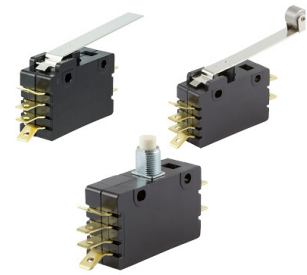


Snap Action Switch

Double Pole General Purpose

E19, E20, G20



Features

- Choice of 3 current ratings
- Long life coil spring, snap action mechanism
- Agency approved extended life versions available
- RoHS compliant
- High temperature versions available – contact factory

Typical Applications

- Household appliances
- Automated assembly lines
- Brake switch on utility vehicles
- Industrial and accessible door openers
- Vending machines

Part Number Breakdown

E19-00A0

Example: E19-00A0 is a 15 A, normally open DPDT pole switch with a standard ratio button actuator.

| Series Type | | Type ¹ | | Circuitry | | Actuator ¹ | |
|-------------|----------------------|-------------------|--------------------------------------|-----------|-----------------|-----------------------|---|
| E19 | Double pole 15 A | 0 | Standard ratio actuator or button | 0 | Double Throw | A | Button |
| E20 | Double pole 20 A | 5 | High ratio actuator | 1 | Normally Open | H | Lever |
| G20 | Double pole 0.1 A | | | 2 | Normally Closed | J | Button with ferrule |
| | | | | | | K | Roller |
| | | | | | | M | Button with extra over-travel and ferrule |

¹See Actuator Specifications section for available actuator/type combinations

Electrical Specifications per UL1054 – Min 6000 Operations

| Series | Operations | Current and Power Ratings |
|--------|--|--|
| E19 | 6000 operations; 100,000 available – contact factory | 15 A, 125 / 250 VAC ¾ HP, 125 VAC / 1 ½ HP, 250 VAC |
| E20 | 6000 operations | 20 A, 125 / 250 VAC 1 HP, 125 VAC / 2 HP, 250 VAC |
| G20 | 100,000 operations | 0.1 A, 125 VAC |

Commonly Stocked Distributor Parts








| | | | |
|----------|----------|----------|----------|
| E19-00A0 | E19-00M0 | E20-00H0 | E20-50K0 |
| E19-00H0 | E19-50H0 | E20-00K0 | |
| E19-00J0 | E19-50K0 | E20-00M0 | |
| E19-00K0 | E20-00A0 | E20-50H0 | |

Note: Part numbers with a leading 0 are functionally no different than without a leading 0 (ex.: 0E19-00A0 is the same switch as E19-00A0)










Actuator Specifications⁴

E19/G20 Series

| Actuator | | Max Operating Force g (lb) | Max Pre-Travel mm (in) | Operating Point ⁵ mm (in) | Min Over-Travel mm (in) | Max Movement Differential mm (in) | Actuation Length ⁶ mm (in) |
|----------|--|-------------------------------|---------------------------|---|----------------------------|--------------------------------------|--|
| A |  | 850 (1.87) | 1.27 (0.050) | 7.24 ± 0.76 (0.285 ± 0.030) | 2.03 (0.080) | 0.38 (0.015) | N/A |
| H |  | 205 (0.45) | 6.99 (0.275) | 7.92 ± 1.57 (0.312 ± 0.062) | 4.75 (0.187) | 2.36 (0.093) | 38.10 (1.500) |
| H | High ratio  | 130 (0.28) | 10.16 (0.400) | 7.14 ± 1.57 (0.281 ± 0.062) | 4.75 (0.187) | 3.56 (0.140) | 44.45 (1.750) |
| J |  | 850 (1.87) | 1.27 (0.050) | 17.02 ± 0.76 (0.670 ± 0.030) | 2.30 (0.080) | 0.38 (0.015) | N/A |
| K |  | 212 (0.47) | 6.35 (0.250) | 18.24 ± 1.57 (0.718 ± 0.062) | 4.75 (0.187) | 2.36 (0.093) | 35.33 (1.391) |
| K | High ratio  | 150 (0.33) | 7.92 (0.312) | 17.45 ± 1.57 (0.687 ± 0.062) | 4.75 (0.187) | 3.56 (0.140) | 41.78 (1.645) |
| M |  | 850 (1.87) | 1.27 (0.050) | 20.62 ± 0.76 (0.812 ± 0.030) | 5.54 (0.218) | 0.38 (0.015) | N/A |

