General Purpose Basic Switches

**Z Basic Switch**
- High Precision and wide variety of styles meet wide range of applications.
- High reliability reduces maintenance costs.
- Standard mounting holes allow installation or replacement for wide range of applications.

- **Applications**
  - Heavy duty vehicle, pressure gauge, power transformer, elevator
- **Switching Current (Resistive)**
  - 15A @ 250VAC
  - 6A @ 30VDC
  - 0.5A @ 125VDC
- **Contact Form**
  - SPDT
- **Mechanical Service Life**
  - 20,000,000 cycles (for pin plunger type)
- **Electrical Service Life**
  - 500,000 cycles @ rated load
- **Actuator Types (Typical types)**
  - Pin plunger, short plunger, hinge lever, panel mount plunger, roller lever, flexible rod.
- **Popular Part Number**
  - Z-15GW22-B
  - Z-15GQ-B

**A Basic Switch**
- Compact size capable of handling 20A loads, no need for contactor or breaker.
- Resist 75 Amps of inrush current no need contact protective circuit.
- High-capacity load can be switched directly without additional components for lower cost installation.

- **Applications**
  - Heater, motor, dryer, home appliance, mower, forklift, pressure switch.
- **Switching Current (Resistive)**
  - 20A @ 250VAC
  - 6A @ 30VDC
  - 0.5A @ 125VDC
- **Contact Form**
  - SPDT
- **Mechanical Service Life**
  - 1,000,000 cycles
- **Electrical Service Life**
  - 100,000 cycles @ rated load
- **Actuator Types (Typical types)**
  - Pin plunger, short plunger hinge lever, panel mount plunger, roller lever, short hinge lever, panel mount cross roller.
- **Popular Part Number**
  - A-20GV-B
  - A-20GV2-B

**X Basic Switch**
- Can be used for either load rating of DC or AC for wide variety of applications.
- Most manufactures only produce DC version.
- Standard mounting holes allow for wide range of applications.

- **Applications**
  - Power transformer, pressure gauge, forklift, pressure switch.
- **Switching Current (Resistive)**
  - 10A @ 125VDC/AC
  - 3A @ 250VDC/AC
- **Mechanical Service Life**
  - 1,000,000 cycles
- **Electrical Service Life**
  - 100,000 cycles @ rated load
- **Actuator Types (Typical types)**
  - Pin plunger, hinge lever, slim plunger, short plunger, panel mount plunger, leaf spring lever, short hinge roller lever.
- **Popular Part Number**
  - X-10G-B
  - X-10GW22-B

**TZ Basic Switch**
- Stable operation at an ambient temperature of 400˚C for extreme applications.
- Platinum contacts insure high reliability for long life.

- **Applications**
  - Boiler, power plant, heater, level switch, temperature switch.
- **Switching Current (Resistive)**
  - 1A @ 250VAC
  - 1A @ 30VDC
- **Mechanical Service Life**
  - 100,000 cycles
- **Electrical Service Life**
  - 50,000 cycles @ rated load
- **Actuator Types (Typical types)**
  - Pin plunger, hinge lever, roller lever, short hinge roller lever.
- **Popular Part Number**
  - TZ-1G
  - TZ-1GV

**DZ Basic Switch**
- Compact DPDT contacts for size restricted applications.
- Can switch two independent circuits operating on different voltages for wide variety of applications.
- Cost effective for 2 circuit applications.

- **Applications**
  - Power transformer, heavy duty vehicle, foot switch.
- **Switching Current (Resistive)**
  - 10A @ 250VAC
  - 0.5A @ 125VDC
- **Contact Form**
  - DPDT
- **Mechanical Service Life**
  - 1,000,000 cycles
- **Electrical Service Life**
  - 500,000 cycles @ rated load
- **Actuator Types (Typical types)**
  - Pin plunger, hinge lever, roller lever, short hinge roller lever.
- **Popular Part Number**
  - DZ-10GW22-1B
  - DZ-10GV2-1B

Applications
- Heavy duty vehicle, pressure gauge, power transformer, elevator

Switching Current (Resistive)
- 15A @ 250VAC
- 6A @ 30VDC
- 0.5A @ 125VDC

Contact Form
- SPDT

Mechanical Service Life
- 20,000,000 cycles (for pin plunger type)

Electrical Service Life
- 500,000 cycles @ rated load

Actuator Types (Typical types)
- Pin plunger, slim plunger, short plunger, hinge lever, panel mount plunger, roller lever, flexible rod.

Popular Part Number
- Z-15GW22-B
- Z-15GQ-B

Applications
- Heater, motor, dryer, home appliance, mower, forklift, pressure switch.

Switching Current (Resistive)
- 20A @ 250VAC
- 6A @ 30VDC
- 0.5A @ 125VDC

Contact Form
- SPDT

Mechanical Service Life
- 1,000,000 cycles

Electrical Service Life
- 500,000 cycles @ rated load

Actuator Types (Typical types)
- Pin plunger, short plunger hinge lever, panel mount plunger, roller lever, short hinge lever, panel mount cross roller.

