

Industry Application Report

August 2021

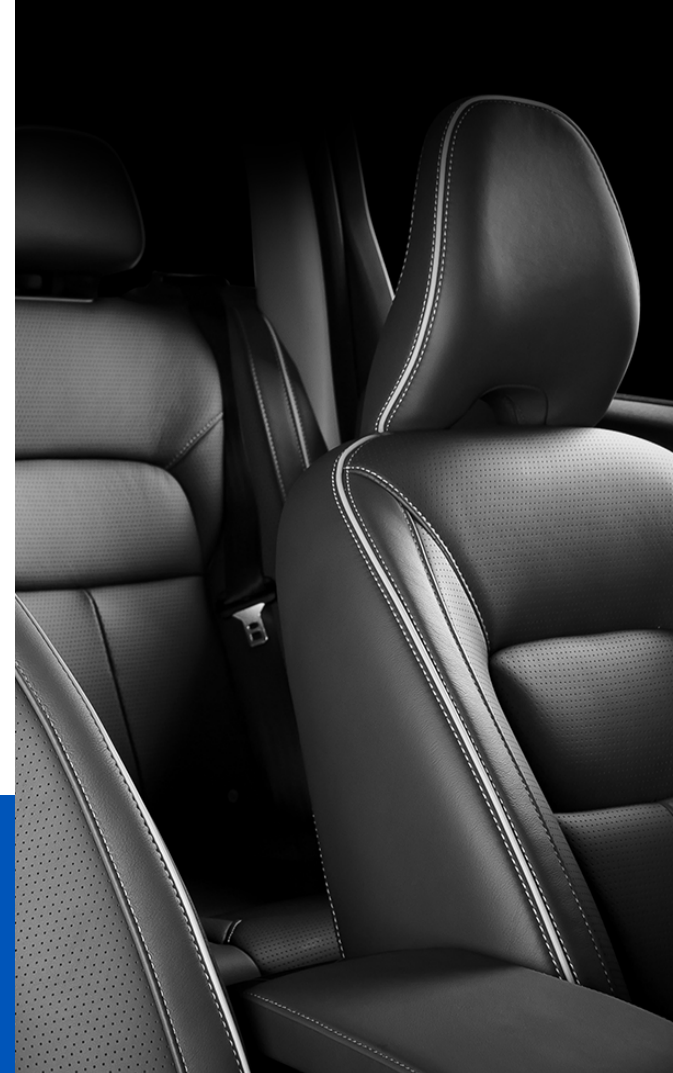


Heated Car Seats.

Heated car seats represent luxury and comfort in some vehicles. They help the passengers or driver warm up, making the journey more pleasurable, especially when the temperature drops outside. However, the components and connectors used in these devices must be high quality to prevent possible risks such as overheating or malfunctions.

Bulgin offers a wide range of reliable solutions to fabricate heated car seats, such as switches, sensors and dust-proof and corrosion-proof connectors. The Bulgin Arcoelectric range offers a wide selection of printed symbols on the 1500 Series Rocker switch range, with heated car seats being one of the many applications using these options.

- ⬡ Potential Markets: Transport / Domestic
- ⬡ Single or Twin units: Any combination of two individual 1500, 1510, 1520 Series Switches and 0430 Series Indicators can be assembled into a single unit



Products Related To This Industry:



1500 Series

Rocker Switches

Splash resistant rocker versions available. ENEC, UL, CSA approved (some approvals do not apply to some Termination types). Single or Twin units: Any combination of two individual 1500, 1510, 1520 Series Switches and 0430 Series Indicators can be assembled into a single unit Termination: 6.3 x 0.8 QC, 4.8 x 0.8 QC, 2.8 x 0.8 Tab (not available for 1300 Series switches).



8800 Series

Rocker Switches

Range of ultra thin Rocker Switches. ENEC, UL, CSA approved (approvals and ratings can vary with function - see technical data for details). Single Pole. Curved rocker. Choice of: Termination: 4.8 x 0.8 QC, Solder Tag, PCB mount. Body colour: Black, Red, White. Plus other options available.



Minature Range

Rocker Switches

Extensive range of miniature Rocker Switches and matching Indicators. ENEC, UL, CSA approved (approvals and ratings can vary with function. Industry standard panel cut-out. Single Pole (8500, 8503 Series), Double Pole (8550, 8553 Series) and matching Indicator Only (8580 Series) versions all in same body size



1250SP / 1250 Series

Rocker Switches

Rocker Switches. ENEC, UL, CSA approved (approvals and ratings can vary with function - see technical data for details). Single Pole (1250SP Series) and Double Pole (1250 Series) in same body size. High inrush tolerance.



