414
- PX0412
- PX0413
- PX0457 PX0446
- PX0458 PX0447
- PX0400
- PX0480 PX0480/1 PX0481 PX0484
- PX0443 PX0445/1
- PX0485 PX0480 PX0484
- PX0407
### 6000 Series

#### Quick Points

<table>
<thead>
<tr>
<th><strong>Power</strong></th>
<th><strong>Data - Ethernet</strong></th>
<th><strong>Data - USB</strong></th>
</tr>
</thead>
</table>
| Metal & Plastic versions  
- Push/pull coupling  
- Flex Cable Connector  
- Mates with all other body styles  
- 2, 3, 8, 16 & 22 pole  
- Plug or Socket  
- 16A, 277 V (max)  
- 4-10mm cable acceptance  
- Overall diameter 32mm | Plastic & Metal versions  
- Push/pull coupling  
- Re-wireable flex Cable Connector  
- Two versions:  
  - for PE & PUR jacket cable  
  - Supplied with shielded RJ45  
  - Sealed through panel  
  - Cat 5e shielded coupler  
  - Standard patch cord can be plugged into rear  
  - Version with earth wire available | Plastic version Only  
- Push/pull coupling  
- Single and double ended sealed cable assembly  
- Flex connector available in 2m, 3m and 5m lengths  
- Ledged with 5 way crimp connector (lead version only) |

Designed and independently tested to IP66, IP68 & IP69K standards, the rapid twist lock 6000 series connectors are ideal for applications where ingress of dust and water must be avoided and where ease of connection, space and appearance are important requirements.

### Body Style & Part Information

#### Power

- Flex Connector PXP6010, PXM6010
- Flex In-line PXP6011, PXM6011
- Panel Mount PXP6012, PXM6012
- Sealing Cap Accessory PXP6081, PXM6081 PXP6082, PXM6082 PXP6083, PXM6083

#### Data - Ethernet & USB

- Ethernet Flex Connector PXP6034, PXM6034
- Ethernet Panel Mount PXP6033TP, PXM6033TP
- Ethernet Overmoulded Flex PXP6037, PXM6038
- USB A/B Flex Connector PXP6040, PXM6041
- USB Panel Mount PXP6042
- USB Panel Mount with lead PXP6043

### The 6000 Series Product Range

![Image of 6000 Series product range](image-url)
### 7000 Series

**Quick Points**
- **Power**
- Metal & Plastic versions
- Rapid twist locking
- 2, 3, 6, 10 & 32 pole
- Plug or Socket
- 25A, 600 V (max)
- 5-15mm cable acceptance
- Overall diameter 42mm

**Available in plastic and metal body constructions, the 7000 Series Buccaneer connectors combine the easy use of a quick coupling mechanism with proven environmental sealing for signal and mains power.**

### The 7000 Series Product Range

- PXM7010
- PXM7011
- PXM7012
- PXP7010
- PXP7011
- PXP7012

### 4000 Series

**Quick Points**
- **Power**
  - Rapid twist lock coupling
  - 2, 3, 4, 6, 8, 10 & 12 pole power up to 600V, 13A
  - Sealed to IP66, IP68 and IP69K when mated
  - Solder and crimp contacts available

- **Data (Micro USB)**
  - Data rates up to 480Mbs
  - USB V2.0 performance
  - Secure, proven locking system
  - Tamperproof Construction
  - EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

**Available in plastic and metal body constructions, the 4000 Series Buccaneer connectors combine the easy use of a quick coupling mechanism with proven environmental sealing for signal and mains power.**

### The 4000 Series Product Range

- PXP4010
- PXP4011
- PXP4013
- PXP4040
- PXP4043
- PXP4081
- PXP4082
- PXP4083
### M-Series

<table>
<thead>
<tr>
<th>Quick Points</th>
<th>Codes:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power &amp; Data</strong></td>
<td></td>
</tr>
<tr>
<td>- Available types: M5, M8, M12, M16 &amp; M23</td>
<td></td>
</tr>
<tr>
<td>- Reliable sensor, actuator and data connectivity solutions</td>
<td></td>
</tr>
<tr>
<td>- Quick and secure screw coupling mechanism</td>
<td></td>
</tr>
<tr>
<td>- Ratings from 1A, 30V ac/dc up to 8A, 250V ac/dc</td>
<td></td>
</tr>
<tr>
<td>- Overmolded cables PVC &amp; PUR</td>
<td></td>
</tr>
<tr>
<td>- IP67 Rating</td>
<td></td>
</tr>
<tr>
<td>- Cable lengths from 1m - 15m</td>
<td></td>
</tr>
</tbody>
</table>

The M-Series Buccaneer range has been designed to offer flexible connectivity solutions for a variety of industrial automation applications. These rugged and robust interconnects are ideal for industries requiring secure and reliable connections.

