

CPI manufactures high-endurance waterproof and thermal switches plus indestructible hydraulic position sensors for one purpose – to bring precision, efficiency, reliability and safety to your equipment, in the most demanding applications.



## Waterproof switches

CPI Waterproof Switches perform flawlessly under severe environmental conditions where traditional splashproof, weatherproof, or wash-down resistant switches do not survive. Get reliable operation under exposure to water, oil, humidity, sand, dirt, vibration, shock, and temperatures from -65°F to 300°F. Designed originally for rugged military applications, CPI's Waterproof switches are durable and versatile and provide the user with a switch design that does not need additional wiring.



## A, B and K series switches

- Hand actuated snap-action, momentary and maintained contact
- 120VAC/28VDC, 5A resistive/3A inductive, SPDT, NO, NC contacts
- Operating temperature -65°F to 165°F (Neoprene)
- -40°F to 221°F (santoprene).
- IP68 rated



## E, C, D and H series brackets

- Brackets for mounting, limit, toggle and plunger functions (used with A, B and K series switches)
- Stainless steel brackets, Surface and angle mounting, Threaded bushing and ring nuts for through panel mounting, Roller and flat spring actuators, customized designs available



## J3 series Thinline limit switch

- Low profile limit switch with mounting and actuator 120VAC/12VDC
- 1A resistive, NO & NC slow make and break contacts
- Thermoplastic body with single piece stainless steel spring and mounting tab
- Operating temperature -40°F to 150°F



## J4 series ball actuator limit switch

- 28VDC
- 1A rating NO & NC slow make and break contacts
- Threaded through-hole mounting designs
- Patented ball carrier design repels particles, Brass, stainless steel, and plated steel bodies
- Operating temperature range -40°F to 300°F



## Switch panels

- 120VAC/28VDC
- 5A resistive, 3A inductive.
- Operating temperature range -50°F to 211°F, depending on configuration
- Excellent resistance to both high and low temperature, acids, alkalies, salt spray, sand, dust and fungus



## Thermal switches

CPI's Thermal Switches provide dependable protection for your products and are available in snap disc, bimetal, and rod & tube designs with set-points from 0°F to 1850°F. A vast array of mounting, probe, and temperature options enables designers to quickly resolve temperature control problems for any application. Switches meet key sections of RTCA DO-160C and MIL-STD 810. All switches are factory set and sealed, and are 100% tested.



### Snap-Stat

- AD series
- Contact movement is achieved using a bimetallic snap disc.
- Snap action provides shock and vibration immunity, and broader differential.
- Set point range: 0-350°F.



### Plugstat

- M, L, R & S series
- Contact movement is achieved via the different expansion rates of two metals fused together. This is a slow-make-and-break device, which provides very close tolerance temperature sensing, with small differential.
- Set point range: 0-650°F.



### Rod & Tube

- X, W & AB series
- Again, contact movement is achieved via differences in coefficients of expansion of two materials, in this case the outer tube and the internal rod. This product offers very rapid response time.
- Set point range: 0-1850°F.



## Linear position sensors

CPI's Positions Sensors provide reliable and accurate position sensing in virtually any accumulator or hydraulic cylinder (ranging from 0 to 20 M) – including telescopic models, with no core drilling of the rod and no cylinder bore size. In concept CPI simply enclosed an internal mount sensor in a pressure vessel, and passed the cable through a high-pressure conduit made from standard hydraulic hose, which length can be specified. The cable connector attaches via a blind hole in the piston, but is only attached to the cylinder or accumulator by a hydraulic hose.



### External Mount

- Plug & Play
- High shock and vibration immunity
- Non-contacting core sensing technology
- Rugged steel enclosure
- One sensor works for any stroke length within sensing range
- Various output options



### Internal Mount

- No core drilling of rod required
- Non Contacting Linear Variable Differential Transformer
- Resides completely within the cylinder
- For use in standard and telescopic cylinders
- Customizable
- Various output options



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