Vacuum Pump.

A vacuum pump is a powerful device that works by removing the molecules of air and gases from a chamber, creating a partial vacuum. Some of the main applications are in research and development, freeze drying, and analytical instruments. These devices, also called suction pumps, are for industrial use in demanding conditions.

Bulgin offers the best components for harsh environments helping in the correct function of vacuum pumps. As an integral tool for air conditioning servicing, the 1350 Series high inrush rocker activates such a Vacuum Pump.



Potential Markets: HEVAC / Commercial



Bulgin's range of high quality rocker switches includes a huge choice of single and double contact options available in various sizes, colours, terminations, actuator types and ratings up to 16A, 250Vac, allowing for virtually any design configuration



Products Related To This Industry:



1350 Series

Rocker Switches

Splash resistant rocker versions available. ENEC, UL, CSA approved (except 1562 Series). (Some approvals do not apply to some Termination types.) Approvals and ratings can vary with function - see technical data for details. All Rocker types available unprinted, or printed in Black or White with a choice of Legend.



1300 Series

Rocker Switches

Range of Single Pole Rocker Switches. Standard (1500 Series), high inrush tolerant (1300 Series) and Indicator Only version (0430 Series). Splash resistant rocker versions available. ENEC, UL, CSA approved (some approvals do not apply to some Termination types). Approvals and ratings can vary with function.



8800 Series

Rocker Switches

Range of ultra thin Rocker Switches. ENEC, UL, CSA approved (approvals and ratings can vary with function - see technical data for details). Single Pole. Curved rocker. Choice of: Termination: 4.8 x 0.8 QC, Solder Tag, PCB mount. Body colour: Black, Red, White. Plus other options available.



1250SP / 1250 Series

Rocker Switches

Rocker Switches. ENEC, UL, CSA approved (approvals and ratings can vary with function - see technical data for details). Single Pole (1250SP Series) and Double Pole (1250 Series) in same body size. High inrush tolerance.



Roulette Machine.

Roulette Machines are devices used in the hospitality and gambling industries such as pubs and Casinos. Although primarily physical, this equipment has been modified to communicate the results electronically, making the game more attractive for users. Thus, switches, sensors and IEC Connectors and Power distribution units are used to operate these mechanisms.

The reliability and efficiency of these components are critical to maintaining the constant work of the device. Despite being out of sight, Bulgin IEC connectors are everywhere! They can even be found on Roulette machines in casinos.

- ⬡ Potential Markets: Hotels / Pubs
- ⬡ A full range of quality mains rated inlets, outlets and connectors conforming to IEC and EN 60320 specifications carrying UL, CSA, VDE and other approvals.



Products Related To This Industry:



PF0030 Series

IEC Connectors

Flange Mount Twin Fused IEC Inlets. EN60 320-1 Standard Sheet C14 Class I. Cold Condition. Twin Fused, 5mm x 20mm fuses. Choice of Termination depending on part code. /28 - 2.8mm Solder Tag, /48 - 4.8mm Tab, /PC - PCB Spills. Insulation Boot for rear of connector available separately. Retaining Clip KT0009 available separately. Mate with PX0587, PX0587/SE, PX0588



PX0590 Series

IEC Connectors

Flange Mount IEC Inlets. EN60 320-1 Standard Sheet C15 and C16 Class I. Hot Condition. Choice of Termination depending on part code: /28 - 2.8mm Solder Tag, /63 - 6.3mm Tab. Choice of colour depending on part code. Insulation Boot for rear of connector available separately. Retaining Clip KT0006 available separately. Mate with PX0597.



PX0675 Series

IEC Connectors

Flange Mount IEC Outlets. EN60 320-2-2 Standard Sheet F Class I. Choice of Termination depending on part code: /28 - 2.8mm Solder Tag, /48 - 4.8mm Tab, /63 - 6.3mm Tab, /PC - PCB Spills. Choice of colour depending on part code. PCB Mount version (part codes containing /PC) available with rear cover. Retaining Clip KT0006 available separately.



PX0597 Series

IEC Connectors

Straight Female IEC Connectors. EN60 320-1 Standard Sheet C15 and C16 Class I. Hot Condition. Cable Mount Screw Terminals (rewireable). Choice of colour, depending on part code suffix: /WH - White, /GY - Grey, no suffix - Black (some approvals apply to specific colours only - see data for details). Mate with PX0590, PX0595.



