

Double Action Hand Switch

- Good operating feeling with snap action mechanism
- Easy to grip by hand
- Long stroke achieved by unique mechanism
- Having longtime experience in various applications like X-ray equipment

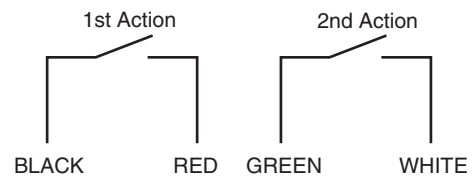
RoHS Compliant



Category

| |
|--------------|
| Product code |
| C2U |

Contact Form



Operating Characteristics (initial)

| Items | Abbr. | Unit | Specification |
|------------------|-------|------|---------------|
| Operating force1 | OF1 | N | 4.90±1.47 |
| Operating force2 | OF2 | N | 15.69±2.94 |
| Pretravel 1 | PT1 | mm | (3.5) * |
| Pretravel 2 | PT2 | mm | (11.5) * |
| Total travel | TT | mm | (15) * |

* reference value

Ratings

| Resistive load | |
|----------------|-----|
| 30 VDC | 2 A |
| 125 VAC | 2 A |

Characteristics

| | | |
|------------------------------------|---|---|
| Operating speed | | 1 mm to 1000 mm/sec |
| Operating frequency | Mechanical | 120 ops/min max. |
| | Electrical | 60 ops/min max. |
| Insulation resistance (at 500 VDC) | Between terminals of same polarity | 100 MΩ min. |
| | Between terminals of different polarity | |
| | Between non-live metal parts and ground | |
| Contact resistance (initial) *1 | | 2 Ω max. (at wire terminal) |
| Dielectric strength | Between terminals of same polarity | 1,000 VAC 50/60 Hz for 1 min. |
| | Between terminals of different polarity | |
| | Between non-live metal parts and ground | |
| Vibration resistance *2 | Malfunction | Frequency: 10 to 55 Hz 1.5mm Double amplitude |
| Shock resistance *2 | Malfunction | 300 m/s ² max. |
| Durability | Mechanical | 500,000 operations min. (at 60 ops/min.) |
| | Electrical | 200,000 operations min. (at 30 ops/min.) |
| Degree of protection | | IEC IP00 |
| Ambient operating temperature | | -10 to +40°C (at 60% RH max.) (with no icing or condensation) |
| Ambient operating humidity | | 75% RH max. (for +5 to +35°C) |
| Weight | | Approx. 158 g |

Note: The data given above are initial values.

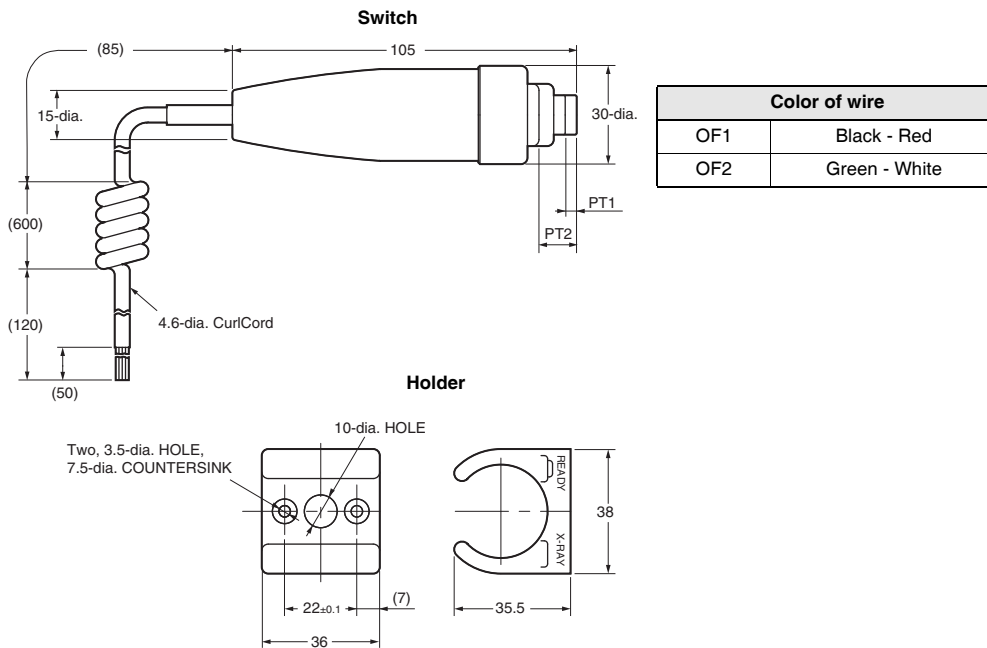
*1. Measured by voltage drop method at 1 A, 6 to 8 VDC

*2. Close or open circuit of contact is 1 ms max.

Dimensions

(Unit: mm)

C2U



- Note:**
1. The switch and the holder are supplied together.
 2. Unless otherwise specified, a tolerance of ± 0.8 mm applies to all dimensions.
 3. () dimensions are reference value.

Precautions

★ Refer to General Information.

Warning Indications

| | |
|------------------------------------|---|
| Precautions for Safe Use | Supplementary comments on what to do or avoid doing, to use the product safely. |
| Precautions for Correct Use | Supplementary comments on what to do or avoid doing, to prevent failure to operate, malfunction, or undesirable effects on product performance. |

Precautions for Safe Use

Use the Switch within the rated voltage and current ranges, otherwise the Switch may have a shortened life expectancy, radiate heat, or burn out. This particularly applies to the instantaneous voltages and currents when switching.

Precautions for Correct Use

- **Wiring**
 - The rough standard for soldering work is as follows.
 - Capacity of soldering iron: 60 W
 - Soldering time: 3 sec max.
- **Washing**
 - The Switches are not sealed, and cannot be washed. Doing so will cause the washing agent, together with flux or dust particles on the PCB, to enter the Switch, resulting in malfunction.
- **Application / Storage Environment**
 - Do not use the Switch in locations that are subject to toxic gas, silicon, excessive dust, excessive dirt, high temperatures, high humidity, sudden temperature changes, water splashes, or oil splashes.
 - Otherwise, damage resulting by contact failure of the Switch contacts, corrosion, or other causes, or other functional failure may occur.
 - The operating characteristics, contact resistance, insulation resistance and dielectric strength of the Switches should be inspected before the usage, if there is the following conditions;
 - If they are stored more than 1 year after the production.
 - If they are fallen down.
 - If condensation occurs.
 - If they had been left out of the storage environmental conditions.

- Application examples provided in this document are for reference only. In actual applications, confirm equipment functions and safety before using the product.
- Consult your OMRON representative before using the product under conditions which are not described in the manual or applying the product to nuclear control systems, railroad systems, aviation systems, vehicles, combustion systems, medical equipment, amusement machines, safety equipment, and other systems or equipment that may have a serious influence on lives and property if used improperly. Make sure that the ratings and performance characteristics of the product provide a margin of safety for the system or equipment, and be sure to provide the system or equipment with double safety mechanisms.

Note: Do not use this document to operate the Unit.



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

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- 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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