Control Products Inc.

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/28DC, 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 to211°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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