Water Cooler.

A water cooler is a device used in houses, offices and some public areas to dispense cold water. These dispensers use a refrigeration unit to keep the temperature of the water cool or consistent. Water Cooler machines can be Bottle-fed or Mains-fed, depending on the model - with the typical components used being Switches and IEC Connectors.

Recent models incorporate sensors to offer a touch-free alternative, reducing the possibility of spreading germs and bacteria. A self-cleaning water cooler designed in the popular 3100 Series door switch further demonstrates its versatility outside conventional refrigerators and freezers.

- ⬡ Potential Markets: Commercial / Retail
- ⬡ With both double contact and single contact 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.



Products Related To This Industry:



Door Switches

3100 Series

Splash resistant. ENEC, UL, CSA approved (approvals and ratings can vary with function - see technical data for details). 4.8 x 0.5 QC Termination presented at 90 degrees to switch body (3101, 3102 have two terminals, 3111 has three terminals). Sealed terminal option available - contact Sales for details. Choice of: Four Actuator sizes. Colour: Black, White (White 1), Polar White (White 14) (all gloss finish)



Door Switches

3005-3006 Series

Splash resistant. Choice of: Termination: 6.3 x 0.8 QC, 4.8 x 0.8 QC. Terminal mounting: In line with switch body or at 90 degrees on either left side or right side of switch body. Actuator: Large (26mm), Small (13mm). Colour: Black, White (both gloss finish). These switches require minimum Actuator stroke to ensure switch action - see technical data for details.



Capacitive Switches

MC16 / 19 / 22 / 25 Series

A range of durable Capacitive Switches. No moving mechanical parts making them extremely durable. Millions of operating cycles. Water and dustproof to IP68, IP69K. Stainless Steel or anodised aluminium. 300mm Flying Leads. Choice of 16mm, 19mm, 22mm & 25mm diameter depending on part code.



Piezo Switches

MPZ Series

No moving mechanical parts making them extremely durable. Millions of operating cycles. Water and dustproof to IP68, IP69K. Stainless Steel bodies (aluminum body upon request). Vandal resistant. 200mm Flying Leads. Choice of diameter sizes depending on part code: 16mm, 19mm, 22mm.



Blood Bank Monitor.

Blood bank monitors are medical equipment used in the collection of blood donations. These devices are found in clinics, hospitals and also in the pharmaceutical industry. The primary use is to avoid coagulation and the transference of the blood into plasma bags without damaging the blood cells. For excellent performance, the electronic components used in the monitors should work under demanding conditions and be liquid-proof and corrosion-proof.

Bulgin components are expertly designed to cover these needs. Our Push Buttons are built into blood collection equipment capable of monitoring and mixing blood for medical applications.

- ⬡ Potential Markets: Medical / Military
- ⬡ Choice of Switch Operations, Diameters & IP Ratings depending on Part Code
- ⬡ Illuminated versions available in Dot & Ring LED indication plus a variety of illumination colours



Products Related To This Industry:



MP0037

Vandal Resistant Switch

Stainless Steel Low Profile Vandal Resistant Push Button Switches. Choice of switch operations, diameters & IP ratings depending on part code. Solder Tag Termination except for MP0037 (Screw Terminal). Where an IP rating is shown, switch is front panel sealed to IP rating given, microswitch is not sealed.



MPI001 Series

Vandal Resistant Switch

22mm diameter bezel. 19.2mm Panel Cutout
Single pole. Push to make tactile (momentary action).
Choice of Termination depending on part code:
/28 - 2.8mm Tab. /TE or /TERM - Screw Terminal.
/RP - Solder Tag. /FL - 300mm Flying Leads; white - switch, red - LED +, black - LED.



MPB Series

Vandal Resistant Switch

Brass Chrome Plated Low Profile Vandal Resistant Push Button Switches. Choice of switch operations, diameters & IP ratings depending on part code. Solder Tag except for MPB037 (Screw Terminal). Where an IP rating is shown, switch is front panel sealed to IP rating given, microswitch is not sealed.



MP0050 Series

Vandal Resistant Switch

Stainless Steel Large Diameter Vandal Resistant Push Button Switches. Front panel sealed to IP66 (microswitch is not sealed). 32mm diameter. Solder Tag. Choice of Low Profile (MP0050) or Protruding Profile (MP0050/2).





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