### The M5 Product Range
- PXMBNI05RPF
- PXMBNI05RPM
- PXMBNI05FPM
- PXPTPU05RAF
- PXPTPU05RAM
- PXPTPU05FBF
- PXPTPU05FIM
- PXPPVC05RAF
- PXPPVC05RAM
- PXPPVC05FBF
- PXPPVC05FIM

### The M8 Product Range
- PXMBNI08RPF
- PXMBNI08FPM
- PXMBNI08FIM
- PXPTPU08FBF
- PXPTPU08RAF
- PXPTPU08RAM
- PXPTPU08FIM
- PXPTPU08FBF
- PXPTPU08RAM
- PXPPVC08RAF
- PXPPVC08RAM
- PXPPVC08FBF
- PXPPVC08FIM

### The M12 Product Range
- PXMBNI12RPF
- PXMBNI12RPM
- PXMBNI12FIM
- PXMBNI12FBF
- PXPTPU12RAF
- PXPTPU12RAM
- PXPTPU12FBF
- PXPTPU12RAM
- PXPPVC12RAF
- PXPPVC12RAM
- PXPPVC12FBF
- PXPPVC12RAM

### The M16 Product Range
- PXMBNI16FIM
- PXMBNI16FBF
- PXMBNI16RPM
- PXMBNI16RPF
- PXPPAM12
- PXMBNI12RPM08X
- PXPTPU12FIM08X
- PXPTPU12FBF08X

### The M23 Product Range
- PXMBNI23FIM
- PXMBNI23FBF
- PXMBNI23RAF
- PXMBNI23FPM

### Distribution Unit Range
- BOX1M1205MA05
- BOX1M1212MA08
- BOX1M1205MA09
As the smallest rugged optical connector available on the market, the 4000 Series Fiber Simplex connector is ideal for outdoor broadcast, FTTX (fiber to the x), server room engineering, civil engineering, marine, aviation and rail applications. The connector's small form factor is particularly useful where installation space is limited or multiple connectors need to be accommodated.

### The 4000 Fiber Series Product Range

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PXF4050</td>
<td>Flex Connector Standard A To C-Type</td>
</tr>
<tr>
<td>PXF4051</td>
<td>Rear Panel Mount C-Type PXF4043/C</td>
</tr>
<tr>
<td>PXF4053</td>
<td>Sealing Cap Accessory PXP4081, PXP4083</td>
</tr>
<tr>
<td>PXF4054XXX</td>
<td>PXF4050, PXF4054, PXF4055</td>
</tr>
<tr>
<td>PXF4055XXX</td>
<td>Flex Inline PXF4051, PXF4054</td>
</tr>
<tr>
<td>PXF4051XX</td>
<td>Panel Mount PXF4053</td>
</tr>
<tr>
<td>PXF4050XXX</td>
<td>Sealing Cap Accessory PXP4081, PXP4082, PXP4083</td>
</tr>
</tbody>
</table>

### Quick Points

- **Data (C-Type USB)**
  - Data rates up to 10 GHz
  - USB V3.1 performance
  - Secure, proven locking system
  - Tamperproof Construction
  - EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

- **Data (Fiber)**
  - Cabled versions 0S1, 0M1, 0M3
  - Cabled 5 to 450M
  - Sealed to IP66, IP68 and IP69K when mated
  - LC-Type fiber interface

- **Data (C-Type USB)**
  - Data rates up to 10 GHz
  - USB V3.1 performance
  - Secure, proven locking system
  - Tamperproof Construction
  - EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

- **Data (Fiber)**
  - Cabled versions 0S1, 0M1, 0M3
  - Cabled 5 to 450M
  - Sealed to IP66, IP68 and IP69K when mated
  - LC-Type fiber interface

