SPECIFICATIONS FOR

PRODUCT NAME : Automatically small horizontal vibration detection switch

TYPE NAME : D 7 A -2

ISSUED: S. Scarder April 21. 1999

CHECKED: Mori April 22, 1999

APROVED: M. Jonal Cyr. 22. 19

OMRON Corporation

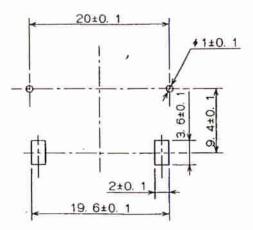
- 1. Mechanism parameter
- (1) Dimentions
 DRWG. No. 6421443-2
- (2) Structure

The contact of the built-in switch is mechanically opened and close by the vibration of the earthquake wave and it is the mechanism which takes out the signal.

- (3) Protection structure
 The switch is assumed to be IP40.
- (4) Set sensitivity 90-170 cm/s²(Gal) (Depend on the horizontal, continuous excitation method of 0.3, 0.5, and 0.7 cycle seconds).

The above-mentioned sensitivity is a value by which it is set to operate by the earth quake waves $(80-250 \text{ cm/s}^2)$.

- (5) Return mechanism
 Automatic return type
- (6) Installation level allowance value The installation level allowance value of the device which builds in this item while installed normal is assumed ± 5 degrees or less.
- (7) Point of contact form Excite horizontally and turn ON in the range of set sensitivity.
- (8) The horizontal return time Time from the fixation of the device which builds in this item in the installation level allowance value to the normal return of the switch circuit is made within 20 seconds. (However, 10°C or more)
- (9) Circuit return time Time until the switch circuit returns original after the vibration stops is made within one minute.
- (10) Installation method Please install this item on the PCB(t=1.6mm). (See right pictture.)
- (11) Soldering
 Dip soldering:temperature 270℃ 4sec MAX.
 Soldering iron:temperature 350±10℃ 3sec MAX.
- Electric specification
 Electric ratings
 DC3V, 5 μ A~DC3V, 1mA
- (2) Insulation resistance 100M Ω or more (DC250VMegger). Between each terminal and earth terminal, between the same pole terminals.



- (3) Dielectric strength AC250V, 50/60Hz I minute (between each terminal and earth between the same pole terminals).
- (4) Contact resistance Below initial 1Ω (terminal)
- 3. Mechanical specification
- Transportation vibration
 Satisfy an initial value after exciting in half amplitude 2.5mm, the vibration frequency
 10Hz, and the direction of three axes for 20 minutes or more.
- (2) Endurance impact Do not provide the obstacle as a function after impressing the acceleration of 980m/s² in the direction of three axes continuousness three times.
- (3) Transportation impact Satisfy an initial value after 1 corner, 3 arrises, 3 surfaces and 7 times in total are dropped from the height of 60cm to a concrete side freely while packed.
- (4) Terminal strength Satisfy an initial value after impressing the load of 9.8N in the direction of compression for one minute.
- 4. Environmental performance
- (1) Use surroundings temperatures -30-70℃ (However, there must be neither be dewy nor freezing)
- (2) Use surroundings humidity. 25~95%RH.
- (3) Preservation surroundings temperatures $-40-70^{\circ}$ C (However, there must be neither be dewy nor freezing)
- (4) Preservation surroundings humidity. 25~95%RH.
- 5. Business-proof Business
- (1) Salt-fog test

Do not generate rust on corrosion and externals remarkable depending on the salt-fog test which builds in and provides for the meter of the gas to JIS Z 2371 after testing for 100 hours.

insulation resistance:5MΩor more.

Dielectric strength: AC250V 1 minute(50/60Hz).

However, measures under the dry state after the examination ends.

(2) Wetprooting

Do not provide the obstacle as a function after leaving for continuousness 96 hour in atmosphere of $40\pm2\%$ and 90-98%RH.

Insulation resistance 10MΩ or more.

However, measures under the dry state after the examination ends.

(3) Heat-humidity cycle

Do not provide the obstacle as a function by 10 cycles at each heat-humidity of showing in Figure 2 of regulations of the check of the meter of the gas.

Insulation resistance $10M\Omega$ or more.

Moreover, do not expose the final cycle in the state of the low temperature.

However, measures under the dry state after the examination ends.

(4) High temperature leaving

Do not provide the obstacle as a function after leaving in the constant temperature tank of $70\pm2\%$ for 96 hours.

(5) Heatproof impact

Do not provide the obstacle as a function after leaving for 10 cycles. (onecycle:-30°C 30 minutes \rightarrow 70°C, 30 minutes).

(6) Electrical service life

Do not provide the obstacle as a function after 10,000 operations under the rated load of 3VDC 1mA at a frequency of 10 to 20 operations per minute. Insulation resistance :10M Ω or more.

(7) Corrosive gas

 $H_2S5\pm 1ppm$, 40°C and 65%RH and leaving for 96 hours. The contact resistance after examining is assumed to be $1k\Omega$ or less.

- Note 1. Among the judgment standards, the meaning of 'Satisfy an initial value' is as follows.
 - ① Operation characteristic operates by $90-170 \text{ cm/s}^2$ (0.3, 0.5, and 0.7 cycle seconds).
 - ② Contact resistance Below 1Ω.
 - ③ Insulation resistance 100MΩ or more.
 - (4) Dielectric strength AC250V 50/60Hz 1 minute.