E20 Series

| Actuator | | Max Operating Force g (lb) | Max Pre-Travel mm (in) | Operating Point ⁵ mm (in) | Min Over-Travel mm (in) | Max Movement Differential mm (in) | Actuation Length ⁶ mm (in) |
|----------|--|-------------------------------|---------------------------|---|----------------------------|--------------------------------------|--|
| A |  | 1280 (2.82) | 2.54 (0.100) | 6.30 ± 0.76 (0.248 ± 0.030) | 1.27 (0.050) | 0.38 (0.015) | N/A |
| H |  | 425 (0.94) | 8.38 (0.330) | 11.89 ± 1.57 (0.468 ± 0.062) | 3.96 (0.156) | 1.27 (0.050) | 20.85 (0.821) |
| H | High ratio  | 285 (0.63) | 15.24 (0.600) | 11.10 ± 1.57 (0.437 ± 0.062) | 3.96 (0.156) | 2.03 (0.080) | 27.20 (1.071) |
| J |  | 1280 (2.82) | 2.54 (0.100) | 6.30 ± 0.76 (0.248 ± 0.030) | 1.27 (0.050) | 0.38 (0.015) | N/A |
| K |  | 425 (0.94) | 8.84 (0.348) | 21.84 ± 1.57 (0.860 ± 0.062) | 3.96 (0.156) | 1.14 (0.045) | 17.48 (0.688) |
| K | High ratio  | 312 (0.69) | 13.34 (0.525) | 21.03 ± 1.57 (0.828 ± 0.062) | 3.71 (0.146) | 1.91 (0.075) | 22.91 (0.902) |
| M |  | 1280 (2.82) | 2.54 (0.100) | 19.66 ± 0.76 (0.774 ± 0.030) | 4.78 (0.188) | 0.38 (0.015) | N/A |

⁴Contact factory regarding combinations not shown

⁵Measured above reference line; refer to dimensional drawing below

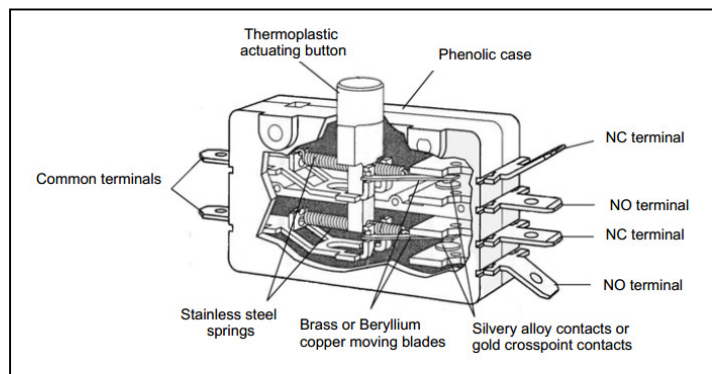
⁶Actuator tolerances ± 0.791 mm (0.031"); E14 H and K actuators are shorter and formed up 11° at the button

Material Specifications

| | |
|---------------------|--|
| Case | General Purpose Phenolic |
| Actuating Button | Thermoplastic |
| Common Terminal | Copper Alloy |
| NO and NC Terminal | Copper Alloy (E13, G13) Copper (E14) |
| Moving Blade | Copper Alloy (E13, G13) Copper (E14) |
| Spring | Stainless Steel |
| Auxiliary Actuators | Cold-Rolled Steel (Nickel-Plated) |
| Roller | Sintered Stainless Steel |
| Contacts | Gold Crosspoint (G13) Silver Alloy (E13, E14) |