### Body Style & Part

- **Data (C-Type USB)**
  - Flex Connector Standard A To C-Type PXF4040/C/1M00
  - Rear Panel Mount C-Type PXP4043/C
  - Sealing Cap Accessory PXP4081, PXP4083

- **Data (Fiber)**
  - Flex Connector PXF4050, PXF4054, PXF4055
  - Flex Inline PXF4051, PXF4054
  - Panel Mount PXF4053
  - Sealing Cap Accessory PXP4081, PXP4082, PXP4083

As the smallest rugged optical connector available on the market, the 4000 Series Fiber Simplex connector is ideal for outdoor broadcast, FTTX (fiber to the x), server room engineering, civil engineering, marine, aviation and rail applications. The connector's small form factor is particularly useful where installation space is limited or multiple connectors need to be accommodated.
### EMI Filters

<table>
<thead>
<tr>
<th>Quick Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Current ratings are from 1 to 10 amps</td>
</tr>
<tr>
<td>- Single or twin fused types</td>
</tr>
<tr>
<td>- Flange, snap to panel</td>
</tr>
<tr>
<td>or base/bulkhead mounting options</td>
</tr>
<tr>
<td>- 2.8 or 6.3mm tabs</td>
</tr>
</tbody>
</table>

Designed to reduce conducted mains borne EMI, this extensive range provides many solutions to EMI problems. To meet individual design requirements the filters are available with one standard filter circuit.

### The EMI Filter Range

- PS00/A
- PS01/A
- PS02/A
- PS02/A
- PS03/A
- PS21/A
- PS25/A
- PS26/A

### Power Entry Modules

<table>
<thead>
<tr>
<th>Quick Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Compact single rectangular mounting hole, flange fixing alternative available for security of screw fixing</td>
</tr>
<tr>
<td>- Vertical and horizontal arrangement</td>
</tr>
<tr>
<td>- Single or double pole variants</td>
</tr>
<tr>
<td>- Illumination options</td>
</tr>
<tr>
<td>- Filtered inlet options</td>
</tr>
</tbody>
</table>

With over 26,000 combinations, Bulgin's Polysnap mains power inlet modules offer a very adaptable and flexible solution to panel design. They allow combinations of mains inlets and outlets, filtered inlets, switches, fuse holders, voltage selectors and indicators to be mounted in either horizontal or vertical format bezels ready for quick snap-fit assembly.

### The Power Entry Module Range

- BZV01
- BZV03/02
- BZV03/07
- BZV04/04
- BZV09/09
- BZV09/04
- BZH01/01
- BZH01/10
- BZH11/00
- BVA01/10
- BVA01/02
- BVB01/01
- BVB01/11
- C14 Inlet Twin fuse
IEC Connectors

Quick Points

- Flange fixing, snap to panel & PCB mounting options
- 250V ac, 10A up to 20A
- 2.8 solder tabs, 4.8 and 6.3 fast on tabs, screw terminal and PC spill versions
- Accessories include insulating boots, retaining clips and safety covers
- Additional colours available

A full range of quality mains rated connectors conforming to IEC and EN 60320 specifications carrying UL, CSA, VDE and other approvals. With electrical ratings up to 20A, 250V (UL) these connectors offer solutions to most mains powered applications.

The IEC Connector Range

- PX0587
- PX0587/SE
- PX0588
- PX0575
- PX0579
- PX0580
- PF0011
- PX0580/PC
- PF0001
- PF0002
- PF0030
- PX0597
- PX0590
- PX0690
- PF0006
- PF0007
- PX0685
- PX0686
- PX0686/SE
- PX0716
- PX0718
- PX0717
- PX0578
- PX0675
- PX0675/SE
- PX0676
- PX0678
- PX0695/PC
- PX0718
- PX0793
- K0006
- 14228
- 12075
- PX0597
- PX0598
- PX0591
- PX0592
- PX0578
- 0717-1-P
- 0717-1S
Bulgin’s extensive range of fuse holders are designed to give the degree of protection demanded in today’s sophisticated electronic equipment. Carrying world-wide safety approvals from UL, VDE, CSA and IMQ, all types are manufactured from high grade flame retardant nylon and polyester materials.