Popular Part Number
- A-20GV-B
- A-20GV2-B

Applications
- Power transformer, pressure gauge, forklift, pressure switch.

Switching Current (Resistive)
- 10A @ 125VDC/AC
- 3A @ 250VDC/AC

Contact Form
- SPDT

Mechanical Service Life
- 1,000,000 cycles

Electrical Service Life
- 100,000 cycles @ rated load

Actuator Types (Typical types)
- Pin plunger, hinge lever, slim plunger, short plunger, panel mount plunger, leaf spring lever, short hinge roller lever.

Popular Part Number
- X-10G-B
- X-10GW22-B

Applications
- Boiler, power plant, heater, level switch, temperature switch.

Switching Current (Resistive)
- 1A @ 250VAC
- 1A @ 30VDC

Contact Form
- DPDT

Mechanical Service Life
- 1,000,000 cycles

Electrical Service Life
- 500,000 cycles @ rated load

Actuator Types (Typical types)
- Pin plunger, hinge lever, roller lever, short hinge roller lever.

Popular Part Number
- TZ-1G
- TZ-1GV

Applications
- Power transformer, heavy duty vehicle, foot switch.

Switching Current (Resistive)
- 10A @ 250VAC
- 0.5A @ 125VDC

Contact Form
- DPDT

Mechanical Service Life
- 1,000,000 cycles

Electrical Service Life
- 500,000 cycles @ rated load

Actuator Types (Typical types)
- Pin plunger, hinge lever, roller lever, short hinge roller lever.

Popular Part Number
- DZ-10GW22-1B
- DZ-10GV2-1B
## General Purpose Limit Switches

### ZE Limit Switch
- **Applications**
  - Heavy duty vehicle, machine tool, forklift.
- **Switching Current (Resistive)**
  - 15A @ 250VAC
  - 6A @ 30VDC
  - 0.5A @ 125VDC
- **Contact Form**
  - SPDT
- **Mechanical Service Life**
  - 10,000,000 cycles
- **Electrical Service Life**
  - 500,000 cycles @ rated load
- **Actuator Types (Typical types)**
  - Plunger, roller plunger, roller arm lever.
- **Popular Part Number**
  - ZE-Q22-2
  - ZE-N-2

### D4C Limit Switch
- **Applications**
  - Parking equipment, assembly machine, machine tool.
- **Switching Current (Resistive)**
  - 5A @ 250VAC
  - 4A @ 30VDC
  - 0.4A @ 125VDC
- **Contact Form**
  - SPDT
- **Mechanical Service Life**
  - 10,000,000 cycles
- **Electrical Service Life**
  - 200,000 cycles @ rated load
- **Actuator Types (Typical types)**
  - Plunger, roller plunger, roller lever, seal plunger.
- **Popular Part Number**
  - D4C-1220
  - D4C-1601

### D4A Limit Switch
- **Applications**
  - Processing equipment, assembly machine, machine tool.
- **Switching Current (Resistive)**
  - 10A @ 250VAC
  - 6A @ 30VDC
  - 0.4A @ 125VDC
- **Contact Form**
  - SPDT, DPDT
- **Mechanical Service Life**
  - 50,000,000 cycles (SPDT), 30,000,000 cycles (DPDT)
- **Electrical Service Life**
  - 1,000,000 cycles @ rated load (SPDT), 750,000 cycles @ rated load (DPDT)
- **Actuator Types (Typical types)**
  - Plunger, side rotary lever
- **Popular Part Number**
  - D4A-3101N
  - D4A-3E01N

### WL-N Limit Switch
- **Applications**
  - Machine tool, welding machine, automotive assembly.
- **Switching Current (Resistive)**
  - 10A @ 500VAC
  - 6A @ 30VDC
  - 0.8A @ 125VDC
- **Contact Form**
  - Single Pole/Double Break
- **Mechanical Service Life**
  - 15,000,000 cycles
- **Electrical Service Life**
  - 750,000 cycles @ rated load - Standard type
- **Actuator Types (Typical types)**
  - Plunger, roller lever, variable rod lever.
- **Popular Part Number**
  - WLCA2-N
  - WLCL-LD-N

### SHL Limit Switch
- **Applications**
  - Machine tool, assembly machine, molding machine.
- **Switching Current (Resistive)**
  - 10A @ 250VAC
  - 5A @ 30VDC
  - 0.4A @ 125VDC
- **Contact Form**
  - SPDT
- **Mechanical Service Life**
  - 10,000,000 cycles
- **Electrical Service Life**
  - 500,000 cycles @ rated load
- **Actuator Types (Typical types)**
  - Plunger, panel mount plunger, hinge lever
- **Popular Part Number**
  - SHL-W295
  - SHL-D55

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