Environmental Specifications

| | |
|---------------------|---|
| Temperature Rating | 105 °C (221 °F) standard 150 °C (302 °F) available |
| Flammability Rating | UL94HB |



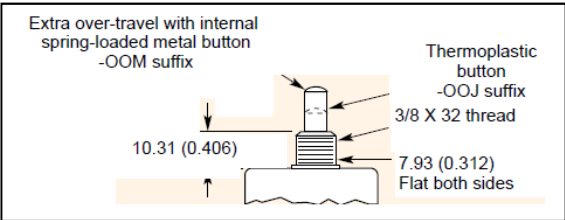
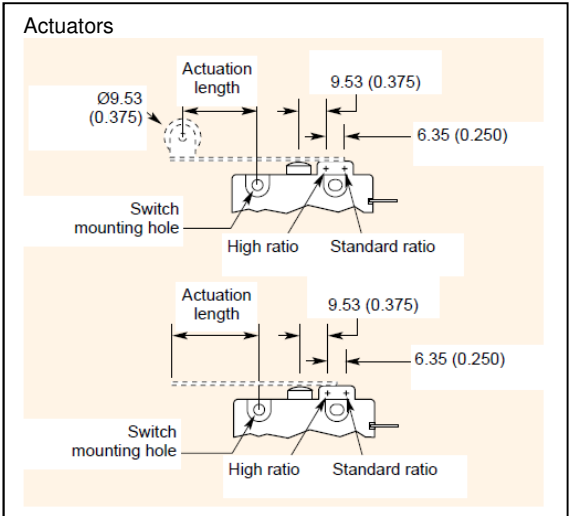
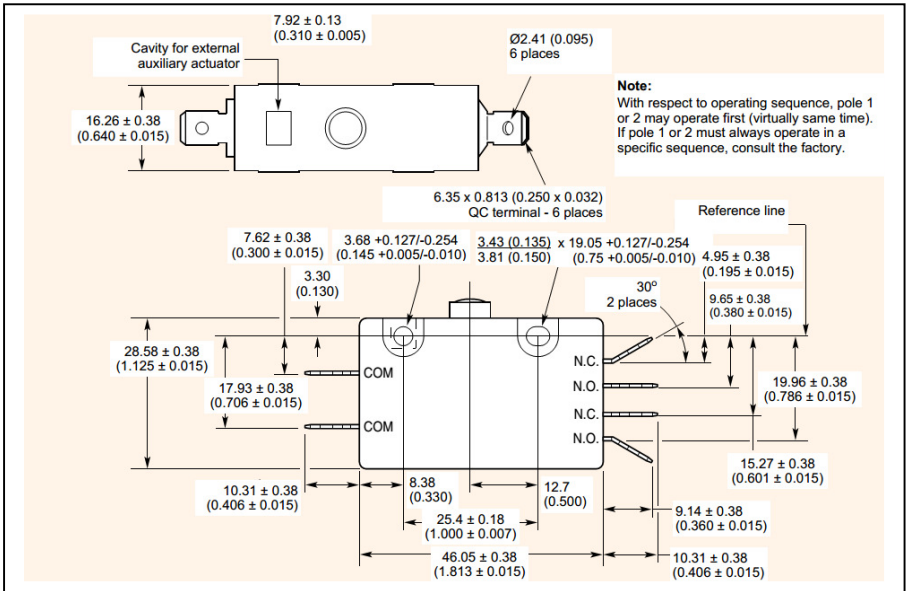
Dimensions – see page 3

<http://switches-sensors.zf.com> ZF Electronics Systems Pleasant Prairie, LLC (“ZF”) acquired the rights to the CHERRY branded switches and sensors in 2008. Although ZF divested its interest in the CHERRY name in 2015, the switches and sensors remain unchanged and are now sold under the ZF brand.

Page 2 of 3, Last update 2017-10-02, Specifications subject to change without notice.



Dimensions – mm (inches)



Optional hardware
 Brass hex nut : 00120023
 Plated hex nut: 00120028





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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