Moreover, the meaning of 'Do not provide the obstacle as function' is as follows.

- ① Operation characteristic Operate by 80-250 cm/s² (0.3, 0.5, and 0.7 cycle seconds).
- ② Contact resistance Below 100Ω.
- ③ Insulation resistance 100MΩ or more.
- @ Dielectric strength AC250V 50/60Hz 1 minute.
- Note 2. Guaranteed term and range of guarantee
 - (1) Guaranteed term

It will be assumed one year after the commodity is delivered.

(2) Range of guarantee

Only when the breakdown is caused during the above-mentioned guaranteed term by the responsibility of our company, the breakdown part of this commodity is exchanged or is repaired.

The guarantee is a guarantee of the delivery goods units and pardon expenditure (work pay and damage amends, etc.) because of the exchange work, please.

Note 3. The terms of validty of this specifications

One year after the day of issue.

If we have not had any orders for one year, we will make this specifications invalid.

SYM	DATE	E/C CONTENTS	SIGN	SYM	DATE	E/C CONTENTS	SIGN
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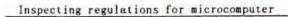
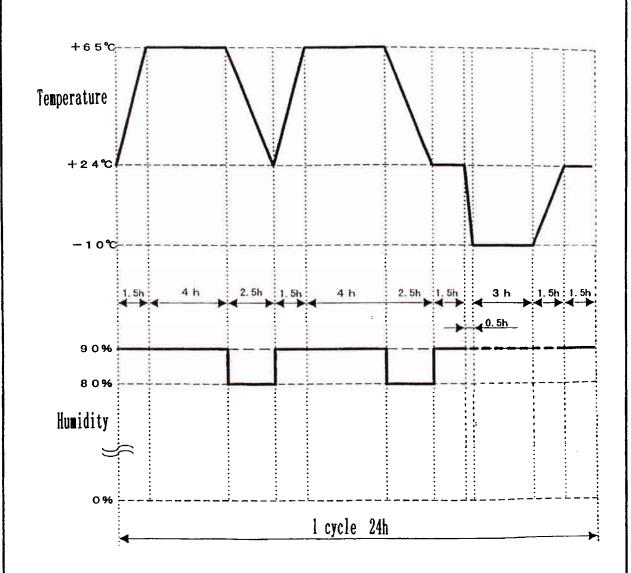
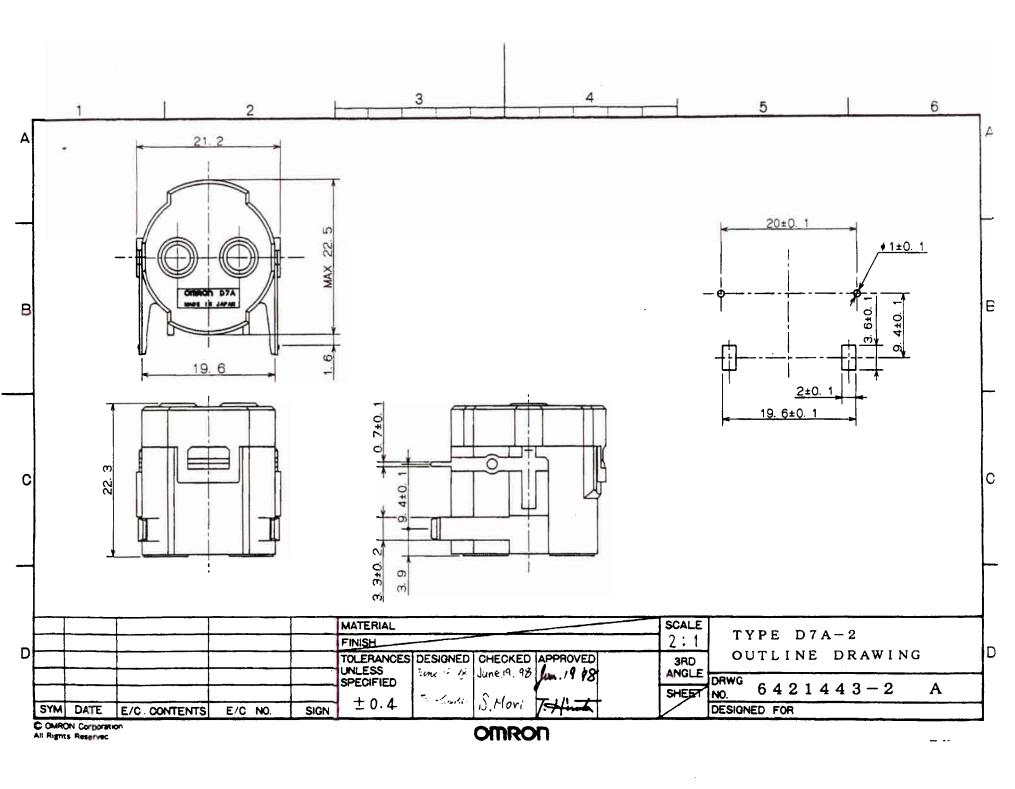


Figure 2







OOO «ЛайфЭлектроникс" "LifeElectronics" LLC

ИНН 7805602321 КПП 780501001 P/C 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 3010181090000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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