**The Fuse Holder Range**

- Designed primarily for 5 x 20mm and 6.3 x 32mm size fuses
- Protection against shock to categories PC1, PC2 and PC3
- In-line, PCB mounting and panel mounting (screw or snap fit) options available
- Terminal options for solder, 2.8mm, 4.8mm or 6.3mm tabs or PC spills
- Front of panel seal up to IP68 in both 5 x 20mm and 6.3 x 32mm size fuses
- Captive drawer, screw cap and bayonet cap Fuse carrier styles
- Screwdriver release and screw cap - with finger release options
Battery Holders

Quick Points

- Screw and flange panel fixing
- PCB and base mounting versions
- Standard fixing and front panel sealed panel mounting versions, IP67 rated
- Open frame styles available

Manufactured from quality mouldings and metal components to ensure a secure and reliable connection, Bulgin’s battery holder range caters for battery sizes; AAA(R03), AA(R6), C(R14), D(R20), PP3(6R61) and CR123, accommodating 1, 2, 3 or 4 cells.

The Battery Holder Range
Bulgin's broad line of push button switches are available in various sizes and configurations. This includes a variety of illumination and terminal options as well as several with high inductive power ratings suitable for motor driven applications. These switches can be found in many markets including home appliances, commercial, medical, audio and security.
# Touch Switches

<table>
<thead>
<tr>
<th>Quick Points</th>
<th>Touch Switches</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piezo switches have no moving mechanical parts which offers excellent endurance and durability</td>
<td>MC22</td>
<td>- Piezo switches have no moving mechanical parts which offers excellent endurance and durability - Stainless Steel and Aluminium body types - Ratings up to 1A, 24V ac/dc - Illuminated and Non-Illuminated variants available - Latching and momentary actions - Sealed to IP68 and IP69K ratings</td>
</tr>
<tr>
<td>Capacitive switches have no moving mechanical parts which offers excellent endurance and durability</td>
<td>MC25</td>
<td>- Capacitive switches have no moving mechanical parts which offers excellent endurance and durability - Stainless Steel or Anodised Aluminium - Ratings up to 10mA, 12V ac/dc - Illuminated and Non-Illuminated variants available - Latching and momentary actions - Sealed to IP68 and IP69K ratings</td>
</tr>
<tr>
<td>Stainless Steel and Aluminium body types</td>
<td>MC16</td>
<td>- Stainless Steel and Aluminium body types - Ratings up to 1A, 24V ac/dc - Illuminated and Non-Illuminated variants available - Latching and momentary actions - Sealed to IP68 and IP69K ratings</td>
</tr>
<tr>
<td>Ratings up to 1A, 24V ac/dc</td>
<td>MPZI019</td>
<td>- Ratings up to 1A, 24V ac/dc - Illuminated and Non-Illuminated variants available - Latching and momentary actions - Sealed to IP68 and IP69K ratings</td>
</tr>
<tr>
<td>Illuminated and Non-Illuminated variants available</td>
<td>MPZI022</td>
<td>- Illuminated and Non-Illuminated variants available - Latching and momentary actions - Sealed to IP68 and IP69K ratings</td>
</tr>
<tr>
<td>Latching and momentary actions</td>
<td>MPZI022L</td>
<td>- Latching and momentary actions - Sealed to IP68 and IP69K ratings</td>
</tr>
<tr>
<td>Sealed to IP68 and IP69K ratings</td>
<td>MPZ016</td>
<td>- Sealed to IP68 and IP69K ratings</td>
</tr>
<tr>
<td>Sealed to IP68 and IP69K ratings</td>
<td>MPZ019</td>
<td>- Sealed to IP68 and IP69K ratings</td>
</tr>
<tr>
<td>Sealed to IP68 and IP69K ratings</td>
<td>MPZ022</td>
<td>- Sealed to IP68 and IP69K ratings</td>
</tr>
</tbody>
</table>

Bulgin’s touch switches are available with either piezo or capacitive technology. Both types of switches are usually comprised of flat, metallic discs, sometimes surrounded by an illuminated ring that lights up when the switch is activated.

# The Piezo Switch Range

<table>
<thead>
<tr>
<th>Quick Points</th>
<th>The Piezo Switch Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless Steel or Anodised Aluminium</td>
<td>MPZ016</td>
<td>- Stainless Steel or Anodised Aluminium - Ratings up to 10mA, 12V ac/dc - Illuminated and Non-Illuminated variants available - Latching and momentary actions - Sealed to IP68 and IP69K ratings</td>
</tr>
<tr>
<td>Ratings up to 10mA, 12V ac/dc</td>
<td>MPZ019</td>
<td>- Ratings up to 10mA, 12V ac/dc - Illuminated and Non-Illuminated variants available - Latching and momentary actions - Sealed to IP68 and IP69K ratings</td>
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<tr>
<td>Illuminated and Non-Illuminated variants available</td>
<td>MPZ022</td>
<td>- Illuminated and Non-Illuminated variants available - Latching and momentary actions - Sealed to IP68 and IP69K ratings</td>
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<tr>
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</tr>
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<td>MPZI022L</td>
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</tr>
</tbody>
</table>

# The Capacitive Switch Range

<table>
<thead>
<tr>
<th>Quick Points</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless Steel and Aluminium</td>
<td>MC16</td>
<td>- Stainless Steel and Aluminium - Ratings up to 1A, 24V ac/dc - Illuminated and Non-Illuminated variants available - Latching and momentary actions - Sealed to IP68 and IP69K ratings</td>
</tr>
<tr>
<td>Ratings up to 1A, 24V ac/dc</td>
<td>MC19</td>
<td>- Ratings up to 1A, 24V ac/dc - Illuminated and Non-Illuminated variants available - Latching and momentary actions - Sealed to IP68 and IP69K ratings</td>
</tr>
<tr>
<td>Illuminated and Non-Illuminated variants available</td>
<td>MC22</td>
<td>- Illuminated and Non-Illuminated variants available - Latching and momentary actions - Sealed to IP68 and IP69K ratings</td>
</tr>
<tr>
<td>Latching and momentary actions</td>
<td>MC25</td>
<td>- Latching and momentary actions - Sealed to IP68 and IP69K ratings</td>
</tr>
<tr>
<td>Sealed to IP68 and IP69K ratings</td>
<td>MC16</td>
<td>- Sealed to IP68 and IP69K ratings</td>
</tr>
<tr>
<td>Sealed to IP68 and IP69K ratings</td>
<td>MC19</td>
<td>- Sealed to IP68 and IP69K ratings</td>
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<td>Sealed to IP68 and IP69K ratings</td>
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# Slide & Voltage Selectors

<table>
<thead>
<tr>
<th>Quick Points</th>
<th>Slide &amp; Voltage Selectors</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ratings up to 16A, 250V ac</td>
<td>2000</td>
<td>- Ratings up to 16A, 250V ac - PCB and solder terminals - Voltage Selector Models - Snap in and flange mounting - 2, 3, 4 &amp; 5 position - Choice of circuits - Choice of actuators</td>
</tr>
<tr>
<td>PCB and solder terminals</td>
<td>VS0001</td>
<td>- PCB and solder terminals - Voltage Selector Models - Snap in and flange mounting - 2, 3, 4 &amp; 5 position - Choice of circuits - Choice of actuators</td>
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<tr>
<td>Voltage Selector Models</td>
<td>VS0002</td>
<td>- Voltage Selector Models - Snap in and flange mounting - 2, 3, 4 &amp; 5 position - Choice of circuits - Choice of actuators</td>
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</tr>
<tr>
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<td>2000</td>
<td>- Choice of actuators</td>
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</table>

With up to 5 switching positions as well as multiple terminal, circuit and slider options, Bulgin’s board mounted power slide switches can be configured to suit your needs. We also offer a wide range of voltage selector types that can be either snapped into a panel or flange mounted.

# The Slide & Voltage Selector Switch Range

<table>
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</tr>
<tr>
<td>Choice of actuators</td>
<td>2000</td>
<td>- Choice of actuators</td>
</tr>
</tbody>
</table>
Rocker Switches

- Available types: Ultra-thin, Miniature, Twin unit, Miniature round and Standard
- Rating from 10A, 250V ac up to 20A, 277V ac
- Single & double pole variants available
- Push-on, solder & PCB terminals
- Illuminated and non-illuminated options
- High in-rush (ON-OFF types)
- Matching Indicators
- Splash resistant options
- Choice of bezel styles and sizes, panel cut-outs and actuators
- Choice of switching circuits including 3 position

With numerous configurations and available options, Bulgin's extensive line of rocker switches are the primary choice for many globally recognized OEM’s.

The Rocker Switch Range

<table>
<thead>
<tr>
<th>8800</th>
<th>8500</th>
<th>8600</th>
<th>8620 &amp; 8670</th>
<th>1250</th>
<th>6050</th>
<th>1500</th>
<th>5500</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>1500 Twin</td>
<td>1550</td>
<td>6000</td>
<td>R13</td>
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</tbody>
</table>

Toggle Switches

- Nylon and Metal switch variants
- Multiple Lever Options
- Ratings up to 20A, 250V ac - 277V ac
- IP67 panel seal versions, supplied complete with gaskets (3900 Series – All Variants)
- Single and double pole
- Choice of circuit options including 3 position and momentary
- Mounting hole: 12.7mm diameter
- Sealing accessories available
- Quick Connect, Solder, Screw and PCB Termination Options

Well known for their quality and reliability, Bulgin's toggle switches are cost effective solutions to many existing applications. Independently tested for shock and vibration along with operation to -40°C, these switches offer features at an attractive price point often well below that of the existing competition.

The Toggle Switch Range

<table>
<thead>
<tr>
<th>3900</th>
<th>1700</th>
</tr>
</thead>
</table>
### Refrigerator Switches

<table>
<thead>
<tr>
<th>Quick Points</th>
</tr>
</thead>
</table>
| - Door switches  
- Switch rating from 0.2A, 250V ac up to 5A, 250Vac  
- Splash resistant variants  
- Choice of actuators  
- Momentary on and momentary off switching |

Long recognised as a leader in refrigerator door switches, Bulgin’s wide range of types and configurations will suit almost any need. With both double pole and single pole options, our switches are not only ideal for traditional refrigerator and freezer applications but can and have been used in a variety of door applications as well.

### The Refrigerator Switch Range

<table>
<thead>
<tr>
<th>0305</th>
<th>3005</th>
<th>3100</th>
<th>3140</th>
<th>0055</th>
</tr>
</thead>
</table>

### Antimicrobial Switches

<table>
<thead>
<tr>
<th>Quick Points</th>
</tr>
</thead>
</table>
| - BioCote antimicrobial material  
- Single and double pole options  
- Ratings from 15A, 250V ac to 20A, 277V ac  
- Choice of bezel styles and sizes  
- Choice of panel cut-out sizes:  
  - 19.3 x 12.9mm (8500 & 8300 Series)  
  - 30.1 x 22.2mm (6050 Series)  
  - 6 Different mounting sizes/styles (1550 Series)  
- Illuminated and non-illuminated options available |

Among the most innovative additions to our product offering are BioCote antimicrobial switches. BioCote is a silver ion product that is added to the molding process so it is integral to the plastic and will not wear off. Switches made with the BioCote additive are infused with antimicrobial properties that prevent the spread of dangerous microbes from multiple users activating the switch.

### The Antimicrobial Switch Range

| 8500 | 6050 | 1550 | 8300 |
**Indicators**

**Quick Points**
- Various LED, Neon and Filament illuminated options available
- Wide viewing angle option
- Termination options include Wire Leads, 2.8 Tabs, 4.8 or 6.3 QC termination
- Multiple termination types
- Rugged stainless steel variants that complement our anti-vandal switches

This range of panel mounting indicators consists of many different LED and Neon types, bezel styles and colours. The range has developed to meet the many different needs of panel design including IP66 environmentally sealed versions for use where a front panel seal is needed.

**The Indicator Range**

![Image of various indicator models]
Among the smallest and most versatile products within our indicator range are LED Lamps and Lampholders. Quite small in size, the LED housings we offer incorporate an LED and allow it to be mounted in a panel. We also offer re-lampable LED lampholders which can be supplied with or without LED's. These products are ideal where a reliable, long life indication in a small package is needed.
Bulgin has a long history of offering sealed, robust products and our indicators are no exception. Available in six popular sizes and styles, the indicators are all sealed to IP67 and can be fitted with Neon, LED or filament lamps. Several of our larger Low Voltage (IP67) and small LED lampholders (IP66 and IP67) are also available with IP sealing. Both types can be fitted with or without lamps. All of these products are great for any environment where moisture is a concern.
Bulgin has you covered.

Our components are available through a large network of National and International Distributors Worldwide.

Search for stock at: www.bulgin.com
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